2012

See https://www.spaceweather.com https://www.solarmonitor.org

ftp://ftp.sec.noaa.gov/pub/warehouse/2012/2012_plots/proton/
ftp://ftp.sec.noaa.gov/pub/warehouse/2012/2012_plots/xray/

1 Jan

A Statistical Study of Solar Filament Eruptions That Forms High-Speed Coronal Mass Ejections
Peng **Zou**, Chaowei Jiang, Fengsi Wei, Pingbing Zuo, Yi Wang
ApJ **2019**
https://arxiv.org/pdf/1908.08650.pdf

A New Automatic Tool for CME Detection and Tracking with Machine Learning Techniques
Pengyu **Wang**, Yan Zhang, Li Feng, Hanqing Yuan, Yuan Gan, Shuting Li, Lei Lu, Beili Ying, Weiqun Gan, Hui Li
ApJS **2019**
https://arxiv.org/pdf/1907.08798.pdf

Magnetic reconnection between a solar filament and nearby coronal loops
Leping **Li**, Jun Zhang, Hardi Peter, Eric Priest, Huadong Chen, Lijia Guo, Feng Chen, Duncan Mackay
Nature Physics **2016**
http://arxiv.org/pdf/1605.03320v1.pdf

1-2 Jan

STEREO Observations of Interplanetary Coronal Mass Ejections in 2007–2016
L. K. Jian1,2, C. T. Russell3,4, J. G. Luhmann5, and A. B. Galvin6,7
2018 ApJ 855 114
http://sci-hub.tw/http://iopscience.iop.org/0004-637X/855/2/114/

2 Jan

Evolution of the Radial Size and Expansion of Coronal Mass Ejections Investigated by Combining Remote and In Situ Observations
Bin **Zhuang**1, Noé Lugaz1, Nada Al-Haddad1, Réka M. Winslow1, Camilla Scolini1, Charles J. Farrugia1, and Antoinette B. Galvin1
2023 ApJ 952 7
https://iopscience.iop.org/article/10.3847/1538-4357/acd847/pdf
https://arxiv.org/pdf/2305.14339.pdf

Воздействие корональных выбросов на удаленные корональные лучи
Б. П. **Филиппов**1, П. Кайшап2, А. К. Сривастава2, О. В. Марценюк
АЖ, т.91, №8, С. 668-676, **2014**

Effects of coronal mass ejections on distant coronal streamers
B. P. **Filippov**, P. Kayshap, A. K. Srivastava, O. V. Martsenyuk
Astronomy Reports, August **2014**, Volume 58, Issue 8, pp 578-586
Astronomicheskii Zhurnal, **2014**, Vol. 91, No. 8, pp. 668–676.
http://arxiv.org/pdf/1408.4324v1.pdf

2-6 Jan

On the Contribution of Coronal Mass Ejections to the Heliospheric Magnetic Flux Budget on Different Time Scales
Réka M. **Winslow**1,1, Camilla Scolini1,2, Noé Lugaz1, Nathan A. Schwadron1,3, and Antoinette B. Galvin1
2023 ApJ 958 41
https://iopscience.iop.org/article/10.3847/1538-4357/ad02f2/pdf

Magnetism and the Invisible Man: The mysteries of coronal cavities **Review**
Sarah **Gibson**
IAU 300, eds. Schmieder, Malherbe, and Wu, 2014 (**2017**)
https://arxiv.org/pdf/1711.09254.pdf

3 Jan

Is There a Dynamic Difference between Stealthy and Standard Coronal Mass Ejections?
Beili **Ying**1, Alessandro Bemporad2,1, Li Feng1,3, Nariaki V. Nitta4, and Weiqun Gan1,3
2023 ApJ 942 3
https://iopscience.iop.org/article/10.3847/1538-4357/aca52c/pdf

Magnetic Flux Ropes in the Solar Corona: Structure and Evolution toward Eruption **Review**
Rui **Liu**
Research in Astron. Astrophys (RAA) **2020**
https://arxiv.org/pdf/2007.11363.pdf **File**

Toward Filament Segmentation Using Deep Neural Networks
Azim **Ahmadzadeh**, Sushant S. Mahajan, Dustin J. Kempton, Rafal A. Angryk, Shihao Ji
IEEE BigData **2019**
https://arxiv.org/pdf/1912.02743.pdf

4-6 Jan

FIP Bias Evolution in a Decaying Active Region
D. **Baker**, D. H. Brooks, P. Démoulin, S. L. Yardley, L. van Driel-Gesztelyi, D. M. Long, L. M. Green
2015
http://arxiv.org/pdf/1501.07397v1.pdf

5 Jan 2012 - A magnetic **filament** in the sun's northern hemisphere erupted on Jan. 5th at approximately 1300 UT. A fairly **large filament eruption** to the north of region 11392 was recorded as a long duration C2.1 long duration event peaking at 12:38 UTC. Поглощение на **304 А.** Северный CME.

Morphological evidence for nanoflares heating warm loops in the solar corona
Y. **Bi**, J. J. Yang, Y. Qin, Z. P. Qiang, J. C. Hong, B. Yang, Z. Xu, H. Liu, K. F. Ji
A&A **2023**
https://arxiv.org/pdf/2309.10049.pdf

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections
N. **Gopalswamy**, H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C. Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi, N. V. Nitta, M. J. Aschwanden, D. P. Choudhary
E-print, Jan **2013**; Adv. Space Res.

6 Jan

Statistical Study of the Kinetic Features of Supra-arcade Downflows Detected from Multiple Solar Flares
Xiaoyan **Xie**1,2,3, Katharine K. Reeves2, Chengcai Shen2, and Joshua D. Ingram4,2
2022 ApJ 933 15
https://iopscience.iop.org/article/10.3847/1538-4357/ac695d/pdf

??? Understanding Problem Forecasts of ISEST Campaign Flare-CME Events
David **Webb**, Nariaki Nitta
Solar Physics October **2017**, 292:142 **File**

7 Jan
Identification of Low Coronal Sources of "Stealth" Coronal Mass Ejections Using New Image Processing Techniques
Nathalia **Alzate** and Huw Morgan
2017 ApJ 840 103
http://sci-hub.cc/10.3847/1538-4357/aa6caa

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

11 Jan – 04:56: C3.7 вспышка, **пересвет** на STEREO-A, A=15*2/313= 0,096

11-21 Jan
Solar coronal magnetic field extrapolation from synchronic data with AI-generated farside
Hyunjin **Jeong**, Yong-Jae Moon, Eunsu Park, Harim Lee
ApJ **2020**
https://arxiv.org/pdf/2010.07553.pdf

12 Jan
Negative bursts
Grechnev et al., PASJ, 2013

Traveling ionospheric disturbances as huge natural lenses: Solar radio emission focusing effect,
Koval, A., Y. Chen, A. Stanislavsky, and Q.-H. Zhang
(**2017**). J. Geophys. Res. Space Physics, 122 DOI: 10.1002/2017JA024080
http://sci-hub.cc/10.1002/2017JA024080

13 Jan – 06:16: C2.2 **пересвет** A=8*2/313= 0,05 ←16s 8s→ 06:11 A=7*2/313=0.0447

13 Jan
Solar Sources of 3He-rich Solar Energetic Particle Events in Solar Cycle 24
Nariaki V. **Nitta**, Glenn M. Mason, Linghua Wang, Christina M. S. Cohen, Mark E. Wiedenbeck
ApJ **2015**
http://arxiv.org/pdf/1505.06804v1.pdf

14 Jan – 13:21: M1.4 вспышка, **пересвет** на STEREO-B, B=14*2/282= 0,1

14 Jan

Thermal Structure of Current Sheets and Supra-arcade Downflows in the Solar Corona
Will J. **Hanneman**1,2 and Katharine K. Reeves
2014 ApJ 786 95

15-26 Jan

On the non-Kolmogorov nature of flare-productive solar active regions
Revati S. **Mandage**, R.T.James McAteer
ApJ **2016**
https://arxiv.org/pdf/1611.00830v1.pdf

16 Jan – 10:46: C5.5 вспышка, **пересвет** на STEREO-B, B=10*2/282= 0,07

16 Jan 2012 - Sunspot complex 1401-1402 erupted this morning at approximately 0400 UT, producing a C6-class LDE solar flare (SDO movie) and a bright CME

The Properties of Solar Energetic Particle Event-Associated Coronal Mass Ejections Reported in Different CME Catalogs
Ian G. **Richardson**, Tycho T. von Rosenvinge, Hilary V. Cane
Solar Phys. Volume 290, Issue 6, pp 1741-1759 **2015 File**
http://arxiv.org/pdf/1505.03071v1.pdf
https://sci-hub.ru/10.1007/s11207-015-0701-4

Thermal Structure of Current Sheets and Supra-arcade Downflows in the Solar Corona
Will J. **Hanneman**1,2 and Katharine K. Reeves
2014 ApJ 786 95

17 Jan – 05:01: M1.0 вспышка, **пересвет** на STEREO-B, B=15*2/283= 0,11

18 Jan – 19:16: M1.7 вспышка, **пересвет** на STEREO-B, B=18*2/283= 0,13

January 18: A partial halo CME was observed after a filament eruption in the southern hemisphere near the central meridian. Activity increased in the filament after 08:50 UTC until eruption several hours later.

A New Automatic Tool for CME Detection and Tracking with Machine Learning Techniques
Pengyu **Wang**, Yan Zhang, Li Feng, Hanqing Yuan, Yuan Gan, Shuting Li, Lei Lu, Beili Ying, Weiqun Gan, Hui Li
ApJS **2019**
https://arxiv.org/pdf/1907.08798.pdf

Forecasting propagation and evolution of CMEs in an operational setting: What has been learned
Yihua **Zheng**, Peter Macneice, Dusan Odstrcil, M. L. Mays, Lutz Rastaetter, Antti Pulkkinen, Aleksandre Taktakishvili, Michael Hesse, M. Masha Kuznetsova, Hyesook Lee and Anna Chulaki
Space Weather, Volume 11, Issue 10, pages 557–574, October **2013**
http://www.readcube.com/articles/10.1002/swe.20096?

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections
N. **Gopalswamy**, H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C. Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi, N. V. Nitta, M. J. Aschwanden, D. P. Choudhary
E-print, Jan **2013**; Adv. Space Res.

19 Jan – 12:56: C3.2 вспышка, **пересвет** на STEREO-A, A=9*2/313= 0,058

19 Jan 2012 - around 16:30 UT, producing an M3-class solar flare (N32E22) and a full-halo coronal mass ejection (CME). STEREO-B залимб. SEP

Improving the Arrival Time Estimates of Coronal Mass Ejections by Using Magnetohydrodynamic Ensemble Modeling, Heliospheric Imager data, and Machine Learning
Talwinder **Singh**, Bernard Benson, Syed A. Z. Raza, Tae K. Kim, Nikolai V. Pogorelov, William P. Smith, Charles N. Arge
2023
https://arxiv.org/pdf/2302.05588.pdf

Tracking the Source of Solar Type II Bursts through Comparisons of Simulations and Radio Data
Alexander M. **Hegedus** (1), Ward B. Manchester IV (1), Justin C. Kasper (1)
ApJ **2021**
https://arxiv.org/pdf/2102.07875.pdf

Repeated Coronal Condensations Caused by Magnetic Reconnection between Solar Coronal Loops
Leping **Li**1,2,3, Hardi Peter4, Lakshmi Pradeep Chitta4, Jun Zhang1,3, Jiangtao Su1,3, Hongqiang Song2, Yijun Hou1,3, and Chun Xia5
2019 ApJ 884 34
https://doi.org/10.3847/1538-4357/ab4134

Quasi-periodic fast propagating magnetoacoustic waves during the magnetic reconnection between solar coronal loops
Leping **Li**, Jun Zhang, Hardi Peter, Lakshmi Pradeep Chitta, Jiangtao Su, Hongqiang Song, Chun Xia, Yijun Hou
ApJL **2018**
https://arxiv.org/pdf/1811.08553.pdf

Coronal Condensations Caused by Magnetic Reconnection between Solar Coronal Loops
Leping **Li**1,2,3, Jun Zhang1,3, Hardi Peter4, Lakshmi Pradeep Chitta4, Jiangtao Su1,3, Chun Xia5,6, Hongqiang Song2, and Yijun Hou1,
2018 ApJL 864 L4
http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/2041-8213/aad90a/meta

Plasma diagnostics of coronal dimming events
Kamalam **Vanninathan**, Astrid M. Veronig, Karin Dissauer, Manuela Temmer
ApJ **2018**
https://arxiv.org/pdf/1802.06152.pdf

Origin of Radio Enhancements in Type II Bursts in the Outer Corona
Firas **Al-Hamadani**, Silja Pohjolainen, Eino Valtonen
Solar Physics September **2017**, 292:127
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1148-6.pdf

On the Spatial Distribution of Element Abundances and Ionization States in Solar Energetic-Particle Events
Donald V. **Reames**
Solar Phys. **2017**
https://arxiv.org/pdf/1705.07471.pdf

Comparison of CME/shock propagation models with heliospheric imaging and in situ observations
Xinhua **Zhao**, Ying D. Liu, Bernd Inhester, Xueshang Feng, Thomas Wiegelmann, Lei Lu
ApJS **2016**
http://arxiv.org/pdf/1607.05533v1.pdf

A Study of the 2012 January 19 Complex Type II Radio Burst Using Wind, SOHO, and STEREO Observations
T.B. **Teklu**, A.V. Gholap, N. Gopalswamy, S. Yashiro, P. Mäkelä, S. Akiyama, N. Thakur, H. Xie
URSI Asia-Pacific Radio Science Conference in Seoul, August 21-25, **2016**
http://arxiv.org/pdf/1605.09644v1.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

Dynamics of the Transition Corona
Sophie **Masson**1,2, Patrick McCauley3, Leon Golub3, Katharine K. Reeves3, and Edward E. DeLuca
2014 ApJ 787 145
http://arxiv.org/pdf/1301.0740v2.pdf

Connecting speeds, directions and arrival times of 22 coronal mass ejections from the Sun to 1 AU
C. **Möstl**, K. Amla, J. R. Hall, P. C. Liewer, E. M. De Jong, R. C. Colaninno, A. M. Veronig, T. Rollett, M. Temmer, V. Peinhart, J. A. Davies, N. Lugaz, Y. D. Liu, C.J. Farrugia, J. G. Luhmann, B. Vršnak, R. A. Harrison, A. B. Galvin
ApJ, **2014**
http://arxiv.org/pdf/1404.3579v1.pdf

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study†
H. **Xie**, O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades
JGR, **2013, File**

ON SUN-TO-EARTH PROPAGATION OF CORONAL MASS EJECTIONS
Ying D. **Liu**1,2, Janet G. Luhmann2, Noé Lugaz3, Christian Möstl2,4, Jackie A. Davies5, Stuart D. Bale2, and Robert P. Lin
2013 ApJ 769 45, **File**

19-23 Jan
Webb_ISEST (International Study for Earth-Affecting Solar Transients) _MM WG4 Campaign Events_2014, File
See http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_ICME%5CCME_Lists

20 Jan
Tracking Solar Phenomena from the SDO
Dustin J. **Kempton**, Michael A. Schuh, and Rafal A. Angryk
2018 ApJ 869 54
sci-hub.tw/10.3847/1538-4357/aae9e9

Three-Year Global Survey of Coronal Null Points from Potential-Field-Source-Surface (PFSS) Modeling and Solar Dynamics Observatory (SDO) Observations
Michael **Freed**, Dana Longcope, David McKenize
Solar Physics, **2014**
http://arxiv.org/pdf/1410.4493v1.pdf

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections
N. **Gopalswamy**, H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C. Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi, N. V. Nitta, M. J. Aschwanden, D. P. Choudhary
E-print, Jan **2013**; Adv. Space Res.

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

21 Jan

Analysis of signal to noise ratio in coronagraph observations of coronal mass ejections
Johannes **Hinrichs**, Jackie A. Davies, Matthew J. West, Volker Bothmer, Bram Bourgoignie, Chris J. Eyles, Philipp Huke, Piers Jiggens, Bogdan Nicula and James Tappin
J. Space Weather Space Clim. **2021**, 11, 11
https://doi.org/10.1051/swsc/2020070
https://www.swsc-journal.org/articles/swsc/pdf/2021/01/swsc200025.pdf

Dynamics of a Multi-Thermal Loop in the Solar Corona
G. **Nistico**, S. Anfinogentov, and V. M. Nakariakov
E-print, July **2014**; A&A
http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/nistico/publications/paper_multi_thermal_loop.pdf

22 Jan - ~14, NW **filament eruption**
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

The radial speed-expansion speed relation for Earth-directed CMEs
P. **Mäkelä**, N. Gopalswamy, S. Yashiro
Space Weather Volume 14, Issue 5 May **2016** Pages 368–378 **File**
http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf

Forecasting propagation and evolution of CMEs in an operational setting: What has been learned
Yihua **Zheng**, Peter Macneice, Dusan Odstrcil, M. L. Mays, Lutz Rastaetter, Antti Pulkkinen, Aleksandre Taktakishvili, Michael Hesse, M. Masha Kuznetsova, Hyesook Lee and Anna Chulaki
Space Weather, Volume 11, Issue 10, pages 557–574, October **2013**
http://www.readcube.com/articles/10.1002/swe.20096?

22-23 Jan – форбуш и буря от эрупции 19-ого, Dst~-80 nT

Refined Modeling of Geoeffective Fast Halo CMEs During Solar Cycle 24

E. **Yordanova**, M. Temmer, M. Dumbović, C. Scolini, E. Paouris, A. L. E. Werner, A. P. Dimmock, L. Sorriso-Valvo
Space Weather Volume22, Issue1 e2023SW003497 **2024**
https://doi.org/10.1029/2023SW003497
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2023SW003497

23 Jan – 04:16: M8.7 **пересвет** A=40,5*2/312= 0,26 ←16s 8s→A=40.5/312=0.13
широкая

23 Jan -03:45, M9 NNW **N28W21 вспышка, мощный микроволновый всплеск, большие длительные протоны с мягким спектром Prolonged gamma**
First a long duration M1.1 event peaked near 03:05 UTC, an event which may have triggered a major M8.7 long duration event peaking at 03:59 UTC. These events were associated with a huge CME in STEREO imagery and what appears to be a strong proton event.
Two halo CMEs were observed after the M1.1 and M8.7 LDEs in region 11402. The presence of two CMEs was observable in LASCO imagery, although it is likely the CMEs will have merged before reaching Earth.

CORHEL-CME: An Interactive Tool For Modeling Solar Eruptions
Jon **Linker**, Tibor Torok, Cooper Downs, Ronald Caplan, Viacheslav Titov, Andres Reyes, Roberto Lionello, Pete Riley
Journal of Physics Conference Series **2023**
https://arxiv.org/pdf/2311.03596.pdf

Data-constrained Magnetohydrodynamic Simulation of an Intermediate Solar Filament Eruption
Yang **Guo**, Jinhan Guo, Yiwei Ni, M. D. Ding, P. F. Chen, Chun Xia, Rony Keppens, Kai E. Yang
ApJ **2023**
https://arxiv.org/pdf/2309.01325.pdf

Speed and Acceleration of CMEs Associated with Sustained Gamma-Ray Emission Events Observed by Fermi/LAT
P. **Mäkelä**, N. Gopalswamy, S. Akiyama, H. Xie, S. Yashiro
ApJ **2023**
https://arxiv.org/pdf/2307.05585.pdf **File**

Solar Energetic Particles: Spatial Extent and Implications of the H and He Abundances Review
Donald V. **Reames**
Space Sci. Rev **2022**
https://arxiv.org/ftp/arxiv/papers/2205/2205.06883.pdf

Global energetics of solar flares. XIII. The Neupert effect and acceleration of coronal mass ejections
Markus J. **Aschwanden**
ApJ **2021**
https://arxiv.org/pdf/2112.07759.pdf File

The Common Origin of High-energy Protons in Solar Energetic Particle Events and Sustained Gamma-ray Emission from the Sun
N. **Gopalswamy**, S. Yashiro, P. Makela, H. Xie, S. Akiyama
ApJ **2021**
https://arxiv.org/ftp/arxiv/papers/2105/2105.01206.pdf

Energetic Proton Back-Precipitation onto the Solar Atmosphere in Relation to Long-Duration Gamma-Ray Flares
Adam **Hutchinson**, Silvia Dalla, Timo Laitinen, Georgia A. de Nolfo, Alessandro Bruno, James M. Ryan
ApJ **2020**
https://arxiv.org/pdf/2012.05146.pdf **File**

Small Size Ground Level Enhancements During Solar Cycle 24
Leonty I. **Miroshnichenko**, Chuan Li & Victor G. Yanke
Solar Physics volume 295, Article number: 102 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01659-3.pdf

Virtues of Including Hydrogen in the Patterns of Element Abundances in Solar Energetic Particles
Donald V. **Reames**
Solar Phys. **2020**
https://arxiv.org/ftp/arxiv/papers/2004/2004.12229.pdf

Initiation and Early Kinematic Evolution of Solar Eruptions
X. **Cheng**, J. Zhang, B. Kliem, T. {Török}, C. Xing, Z. J. Zhou, B. Inhester, M. D. Ding
ApJ **2020**
https://arxiv.org/pdf/2004.03790.pdf

Fermi Large Area Telescope observations of solar flares during the 24th solar cycle
Melissa **Pesce-Rollins**
Presentation at the Fleishman Webinar Nov. 13, **2019**
http://www.ioffe.ru/LEA/SF_AR/files/FermiLATSolarFlares_webinar.pdf

A Study of Pre-Flare Solar Coronal Magnetic Fields: Magnetic Flux Ropes
Aiying **Duan**, Chaowei Jiang, Wen He, Xueshang Feng, Peng Zou, Jun Cui
ApJ **2019**
https://arxiv.org/pdf/1908.08643.pdf

On the Shock Source of Sustained Gamma-Ray Emission from the Sun
N **Gopalswamy**, P. Makela, S. Yashiro, A. Lara, S. Akiyama, H. Xie
18th International Astrophysics Conference, Pasadena, CA, February 18 to 22, 2019 **2019**
https://arxiv.org/ftp/arxiv/papers/1907/1907.13318.pdf **File**

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation
Nishtha **Sachdeva**
Ph.D. Thesis **2019**
https://arxiv.org/pdf/1907.12673.pdf

Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles
G. A. **de Nolfo**, A. Bruno, J. M. Ryan, S. Dalla, J. Giacalone, I. G. Richardson, E. R. Christian, S. J. Stochaj, G. A. Bazilevskaya, M. Boezio, M. Martucci, V. V. Mikhailov, R. Munini
ApJ **2019**
https://arxiv.org/pdf/1905.12878.pdf **File**

Hydrogen and the Abundances of Elements in Gradual Solar Energetic-Particle Events
Donald V. **Reames**
Solar Phys. **2019**
https://arxiv.org/ftp/arxiv/papers/1902/1902.03208.pdf

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE **Thesis Catalog (2010-2017)**
Allafort, A. J.
(**2018**). PhD thesis, Stanford Univ. **File**
https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

Magnetic Flux Reconnection in Flaring Active Regions with Sustained Gamma-Ray Emission
S. W. **Kahler**1, E. W. Cliver2, and M. Kazachenko3
2018 ApJ 868 81
sci-hub.tw/10.3847/1538-4357/aae9d8

Interplanetary Type II Radio Bursts from Wind/WAVES and Sustained Gamma-Ray Emission from Fermi/LAT: Evidence for Shock Source
Nat **Gopalswamy**1, Pertti Mäkelä1,2, Seiji Yashiro1,2, Alejandro Lara1,2, Hong Xie1,2, Sachiko Akiyama1,2, and Robert J. MacDowall1
2018 ApJL 868 L19
http://iopscience.iop.org/article/10.3847/2041-8213/aaef36/pdf **File**

Powerful solar flares in September 2017. Comparison with the largest flares in cycle 24
E. A. **Bruevich**, V. V. Bruevich
2018
https://arxiv.org/pdf/1807.01271.pdf

Modelling of Shock-Accelerated Gamma-Ray Events **Review**
Alexandr **Afanasiev**, Angels Aran, Rami Vainio, Alexis Rouillard, Pietro Zucca, David Lario, Suvi Barcewicz, Robert Siipola, Jens Pomoell, Blai Sanahuja, and Olga E. Malandraki
In: O.E. Malandraki, N.B. Crosby (eds.), Solar Particle Radiation Storms Forecasting and Analysis
Chapter 9, **2018**
https://link.springer.com/content/pdf/10.1007%2F978-3-319-60051-2.pdf
File Malandraki_Crosby_SEPs_Forecasting and Analysis_Book.pdf

X-Ray, Radio and SEP Observations of Relativistic Gamma-Ray Events **Review**
Karl-Ludwig **Klein**, Kostas Tziotziou, Pietro Zucca, Eino Valtonen, Nicole Vilmer, Olga E. Malandraki, Clarisse Hamadache, Bernd Heber, and Jürgen Kiener
In: O.E. Malandraki, N.B. Crosby (eds.), Solar Particle Radiation Storms Forecasting and Analysis
Chapter 8, **2018**
https://link.springer.com/content/pdf/10.1007%2F978-3-319-60051-2.pdf
File Malandraki_Crosby_SEPs_Forecasting and Analysis_Book.pdf

Relationship between Intensity of White-light Flares and Proton Flux of Solar Energetic Particles
Nengyi **Huang**1,2, Yan Xu1,2, and Haimin Wang
2018 Res. Notes AAS 2 7
http://iopscience.iop.org/article/10.3847/2515-5172/aaa602
https://arxiv.org/pdf/1801.04316.pdf

Characteristics of Sustained >100 γ-ray Emission Associated with Solar Flares
G. H. **Share**, R. J. Murphy, A. K. Tolbert, B. R. Dennis, S. M. White, R. A. Schwartz, and A. J. Tylka
ApJ Supplement **2017**
http://www.astro.umd.edu/~share/publications/share_2017.pdf **File**

Origin of Radio Enhancements in Type II Bursts in the Outer Corona
Firas **Al-Hamadani**, Silja Pohjolainen, Eino Valtonen
Solar Physics September **2017**, 292:127
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1148-6.pdf

On the Spatial Distribution of Element Abundances and Ionization States in Solar Energetic-Particle Events
Donald V. **Reames**
Solar Phys. **2017**
https://arxiv.org/pdf/1705.07471.pdf

Characterizing Solar Energetic Particle Event Profiles with Two-Parameter Fits
Stephen W. **Kahler**, Alan G. Ling
Solar Physics April **2017**, 292:59
http://link.springer.com/content/pdf/10.1007%2Fs11207-017-1085-4.pdf

Global Energetics of Solar Flares and CMEs: V. Energy Closure
Markus J. **Aschwanden**, Amir Campi, Christina M.S. Cohen, Gordon Holman, Ju Jing, Matthieu Kretzschmar, Eduard P. Kontar, James McTiernan, Richard A. Mewaldt, Aidan O'Flannagain, Ian G. Richardson, Daniel Ryan, Harry P. Warren, Yan Xu
ApJ **2017**
https://arxiv.org/pdf/1701.01176v1.pdf

Solar Energetic Particle Events with Protons Above 500 MeV Between 1995 and 2015 Measured with SOHO/EPHIN
P. Kühl, N. Dresing, B. Heber, A. Klassen
Solar Physics January 2017, 292:10
http://link.springer.com/article/10.1007/s11207-016-1033-8

Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions
Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
ApJ **2016**
https://arxiv.org/pdf/1611.05047v1.pdf

Segmental interpolating spectra for solar particle events and in situ validation
S. **Hu**, C. Zeitlin, W. Atwell, D. Fry, J.E. Barzilla, E. Semones
Space Weather Volume 14, Issue 10 October **2016** Pages 742–753
http://sci-hub.cc/doi/10.1002/2016SW001476

MAGNETO-FRICTIONAL MODELING OF CORONAL NONLINEAR FORCE-FREE FIELDS. II. APPLICATION TO OBSERVATIONS
Y. **Guo**1,2, C. Xia2, and R. Keppens1
2016 ApJ 828 83

Comparison of CME/shock propagation models with heliospheric imaging and in situ observations
Xinhua **Zhao**, Ying D. Liu, Bernd Inhester, Xueshang Feng, Thomas Wiegelmann, Lei Lu
ApJS **2016**
http://arxiv.org/pdf/1607.05533v1.pdf

Study of Solar Energetic Particle Associations with Coronal Extreme-ultraviolet Waves
Jinhye **Park**1, D. E. Innes2, R. Bucik2,3, Y.-J. Moon1,4, and S. W. Kahler
2015 ApJ 808 3

See presentation
https://community.apan.org/cfs-file.ashx/__key/telligent-evolution-components-attachments/13-7784-00-00-00-14-46-02/Park.pdf

The Properties of Solar Energetic Particle Event-Associated Coronal Mass Ejections Reported in Different CME Catalogs
Ian G. **Richardson**, Tycho T. von Rosenvinge, Hilary V. Cane
Solar Phys. Volume 290, Issue 6, pp 1741-1759 **2015 File**
http://arxiv.org/pdf/1505.03071v1.pdf
https://sci-hub.ru/10.1007/s11207-015-0701-4

Observation of solar high energy gamma and X-ray emission and solar energetic particles
Alexei **Struminsky**, Weiqun Gan
24th European Cosmic Ray Symposium, Kiel, September 2014, **2015**

Empirical Relationship Between CME Parameters and Geo-effectiveness of Halo CMEs in the Rising Phase of Solar Cycle 24 (2011 – 2013)
A. **Shanmugaraju**, M. Syed Ibrahim, Y.-J. Moon, A. Mujiber Rahman, S. Umapathy
Solar Phys. **2015; File**

Proton activity of the Sun in current solar cycle 24
Chuan **Li**, Leonty Miroshnichenko, Cheng Fang
RAA (Research in Astronomy and Astrophysics), **2014**
http://arxiv.org/pdf/1408.2308v1.pdf

Statistical survey of widely spread out solar electron events observed with STEREO and ACE with special attention to anisotropies
N. **Dresing**, R. G?mez-Herrero, B. Heber, A. Klassen, O. Malandraki , W. Dr?ge , and Y. Kartavykh
E-print, July 2014; A&A, Volume 567, A27, July **2014; File**

New Aspects of a Lid-removal Mechanism in the Onset of an Eruption Sequence that Produced a Large Solar Energetic Particle (SEP) Event
Alphonse C. **Sterling**1, Ronald L. Moore1,2, David A. Falconer1,2,3, and Javon M. Knox
2014 ApJ 788 L20; **File**

Connecting speeds, directions and arrival times of 22 coronal mass ejections from the Sun to 1 AU
C. **Möstl**, K. Amla, J. R. Hall, P. C. Liewer, E. M. De Jong, R. C. Colaninno, A. M. Veronig, T. Rollett, M. Temmer, V. Peinhart, J. A. Davies, N. Lugaz, Y. D. Liu, C.J. Farrugia, J. G. Luhmann, B. Vršnak, R. A. Harrison, A. B. Galvin
ApJ, **2014**
http://arxiv.org/pdf/1404.3579v1.pdf

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study†
H. **Xie**, O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades
JGR, **2013, File**

СОЛНЕЧНЫЕ ПРОТОННЫЕ СОБЫТИЯ В КОНЦЕ 23-ГО И НАЧАЛЕ 24-ГО СОЛНЕЧНЫХ ЦИКЛОВ, ЗАРЕГИСТРИРОВАННЫЕ В ЭКСПЕРИМЕНТЕ ПАМЕЛА
Базилевская Г.А., Майоров А.Г., Малахов В.В., Михайлов В.В., Адриани О., Барбарино Д.С., Белотти Р., Боецио М., Богомолов Э.А., Бонвичини В., Бонджи М., Бонеки Л., Борисов С.В., Боттаи С., Бруно А., Вакки А., Вануччини Е., Васильев Г.И., Воронов С.А., Ву Ю. и др.
Известия РАН, Серия физическая, том 77, № 5, с. 557–560, **2013**.

Investigating Two Successive Flux Rope Eruptions In A Solar Active Region
X. **Cheng**, J. Zhang, M. D. Ding, O. Olmedo, X. D. Sun, Y. Guo & Y. Liu
E-print, April **2013**; ApJL **2013** ApJ 769 L25

ON SUN-TO-EARTH PROPAGATION OF CORONAL MASS EJECTIONS
Ying D. **Liu**1,2, Janet G. Luhmann2, Noé Lugaz3, Christian Möstl2,4, Jackie A. Davies5, Stuart D. Bale2, and Robert P. Lin
2013 ApJ 769 45, **File**

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES
M. **Ackermann**2, M. Ajello3, A. Albert4, A. Allafort5,1, L. Baldini6, G. Barbiellini7,8, D. Bastieri et al. **Fermi-LAT collaboration**
E-print, April **2013, File**; ApJ

Eruptions of two flux ropes observed by SDO and STEREO
Leping **Li**, and Jun Zhang
E-print, March **2013**; A&A Letter

Solar energetic particle events in 2006-2012 in the PAMELA experiment data
G A **Bazilevskaya** et al
2013 J. Phys.: Conf. Ser. 409 012188

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

Solar filament eruptions and their physical role in triggering Coronal Mass Ejections
Schmieder B., Demoulin P., Aulanier G. Review
E-print, Dec **2012**, **File**; Advances in Space Research, 51 (**2013**) 1967-1980 arXiv:1212.4014

MODELING MAGNETIC FIELD STRUCTURE OF A SOLAR ACTIVE REGION CORONA USING NONLINEAR FORCE-FREE FIELDS IN SPHERICAL GEOMETRY
Y. **Guo**1,2, M. D. Ding1,2, Y. Liu3, X. D. Sun3, M. L. DeRosa4, and T. Wiegelmann
2012 ApJ 760 47

23-25 Jan
The SEVAN Worldwide network of particle detectors: 10 years of operation
A. **Chilingarian**, V. Babayan, T. Karapetyan, B. Mailyan, B. Sargsyan, M. Zazyan
Advances in Space Research, Volume 61, Issue 10, 15 May **2018**, Pages 2680-2696
http://sci-hub.tw/10.1016/j.asr.2018.02.030

23 Jan-1 Feb
Examination of the relationship between riometer-derived absorption and the integral proton flux in the context of modeling polar cap absorption
R. A. D. **Fiori**, D. W. Danskin
Space Weather Volume 14, Issue 11, Version of Record online: 15 NOV **2016**

23-24 Jan
Kilometric type II radio emissions in Wind/WAVES TNR data and association with interplanetary structures near Earth
Franco **Manini**, Hebe Cremades, Fernando M. López, Teresa Nieves-Chinchilla
Solar Phys. **2023**
https://arxiv.org/pdf/2311.08266.pdf

24 Jan
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

The radial speed-expansion speed relation for Earth-directed CMEs
P. **Mäkelä**, N. Gopalswamy, S. Yashiro
Space Weather Volume 14, Issue 5 May **2016** Pages 368–378 **File**
http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf

Type II and Type III Radio Bursts and their Correlation with Solar Energetic Proton Events
L.M. **Winter**, K. Ledbetter
ApJ **2015**
http://arxiv.org/pdf/1507.01620v1.pdf

25-27 Jan
Analysis of signal to noise ratio in coronagraph observations of coronal mass ejections
Johannes **Hinrichs**, Jackie A. Davies, Matthew J. West, Volker Bothmer, Bram Bourgoignie, Chris J. Eyles, Philipp Huke, Piers Jiggens, Bogdan Nicula and James Tappin
J. Space Weather Space Clim. **2021**, 11, 11
https://doi.org/10.1051/swsc/2020070
https://www.swsc-journal.org/articles/swsc/pdf/2021/01/swsc200025.pdf

26 Jan

Automatic Detection of Interplanetary Coronal Mass Ejections in Solar Wind In Situ Data
Hannah T. **Rüdisser**, Andreas Windisch, Ute V. Amerstorfer, Christian Möstl, Tanja Amerstorfer, Rachel L. Bailey, Martin A. Reiss
Space Weather **2022**
https://arxiv.org/pdf/2205.03578.pdf

Multi-viewpoint Coronal Mass Ejection Catalog Based on STEREO COR2 Observations
Angelos **Vourlidas**1,4, Laura A. Balmaceda2,5,6, Guillermo Stenborg3, and Alisson Dal Lago2
2017 ApJ 838 141 **File**
http://sci-hub.cc/10.3847/1538-4357/aa67f0

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

27 Jan – 18:50 – X1.7 **вспышка; пересвет на STEREO-A,** A=62*2/312=0,4

27 Jan - X1.7/1F flare at 18:37 UTC. The latter event was associated with **a radiation storm** (the above 10 MeV proton flux has so far peaked near 800 pfu) and a **large partial halo CME** off the northwest limb. **Prolonged gamma**

Automatic detection of solar flares observed at 45 GHz by the POEMAS telescope
Vanessa **Lessa**, Adriana Valio
Astronomy and Computing, **2023**, Volume 44, 100738
https://arxiv.org/pdf/2309.06536.pdf

О возможном различии в формировании корональных выбросов массы двух типов.
Еселевич В.Г., Еселевич М.В., Зимовец И.В.

СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 8. **2022**. № 2 С. 12–22.
DOI : 10.12737/szf-82202202
https://naukaru.ru/ru/storage/viewWindow/94294

Statistical Study of the Kinetic Features of Supra-arcade Downflows Detected from Multiple Solar Flares
Xiaoyan **Xie**1,2,3, Katharine K. Reeves2, Chengcai Shen2, and Joshua D. Ingram4,2
2022 ApJ 933 15
https://iopscience.iop.org/article/10.3847/1538-4357/ac695d/pdf

Reconstruction of the magnetic connection from Mercury to the solar corona during enhancements in the solar proton fluxes at Mercury
A. **Ippolito**1,2, C. Plainaki1, G. Zimbardo3, T. Alberti4, S. Massetti4, A. Milillo4 and S. Orsini4
A&A 660, A50 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/04/aa42328-21.pdf

Calibration of the GOES 6–16 high-energy proton detectors based on modelling of ground level enhancement energy spectra
Shaowen **Hu**1* and Edward Semones2
J. Space Weather Space Clim. **2022**, **12**, 5
https://www.swsc-journal.org/articles/swsc/pdf/2022/01/swsc210063.pdf
https://doi.org/10.1051/swsc/2022003

The Common Origin of High-energy Protons in Solar Energetic Particle Events and Sustained Gamma-ray Emission from the Sun
N. **Gopalswamy**, S. Yashiro, P. Makela, H. Xie, S. Akiyama
ApJ **2021**
https://arxiv.org/ftp/arxiv/papers/2105/2105.01206.pdf

Multiwavelength Analysis of the Kinematics of a Long Duration Flare-CME Event on 27 January 2012
G. **Selvarani**, S. Prasanna Subramanian, A. Shanmugaraju & K. Suresh
Solar Physics volume 295, Article number: 121 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01693-1.pdf

Small Size Ground Level Enhancements During Solar Cycle 24
Leonty I. **Miroshnichenko**, Chuan Li & Victor G. Yanke
Solar Physics volume 295, Article number: 102 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01659-3.pdf

Observations of Ray-Like Structures in Large-Scale Coronal Dimmings Produced by Limb CMEs
F. **Goryaev**, V. Slemzin, D. Rodkin
Solar Phys. **2020**
https://arxiv.org/pdf/2003.11326.pdf

Quasi-periodic pulsation detected in Lyman-alpha emission during solar flares
Dong **Li**, Lei Lu, Zongjun Ning, Li Feng, Weiqun Gan, Hui Li
ApJ **2020**
https://arxiv.org/pdf/2003.01877.pdf

A Solar Energetic Particle Removal Algorithm for the Compact Coronagraph
Nicholas A. **Crump**, Dennis G. Socker, and Dennis Wang
2019 Res. Notes AAS 3 183
https://iopscience.iop.org/article/10.3847/2515-5172/ab5f14

Особенности развития длительных потоков высокоэнергичного гамма-излучения на разных стадиях солнечных вспышек.
Минасянц Г.С., Минасянц Т.М., Томозов В.М.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 5. **2019**. № 3. С. 11–20
https://naukaru.ru/ru/storage/view/39748

On the Shock Source of Sustained Gamma-Ray Emission from the Sun
N **Gopalswamy**, P. Makela, S. Yashiro, A. Lara, S. Akiyama, H. Xie
18th International Astrophysics Conference, Pasadena, CA, February 18 to 22, 2019 **2019**
https://arxiv.org/ftp/arxiv/papers/1907/1907.13318.pdf **File**

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation
Nishtha **Sachdeva**
Ph.D. Thesis **2019**
https://arxiv.org/pdf/1907.12673.pdf

Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles
G. A. **de Nolfo**, A. Bruno, J. M. Ryan, S. Dalla, J. Giacalone, I. G. Richardson, E. R. Christian, S. J. Stochaj, G. A. Bazilevskaya, M. Boezio, M. Martucci, V. V. Mikhailov, R. Munini
ApJ **2019**
https://arxiv.org/pdf/1905.12878.pdf **File**

Non-equilibrium ionization effects on solar EUV and X-ray imaging observations
Jin-Yi **Lee**, John C. Raymond, Katharine K. Reeves, Chengcai Shen, Yong-Jae Moon, Yeon-Han Kim
ApJ **2019**
https://arxiv.org/pdf/1905.11632.pdf

СОЛНЕЧНЫЕ ПРОТОННЫЕ СОБЫТИЯ 6 И 10 СЕНТЯБРЯ 2017 Г.: МОМЕНТ ПЕРВОГО ПРИХОДА ПРОТОНОВ И ЭЛЕКТРОНОВ
Струминский А.Б.
Известия РАН Том: 83Номер: 5 Год: **2019** Страницы: 597-601

Temporal Evolution of Heavy-Ion Spectra in Solar Energetic Particle Events
Donald J. **Doran**, Silvia Dalla, Peter Zelina
Solar Physics May **2019**, 294:55
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1431-9.pdf

ОСОБЕННОСТИ ДИНАМИКИ УДАРНОЙ ВОЛНЫ, ВОЗБУЖДАЕМОЙ БЫСТРЫМ КОРОНАЛЬНЫМ ВЫБРОСОМ МАССЫ

ЕСЕЛЕВИЧ В.Г.*1, ЕСЕЛЕВИЧ М.В.1
Космические исследования Том: 57Номер: 3 Год: **2019** Страницы: 163-176

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE Thesis Catalog (2010-2017)
Allafort, A. J.
(**2018**). PhD thesis, Stanford Univ. **File**
https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

Fermi, Wind, and SOHO Observations of Sustained Gamma-Ray Emission from the Sun
N. **Gopalswamy**, P. Makela, S. Yashiro, A. Lara, H. Xie, S. Akiyama, R. J. MacDowall
Submitted to 2019 URSI Asia Pacific Radio Science Conference **2018**
https://arxiv.org/ftp/arxiv/papers/1810/1810.08958.pdf

Visibility and Origin of Compact Interplanetary Radio Type IV Bursts
Nasrin Talebpour **Sheshvan**, Silja Pohjolainen

Solar Phys. **2018**
https://arxiv.org/pdf/1810.09208.pdf

Frequency rising sub-THz emission from solar flare ribbons
E.P. **Kontar**, G.G. Motorina, N.L.S. Jeffrey, Y.T. Tsap, G.D. Fleishman, A.V. Stepanov
A&A **2018**
https://arxiv.org/pdf/1810.03922.pdf

Quantifying Turbulent Dynamics Found within the Plasma Sheets of Multiple Solar Flares
Michael S. **Freed**1,2 and David E. McKenzie1,3
2018 ApJ 866 29
http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/1538-4357/aadee4/meta

Investigation of energetic particle release using multi-point imaging and in situ observations
Bei **Zhu**, Ying D. Liu, Ryun-Young Kwon, Rui Wang
ApJ **2018**
https://arxiv.org/pdf/1808.04934.pdf

The magnetic Rayleigh–Taylor instability in solar prominences **Review**
Andrew **Hillier**
Reviews of Modern Plasma Physics December **2018**, 2:1
https://link.springer.com/content/pdf/10.1007%2Fs41614-017-0013-2.pdf

A Statistical Study to Determine the Origin of Long-Duration Gamma-ray Flares
Lisa M. **Winter**, Valerie Bernstein, Nicola Omodei, Melissa Pesce-Rollins
ApJ **2018**
https://arxiv.org/pdf/1807.06001.pdf **File**

Characteristics of Sustained >100 γ-ray Emission Associated with Solar Flares
G. H. **Share**, R. J. Murphy, A. K. Tolbert, B. R. Dennis, S. M. White, R. A. Schwartz, and A. J. Tylka
ApJ Supplement **2017**
http://www.astro.umd.edu/~share/publications/share_2017.pdf **File**

Heating of an erupting prominence associated with a solar coronal mass ejection on 2012 January 27
Jin-Yi **Lee**, John C. Raymond, Katharine K. Reeves, Yong-Jae Moon, Kap-Sung Kim
ApJ **2017**
https://arxiv.org/pdf/1706.09116.pdf

Characterizing Solar Energetic Particle Event Profiles with Two-Parameter Fits
Stephen W. **Kahler**, Alan G. Ling
Solar Physics April **2017**, 292:59
http://link.springer.com/content/pdf/10.1007%2Fs11207-017-1085-4.pdf

Which Bow Shock Theory, Gasdynamic or Magnetohydrodynamic, Better Explains CME Stand-off Distance Ratios from LASCO-C2 Observations ?
Jae-Ok **Lee**1,2, Y.-J. Moon1, Jin-Yi Lee3, R.-S. Kim2, and K.-S. Cho2
2017 ApJ 838 70
http://sci-hub.cc/10.3847/1538-4357/aa656f

Automated detection of coronal mass ejections in three-dimensions using multi-viewpoint observations
J. **Hutton** and H. Morgan
A&A 599, A68 (**2017**)
http://www.aanda.org/articles/aa/pdf/2017/03/aa29516-16.pdf

Global Energetics of Solar Flares and CMEs: V. Energy Closure
Markus J. **Aschwanden**, Amir Campi, Christina M.S. Cohen, Gordon Holman, Ju Jing, Matthieu Kretzschmar, Eduard P. Kontar, James McTiernan, Richard A. Mewaldt, Aidan O'Flannagain, Ian G. Richardson, Daniel Ryan, Harry P. Warren, Yan Xu
ApJ **2017**
https://arxiv.org/pdf/1701.01176v1.pdf

Spectral Trends of Solar Bursts at Sub-THz Frequencies
L. O. T. **Fernandes,** P. Kaufmann, E. Correia, C. G. Giménez de Castro, A. S. Kudaka, A. Marun, P. Pereyra, J.-P. Raulin, A. B. M. Valio
Solar Physics January **2017**, 292:21
http://sci-hub.cc/10.1007/s11207-016-1043-6

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. II. THE CASE FOR ABSENT FILAMENTS
T. A. **Howard**1, C. E. DeForest1, U. G. Schneck2, and C. R. Alden
2017 ApJ 834 86 DOI 10.3847/1538-4357/834/1/86
http://c.brightcove.com/article/10.3847/1538-4357/834/1/86/pdf
http://iopscience.iop.org.sci-hub.cc/0004-637X/834/1/86/

Energy dependence of SEP electron and proton onset times
H. Xie, P. Mäkelä, N. Gopalswamy, O. C. St. Cyr
JGR Volume 121, Issue 7 July 2016 Pages 6168–6183
http://arxiv.org/pdf/1609.08171v1.pdf

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics
Markus J. Aschwanden
ApJ 2016
http://arxiv.org/pdf/1605.04952v1.pdf File
http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

Interplanetary Type IV Bursts
Alexander **Hillaris**, Constantine Bouratzis, Alexander Nindos
Solar Physics **2016**
http://arxiv.org/pdf/1604.07677v1.pdf **File**

Dark Post-Flare Loops Observed by Solar Dynamics Observatory
Qiao **Song**, Jing-Song Wang, Xueshang Feng, Xiaoxin Zhang
ApJ **2016**
http://arxiv.org/pdf/1604.01510v1.pdf

Possible ground level enhancements at the beginning of the maximum of Solar Cycle 24.
Belov, A., Eroshenko, E., Kryakunova, O., Nikolayevskiy, N., Malimbayev,
A., Tsepakina, I., Yanke, V.,
Aug. 2015. J. Phys. Conf. Ser. 632 (1), 012063.
http://iopscience.iop.org/article/10.1088/1742-6596/632/1/012063/pdf

Thermodynamic Spectrum of Solar Flares Based on SDO/EVE Observations: Techniques and First Results
Yuming **Wang**, Zhenjun Zhou, Jie Zhang, Kai Liu, Rui Liu, Chenglong Shen, Phillip C. Chamberlin
2015
http://arxiv.org/pdf/1507.08895v1.pdf

High-energy solar particle events in cycle 24

Nat **Gopalswamy**, Pertti Makela, Seiji Yashiro, Hong Xie, Sachiko Akiyama, Neeharika Thakur
The 14th International Astrophysics Conference held in Tampa, FL during April 24-29, 2015. Accepted for publication in Journal of Physics: Conference Series (JPCS). edited by G. Zank, **2015**
http://arxiv.org/ftp/arxiv/papers/1507/1507.06162.pdf; **File**

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations
A. **Nindos**, S. Patsourakos, A. Vourlidas, C. Tagikas
ApJ **2015**
http://arxiv.org/pdf/1507.03766v1.pdf

Extreme Ultraviolet Imaging of Three-dimensional Magnetic Reconnection in a Solar Eruption
J. Q. **Sun**, X. Cheng, M. D. Ding, Y. Guo, E. R. Priest, C. E. Parnell, S. J. Edwards, J. Zhang, P. F. Chen,C. Fang
Nature Communications 6, Article number: 7598, **2015**
http://arxiv.org/pdf/1506.08255v1.pdf

Interplanetary particle transport simulation for warning system for aviation exposure to solar energetic particles
Yûki **Kubo**, Ryuho Kataoka, Tatsuhiko Sato
Earth, Planets and Space **2015**
http://arxiv.org/pdf/1506.00825v1.pdf

A Simple Way to Estimate the Soft X-ray Class of Far-Side Solar Flares Observed with STEREO/EUVI
I.M. Chertok (1), A.V. Belov (1), V.V. Grechnev (2)
Solar Phys. **2015**

First Taste of Hot Channel in Interplanetary Space
H. Q. **Song**1, J. Zhang2, Y. Chen1, X. Cheng3, G. Li4, and Y. M. Wang
2015 ApJ 803 96
http://arxiv.org/pdf/1502.04408v1.pdf

Observation of solar high energy gamma and X-ray emission and solar energetic particles
Alexei **Struminsky**, Weiqun Gan
24th European Cosmic Ray Symposium, Kiel, September 2014, **2015**

Proton activity of the Sun in current solar cycle 24
Chuan **Li**, Leonty Miroshnichenko, Cheng Fang
RAA (Research in Astronomy and Astrophysics), **2014**
http://arxiv.org/pdf/1408.2308v1.pdf

Thermal Structure of Current Sheets and Supra-arcade Downflows in the Solar Corona
Will J. **Hanneman**1,2 and Katharine K. Reeves
2014 ApJ 786 95

Emission Height and Temperature Distribution of White-Light Emission Observed by Hinode/SOT from the 2012 January 27 X-class Solar Flare
Kyoko **Watanabe**, Toshifumi Shimizu, Satoshi Masuda, Kiyoshi Ichimoto, and Masanori Ohno
E-print, Oct **2013**; ApJ, 776, 123 (**2013**)

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study†
H. **Xie**, O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades
JGR, **2013, File**

СОЛНЕЧНЫЕ ПРОТОННЫЕ СОБЫТИЯ В КОНЦЕ 23-ГО И НАЧАЛЕ 24-ГО СОЛНЕЧНЫХ ЦИКЛОВ, ЗАРЕГИСТРИРОВАННЫЕ В ЭКСПЕРИМЕНТЕ ПАМЕЛА
Базилевская Г.А., Майоров А.Г., Малахов В.В., Михайлов В.В., Адриани О., Барбарино Д.С., Белотти Р., Боецио М., Богомолов Э.А., Бонвичини В., Бонджи М., Бонеки Л., Борисов С.В., Боттаи С., Бруно А., Вакки А., Вануччини Е., Васильев Г.И., Воронов С.А., Ву Ю. и др.
Известия РАН, Серия физическая, том 77, № 5, с. 557–560, **2013**.

How Many CMEs Have Flux Ropes? Deciphering the Signatures of Shocks, Flux Ropes, and Prominences in Coronagraph Observations of CMEs **Review**
A. **Vourlidas**, B.J. Lynch, R.A. Howard, Y. Li
E-print, July **2012**; Solar Phys. **2013**, Volume 284, Issue 1, pp 179-201**, File**

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES
M. **Ackermann**2, M. Ajello3, A. Albert4, A. Allafort5,1, L. Baldini6, G. Barbiellini7,8, D. Bastieri et al. **Fermi-LAT collaboration**
E-print, April **2013, File**; ApJ

POlarization Emission of Millimeter Activity at the Sun (POEMAS): New Circular Polarization Solar Telescopes at Two Millimeter Wavelength Ranges
Adriana **Valio**, P. Kaufmann, C. G. Giménez de Castro, J.-P. Raulin, L. O. T. Fernandes, A. Marun
Solar Physics, April **2013**, Volume 283, Issue 2, pp 651-665

THE FIRST GROUND LEVEL ENHANCEMENT EVENT OF SOLAR CYCLE 24: DIRECT OBSERVATION OF SHOCK FORMATION AND PARTICLE RELEASE HEIGHTS
N. **Gopalswamy**1, H. Xie1,2, S. Akiyama1,2, S. Yashiro1,2, I. G. Usoskin3, and J. M. Davila
2013 ApJ 765 L30, preprint **File**

Solar energetic particle events in 2006-2012 in the PAMELA experiment data
G A **Bazilevskaya** et al
2013 J. Phys.: Conf. Ser. 409 012188

Large SEP events of 2012: proton onset and source function
Alexei **Struminsky**
2013 J. Phys.: Conf. Ser. 409 012148

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

The SEP event of 2012 January 27: proton onset and source function
Alexei Struminsky
ECRS_2012, sh_194.

27-31 Jan

Sun-to-Earth Observations and Characteristics of Isolated Earth-Impacting Interplanetary Coronal Mass Ejections During 2008 – 2014
D. **Maričić**, B. Vršnak, A. M. Veronig, M. Dumbović, F. Šterc, D. Roša, M. Karlica, D. Hržina & I. Romštajn
Solar Physics volume 295, Article number: 91 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01658-4.pdf

28 Jan

Implications of improved measurements of the highest energy SEPs by AMS and PAMELA **Review**
K. **Whitman**, , V. Bindi, C. Consolandi, C. Corti, B. Yamashiro
Advances in Space Research Volume 60, Issue 4, 15 August **2017**, Pages 768–780
http://sci-hub.cc/10.1016/j.asr.2017.02.042

Characterizing Solar Energetic Particle Event Profiles with Two-Parameter Fits
Stephen W. **Kahler**, Alan G. Ling
Solar Physics April **2017**, 292:59
http://link.springer.com/content/pdf/10.1007%2Fs11207-017-1085-4.pdf

Solar Activity from 2006 to 2014 and Short-term Forecasts of Solar Proton Events Using the ESPERTA Model
T. Alberti1, M. Laurenza2, E. W. Cliver3, M. Storini2, G. Consolini2, and F. Lepreti
2017 ApJ 838 59 File
http://sci-hub.cc/10.3847/1538-4357/aa5cb8

Solar Energetic Particle Events with Protons Above 500 MeV Between 1995 and 2015 Measured with SOHO/EPHIN
P. Kühl, N. Dresing, B. Heber, A. Klassen
Solar Physics January 2017, 292:10
http://link.springer.com/article/10.1007/s11207-016-1033-8

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

29 Jan

On the Role of Interplanetary Shocks in Accelerating MeV Electrons
N. Talebpour **Sheshvan**, N. Dresing, R. Vainio, A. Afanasiev, D. E. Morosan
A&A **2023**
https://arxiv.org/pdf/2301.05587.pdf

Proton Energy Spectra of Energetic Storm Particle Events and Relation with Shock Parameters and Turbulence
Federica **Chiappetta**1, Monica Laurenza2, Fabio Lepreti1,3, and Giuseppe Consolini2
2021 ApJ 915 8
https://doi.org/10.3847/1538-4357/abfe09
https://iopscience.iop.org/article/10.3847/1538-4357/abfe09/pdf

The chromospheric magnetic field in active regions derived from spectropolarimetry of Ca II 8542
Ali G. A. **Abdelkawy**, Abdelrazek M. K. Shaltout, M. M. Beheary
Global Journal of Advanced Research (GJAR) **2017**
https://arxiv.org/ftp/arxiv/papers/1712/1712.06828.pdf

Inference of chromospheric magnetic fields in a sunspot derived from spectropolarimetry of Ca II 8542 A
Ali G. A. **Abdelkawy**, Abdelrazek M. K. Shaltout, M. M. Beheary, T. A. Schad
Al-Azhar Bull. Sci. **2017**
https://arxiv.org/ftp/arxiv/papers/1712/1712.06829.pdf

He I vector magnetic field maps of a sunspot and its superpenumbral fine-structure

T.A. **Schad**, M.J. Penn, H. Lin, A. Tritschler
Solar Phys. **2015**
http://arxiv.org/pdf/1505.05567v1.pdf

31 Jan

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. II. THE CASE FOR ABSENT FILAMENTS
T. A. **Howard**1, C. E. DeForest1, U. G. Schneck2, and C. R. Alden
2017 ApJ 834 86 DOI 10.3847/1538-4357/834/1/86
http://c.brightcove.com/article/10.3847/1538-4357/834/1/86/pdf
http://iopscience.iop.org.sci-hub.cc/0004-637X/834/1/86/

Feb-Oct 2012

3-Phase Evolution of a Coronal Hole,
Part II: The Magnetic Field
S.G. **Heinemann**, S.J. Hofmeister, A.M. Veronig, M. Temmer
ApJ **2018**
https://arxiv.org/pdf/1806.10052.pdf

3-Phase Evolution of a Coronal Hole,
Part I: 360° remote sensing and in-situ observations
S.G. **Heinemann**, M. Temmer, S.J. Hofmeister, A.M. Veronig, S. Vennerstroem
ApJ **2018**
https://arxiv.org/pdf/1806.09495.pdf

1 Feb

Relationship Between Solar Coronal X-Ray Brightness and Active Region Magnetic Fields: A Study Using High Resolution Observations
Soumitra **Hazra**, Dibyendu Nandy, B Ravindra
2014
http://arxiv.org/pdf/1406.1683v1.pdf

4 Feb

Investigating Remote-sensing Techniques to Reveal Stealth Coronal Mass Ejections
Erika **Palmerio**, Nariaki V. Nitta, Tamitha Mulligan, Marilena Mierla, Jennifer O'Kane, Ian G. Richardson, Suvadip Sinha, Nandita Srivastava, Stephanie L. Yardley, Andrei N. Zhukov
Frontiers in Astronomy and Space Sciences **2021**
https://arxiv.org/pdf/2106.07571.pdf

Flare Induced Sunquake Signatures in the Ultraviolet as Observed by the Atmospheric Imaging Assembly
Sean **Quinn**, Mihalis Mathioudakis, Christopher J. Nelson, Ryan O. Milligan, Aaron Reid, David B. Jess
ApJ **2021**
https://arxiv.org/pdf/2105.05704.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

5-8 Feb

RATAN-600 Observations of Small Scale Structures with High Spectral Resolution
V. M. **Bogod**, C. E. Alissandrakis, T. I. Kaltman, S. Kh. Tokhchukova
Solar Phys., **2014**
http://arxiv.org/pdf/1403.7658v1.pdf

6 Feb – 19:56 – M1.0 **вспышка; пересвет на STEREO-A,** A=10*2/313=0,06 сомнительный

6 Feb

Magnetic field evolution around a fast-moving pore emerging from the quiet Sun⋆
Zhe **Xu**1,2,⋆⋆, Haisheng Ji1, Junchao Hong2, Kaifan Ji2 and Jiayan Yang2
A&A 660, A55 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/04/aa43021-21.pdf

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations
A. **Nindos**, S. Patsourakos, A. Vourlidas, C. Tagikas
ApJ **2015**
http://arxiv.org/pdf/1507.03766v1.pdf

7 Feb – 17:31: C6.8 вспышка, **пересвет** на STEREO-A, A=8*2/313= 0,051

8 Feb – 22:16: C2.9 **пересвет** A=22*2/313= 0,14 ←16s 8s→A=22/313= 0.07

8 Feb - ~04 UT, **SW eruption**.
Apparent Solar Tornado - Like Prominences
Olga **Panasenco**, Sara F. Martin, Marco Velli
E-print, July **2013**, Solar Phys. Volume 289, Issue 2, pp.603-622, **2014**
http://arxiv.org/pdf/1307.2303v1.pdf

9 Feb - During the late hours of Feb. 9th, a dark magnetic filament winding over the sun's northeastern limb rose up and exploded. The eruption hurled a bright CME.

Measuring three-dimensional shapes of stable solar prominences using stereoscopic observations from SDO and STEREO
Chengrui **Zhou**, Chun Xia, Yuandeng Shen
A&A **2021**
https://arxiv.org/pdf/2103.07111.pdf

C.J. **Schrijver**, A.M. Title, A.R. Yeates and M.L. DeRosa
E-print, May **2013, File;** ApJSS

10 Feb - >18 UT: заметная эрупция NE волокна, **304 A, a partial halo CME**

A magnetic cloud prediction model for forecasting space weather relevant properties of Earth-directed coronal mass ejections
Sanchita **Pal**, Dibyendu Nandy, Emilia K J Kilpua
A&A **2022**
https://arxiv.org/pdf/2203.05231.pdf

Chirality and Magnetic Configurations of Solar Filaments

Y. **Ouyang**, Y. H. Zhou, P. F. Chen, C. Fang
ApJ 835 94 **2017**
https://arxiv.org/pdf/1612.01054v1.pdf
http://sci-hub.cc/10.3847/1538-4357/835/1/94

Dark Ribbons Propagating and Sweeping across Extreme Ultraviolet Structures after Filament Eruptions
Junmin **Xiao**, Jun Zhang, Ting Li, and Shuhong Yang
2015 ApJ 805 25

11 Feb –

Observationally quantified reconnection providing a viable mechanism for active region coronal heating
Kai E. **Yang**, Dana W. Longcope, M. D. Ding & Yang Guo
Nature Communications volume 9, Article number: 692 (**2018**)
https://www.nature.com/articles/s41467-018-03056-8.pdf

Hα and EUV observations of a partial CME
Damian J. **Christian**, David B. Jess, Patrick Antolin, Mihalis Mathioudakis
ApJ, **2015**

12 Feb
Phase speed and frequency-dependent damping of longitudinal intensity oscillations in coronal loop structures observed with AIA/SDO
A. **Abedini**
Astrophysics and Space Science April **2016**, 361:133
http://arxiv.org/pdf/1603.04207v1.pdf

Microwave Type III Pair Bursts in Solar Flares
Baolin **Tan**, Hana Meszarosova, Marian Karlicky, Guangli Huang, Chengming Tan
ApJ **2016**
http://arxiv.org/pdf/1601.05312v1.pdf

14 Feb
Nonlinear Fast Magnetosonic Waves in Solar Prominence Pillars
Leon **Ofman**, Therese A. Kucera, C. Richard DeVore
ApJ **2023**
https://arxiv.org/pdf/2301.04503.pdf

18-19 Feb
The Source Locations of Major Flares and CMEs in the Emerging Active Regions
Lijuan **Liu**, Yuming Wang, Zhenjun Zhou, Jun Cui
ApJ **2021**
https://arxiv.org/pdf/2101.07452.pdf

18-22 Feb
Magnetic helicity and energy of emerging solar active regions and their erruptivity
E. **Liokati** (1), A. Nindos (1), Y. Liu (2)
A&A **2022**
https://arxiv.org/pdf/2202.04353.pdf

20 Feb – 05:11: C4.1 вспышка, **пересвет** на STEREO-B, B=9*2/289= 0,062

20 Feb

Statistical Analysis of Asymmetric Sunspot Decay Observed by Hinode
Shinsuke **Imada**, Shota Kato & Masashi Fujiyama
Solar Physics volume 295, Article number: 154 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01724-x.pdf

20-29 Feb

Comparison of JPL and ESP Solar Proton Fluence Models Using the Background-Subtracted RDSv2.0 Data Set
B. X. **Zhu**, K. Whitman, I. Jun, J. M. Ratliff
Space Weather Volume21, Issue3 e2022SW003311 **2023**
https://doi.org/10.1029/2022SW003311
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2022SW003311

22 Feb

Revisiting the formation mechanism for coronal rain from previous studies
Leping **Li**, Hardi Peter, Lakshmi Pradeep Chitta, Hongqiang Song
Research in Astronomy and Astrophysics **2021**
https://arxiv.org/pdf/2107.01339.pdf

Identification of Low Coronal Sources of "Stealth" Coronal Mass Ejections Using New Image Processing Techniques
Nathalia **Alzate** and Huw Morgan
2017 ApJ 840 103
http://sci-hub.cc/10.3847/1538-4357/aa6caa

Formation and evolution of coronal rain observed by SDO/AIA on February 22, 2012
Z. **Vashalomidze**, V. Kukhianidze, T.V. Zaqarashvili, R. Oliver, B. Shergelashvili, G. Ramishvili, S. Poedts, P. De Causmaecker
A&A **2015**
http://arxiv.org/pdf/1504.03471v1.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

Propagation of Interplanetary Coronal Mass Ejections: The Drag-Based Model
B. **Vršnak**, T. Žic, D. Vrbanec, M. Temmer, T. Rollett, C. Möstl, A. Veronig, J. Čalogović, M. Dumbović and S. Lulić, et al.
Solar Physics, July **2013**, Volume 285, Issue 1-2, pp 295-315, **File**

23 Feb

Low-Coronal Sources of "Stealth" Coronal Mass Ejections
Nathalia **Alzate** & Huw Morgan
UKSP Nuggets of **2016** #69
http://www.uksolphys.org/uksp-nugget/69-low-coronal-sources-of-stealth-coronal-mass-ejections/

Filament Shape Versus Coronal Potential Magnetic Field Structure
Boris **Filippov**
MNRAS **2015**
http://arxiv.org/pdf/1510.04546v1.pdf

Why does the apparent mass of a coronal mass ejection increase?
Li **Feng**, Yuming Wang, Fang Shen, Chenglong Shen, Bernd Inhester, Lei Lu, Weiqun Gan

ApJ **2015**
http://arxiv.org/pdf/1509.02246v1.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

24 Feb - >00 UT: **крупная эрупция NE волокна** (после заметной динамики в конце 23-его); большие димминги и аркада; крупный CME

A STEREO Survey of Magnetic Cloud Coronal Mass Ejections Observed at Earth in 2008--2012
Brian E. **Wood**, Chin-Chun Wu, Ronald P. Lepping, Teresa Nieves-Chinchilla, Russell A. Howard, Mark G. Linton, Dennis G. Socker
Astrophysical Journal Supplement **2017 File**
https://arxiv.org/pdf/1701.01682v1.pdf

Dark Ribbons Propagating and Sweeping across Extreme Ultraviolet Structures after Filament Eruptions
Junmin **Xiao**, Jun Zhang, Ting Li, and Shuhong Yang
2015 ApJ 805 25

25 Feb
Radio and X-ray Observations of Short-lived Episodes of Electron Acceleration in a Solar Microflare
Rohit **Sharma**, Marina Battaglia, Yingjie Luo, Bin Chen, Sijie Yu
ApJ **2020**
https://arxiv.org/pdf/2009.14497.pdf

29 Feb - On Feb. 29th, a farside sunspot erupted multiple times, hurling three CMEs over the sun's western limb.

Identification of Low Coronal Sources of "Stealth" Coronal Mass Ejections Using New Image Processing Techniques
Nathalia **Alzate** and Huw Morgan
2017 ApJ 840 103
http://sci-hub.cc/10.3847/1538-4357/aa6caa

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

March
Establishing a Stereoscopic Technique for Determining the Kinematic Properties of Solar Wind Transients based on a Generalized Self-similarly Expanding Circular Geometry
J. A. **Davies**1, C. H. Perry1, R. M. G. M. Trines2,3, R. A. Harrison1, N. Lugaz4, C. Möstl5,6,7, Y. D. Liu8, and K. Steed
2013 ApJ 777 167

2 March – 18:16: M3.3 **пересвет** B=33*2/291=0,23 ←16s 8s→ 17:56 B=21*2/291=

2 March - A big new sunspot is emerging over the sun's northeastern limb. It announced itself on March 2nd at 1746 UT with an M3-class solar flare.

2-15 March 'HURRICANE' SEASON

Hurricane Season in the Inner Heliosphere: Observations of Coronal Mass Ejections during Solar Maximum **Review**
A. **Vourlidas**
The 11th Hellenic Astronomical Conference, 8-12 September **2013**, Athens; **File of Presentation**
http://www.helas.gr/conf/2013/presentations.php

3 March

Rejuvenating Solar Flare Termination Shocks as Particle Accelerators
Bin **CHEN**
RHESSI Science Nuggets #378 **2020**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Rejuvenating_Solar_Flare_Termination_Shocks_as_Particle_Accelerators

Solar Flare Observations with the Karl G. Jansky Very Large Array
Bin **Chen**
Presentation at the Fleishman's Webinar, April **2020**
http://www.ioffe.ru/LEA/SF_AR/files/Chen_solarwebinar_20200401.pdf

Radio Spectroscopic Imaging of a Solar Flare Termination Shock: Split-Band Feature as Evidence for Shock Compression
Bin **Chen** (1), Chengcai Shen (2), Katharine K. Reeves (2), Fan Guo (3 and 4), Sijie Yu (1)
ApJ **2019**
https://arxiv.org/pdf/1908.09146.pdf

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation
Nishtha **Sachdeva**
Ph.D. Thesis **2019**
https://arxiv.org/pdf/1907.12673.pdf

Transient Inverse-FIP Plasma Composition Evolution within a Confined Solar Flare
Deborah **Baker**, Lidia van Driel-Gesztelyi, David H. Brooks, Gherardo Valori, Alexander W. James, J. Martin Laming, David M. Long, Pascal Demoulin, Lucie M. Green, Sarah A. Matthews, Katalin Olah, Zsolt Kovari
2019
https://arxiv.org/pdf/1902.06948.pdf

Dynamic Spectral Imaging of Decimetric Fiber Bursts in an Eruptive Solar Flare
Zhitao **Wang**, Bin Chen, Dale E. Gary
ApJ **2017**
https://arxiv.org/pdf/1709.08137.pdf

Particle Acceleration by a Solar Flare Termination Shock
Bin **Chen** (1), Timothy S. Bastian (2), Chengcai Shen (1), Dale E. Gary (3), Sam Krucker (4, 5), Lindsay Glesener
Science 4 December **2015**: Vol. 350 no. 6265 pp. 1238-1242
http://arxiv.org/ftp/arxiv/papers/1512/1512.02237.pdf

RHESSI Heliophysics Senior Review 2015
High Energy Solar Spectroscopic Imager
Samuel **Krucker**, Brian Dennis, Albert Shih, Manfred Bester

http://hesperia.gsfc.nasa.gov/senior_review/2015/senior_review_proposal_2015.pdf

Direct Evidence of an Eruptive, Filament-Hosting Magnetic Flux Rope Leading to a Fast Solar Coronal Mass Ejection
Bin **Chen**, Timothy S. Bastian, Dale E. Gary
ApJ, **2014**
http://arxiv.org/pdf/1408.6473v1.pdf

4 March – 11:11: M2.0 вспышка, **пересвет** на STEREO-B, B=16*2/292=0,11

4 March – NE region 11429 produced a **long duration M2.0/1N event** peaking at **10:52** UTC. This event was associated with a wide CME, possibly a full halo CME, and a minor increase in proton background levels. Медленно дрейфующий континуум **в начале** события на нашем спектре. Интенсивный микроволновый всплеск.

Reconstruction of the magnetic connection from Mercury to the solar corona during enhancements in the solar proton fluxes at Mercury
A. **Ippolito**1,2, C. Plainaki1, G. Zimbardo3, T. Alberti4, S. Massetti4, A. Milillo4 and S. Orsini4
A&A 660, A50 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/04/aa42328-21.pdf

An Observational Revisit of Stationary Type IV Solar Radio Bursts
Maoshui **Lv**, Yao Chen, V. Vasanth, Mohd Shazwan Radzi, Zamri Zainal Abidin & Christian Monstein
Solar Physics volume 296, Article number: 38 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01769-6.pdf

Асимметрия в появлении лидирующей и последующей полярностей в фотосферном магнитном поле на ранней стадии образования активной области.
Григорьев В.М., Ермакова Л.В., Хлыстова А.И.
Солнечно-земная физика". Т. 6, № 4, С. 3–9. **2020**
https://naukaru.ru/ru/storage/viewWindow/61999

Polarisation and source structure of solar stationary type IV radio bursts⋆
Carolina **Salas-Matamoros**1 and Karl-Ludwig Klein
A&A 639, A102 (**2020**)
https://www.aanda.org/articles/aa/pdf/2020/07/aa37989-20.pdf

An Eruptive Hot-Channel Structure Observed at Metric Wavelength as a Moving Type-IV Solar Radio Burst
V. **Vasanth**, Yao Chen, Shiwei Feng, Suli Ma, Guohui Du, Hongqiang Song, Xiangliang Kong, Bing Wang
ApJL **2016**
http://arxiv.org/pdf/1609.06546v1.pdf

Interplanetary Type IV Bursts
Alexander **Hillaris**, Constantine Bouratzis, Alexander Nindos
Solar Physics **2016**
http://arxiv.org/pdf/1604.07677v1.pdf **File**

The Relation Between Large-Scale Coronal Propagating Fronts and Type II Radio Bursts
Nariaki V. **Nitta**, Wei Liu, Nat Gopalswamy, Seiji Yashiro
Solar Phys., **2014**
http://www.lmsal.com/nitta/publ/SP_typeII_20140904.pdf
http://arxiv.org/pdf/1409.4754v1.pdf **File**

4-7 March

Relationship between Successive Flares in the Same Active Region and Space-Weather HMI Active Region Patch (SHARP) Parameters
Hao **Ran**, Ying D. Liu, Yang Guo, Rui Wang
ApJ **2022**
https://arxiv.org/pdf/2207.07254.pdf

Assessing the collision nature of coronal mass ejections in the inner heliosphere
Wageesh **Mishra**, Yuming Wang, Nandita Srivastava, Chenglong Shen
ApJ Supplement Series **2017**
https://arxiv.org/pdf/1707.08299.pdf

Sunspots rotation and magnetic transients associated with flares in NOAA AR 11429
Jianchuan Zheng, Zhiliang Yang, Jianpeng Guo, Kaiming Guo, Hui Huang, Xuan Song, Weixing Wan
Research in Astronomy and Astrophysics (RAA) **2017**
https://arxiv.org/pdf/1704.08018.pdf

Why is a flare-rich active region CME-poor?
Lijuan **Liu**, Yuming Wang, Jingxiu Wang, Chenglong Shen, Pinzhong Ye, Rui Liu, Jun Chen, Quanhao Zhang, S. Wang
2016
http://arxiv.org/pdf/1607.07531v1.pdf **File**

МОРФОЛОГИЯ, ДИНАМИКА И ОСОБЕННОСТИ МАГНИТНОЙ КОНФИГУРАЦИИ АКТИВНЫХ ОБЛАСТЕЙ ПЕРЕД ВСПЫШКАМИ РЕНТГЕНОВСКОГО КЛАССА X
Фурсяк Ю.А.
Пулково «Солнечная и солнечно-земная физика – **2015», с.371**

НАКОПЛЕНИЕ МАГНИТНОЙ ЭНЕРГИИ В КОРОНАЛЬНОМ ТОКОВОМ СЛОЕ В ПРЕДВСПЫШЕЧНОМ СОСТОЯНИИ АКТИВНОЙ ОБЛАСТИ СОЛНЦА
И.М. **Подгорный**, А.И. Подгорный
ИКИ-**2014**, Сессия: Солнце
http://plasma2014.cosmos.ru/presentations

5 March – 04:16: X1.1 **пересвет** B=73,5*2/292=0,5 ←16s 8s→ B=73,5/292=0.252
14:56: C5.5 вспышка, **пересвет** на STEREO-B, B=10*2/289= 0,069
15:36: C7.8 вспышка, **пересвет** на STEREO-B, B=9*2/289= 0,062

19:16: M2.1 вспышка, **пересвет** на STEREO-B, B=18*2/292=0,12
19:31 M1.8 вспышка, **пересвет** на STEREO-B, B=12*2/292=0,08
22:36: M1.3 вспышка, **пересвет** на STEREO-B, B=12*2/292=0,08

5 March - The X1 flare (N17E52) peaked at 0413 UT. Динамический спектр похож на 4 марта. Мощный микроволновый всплеск. The explosion also hurled a bright CME into space. После этой LDE вспышки пошли импульсные вспышки. **Prolonged gamma**

An Observational Revisit of Stationary Type IV Solar Radio Bursts
Maoshui **Lv**, Yao Chen, V. Vasanth, Mohd Shazwan Radzi, Zamri Zainal Abidin & Christian Monstein
Solar Physics volume 296, Article number: 38 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01769-6.pdf

Energetic Proton Back-Precipitation onto the Solar Atmosphere in Relation to Long-Duration Gamma-Ray Flares

Adam **Hutchinson**, Silvia Dalla, Timo Laitinen, Georgia A. de Nolfo, Alessandro Bruno, James M. Ryan
ApJ **2020**
https://arxiv.org/pdf/2012.05146.pdf **File**

Evolution of the Toroidal Flux of CME Flux Ropes during Eruption
C. **Xing**, X. Cheng, M. D. Ding
The Innovation **2020**
https://arxiv.org/pdf/2011.10750.pdf

The Lyman-alpha Emission in Solar Flares. I. a Statistical Study on Its Relationship with the 1--8 Å Soft X-ray Emission
Zhichen **Jing**, Wuqi Pan, Yukun Yang, Dechao Song, Jun Tian, Y. Li, X. Cheng, Jie Hong, M. D. Ding
ApJ **2020**
https://arxiv.org/pdf/2009.10358.pdf

Interplanetary Radio Emission: A Summary of Recent Results **Review**
Nat **Gopalswamy**
Journal of Computational and Interdisciplinary Science **2020**
https://arxiv.org/ftp/arxiv/papers/2008/2008.09222.pdf **File**

On the Shock Source of Sustained Gamma-Ray Emission from the Sun
N **Gopalswamy**, P. Makela, S. Yashiro, A. Lara, S. Akiyama, H. Xie
18th International Astrophysics Conference, Pasadena, CA, February 18 to 22, 2019 **2019**
https://arxiv.org/ftp/arxiv/papers/1907/1907.13318.pdf **File**

Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles
G. A. **de Nolfo**, A. Bruno, J. M. Ryan, S. Dalla, J. Giacalone, I. G. Richardson, E. R. Christian, S. J. Stochaj, G. A. Bazilevskaya, M. Boezio, M. Martucci, V. V. Mikhailov, R. Munini
ApJ **2019**
https://arxiv.org/pdf/1905.12878.pdf **File**

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE **Thesis Catalog (2010-2017)**
Allafort, A. J.
(**2018**). PhD thesis, Stanford Univ. **File**
https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

Interplanetary Type II Radio Bursts from Wind/WAVES and Sustained Gamma-Ray Emission from Fermi/LAT: Evidence for Shock Source
Nat **Gopalswamy**1, Pertti Mäkelä1,2, Seiji Yashiro1,2, Alejandro Lara1,2, Hong Xie1,2, Sachiko Akiyama1,2, and Robert J. MacDowall1
2018 ApJL 868 L19
http://iopscience.iop.org/article/10.3847/2041-8213/aaef36/pdf **File**

Visibility and Origin of Compact Interplanetary Radio Type IV Bursts
Nasrin Talebpour **Sheshvan**, Silja Pohjolainen
Solar Phys. **2018**
https://arxiv.org/pdf/1810.09208.pdf

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures
Edward M.B. **Thiemann**, Francis G. Eparvier and Thomas N. Woods
J. Space Weather Space Clim. **2017**, 7, A36
https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170050.pdf
https://arxiv.org/pdf/1703.02995.pdf

Characteristics of Sustained >100 γ-ray Emission Associated with Solar Flares
G. H. **Share**, R. J. Murphy, A. K. Tolbert, B. R. Dennis, S. M. White, R. A. Schwartz, and A. J. Tylka
ApJ Supplement **2017**
http://www.astro.umd.edu/~share/publications/share_2017.pdf **File**

Origin of Radio Enhancements in Type II Bursts in the Outer Corona
Firas **Al-Hamadani**, Silja Pohjolainen, Eino Valtonen
Solar Physics September **2017**, 292:127
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1148-6.pdf

Measurement of Solar Neutrons on 05 March 2012, Using a Fiber-Type Neutron Monitor Onboard the Attached Payload to the ISS
K. **Koga**, Y. Muraki, S. Masuda, S. Shibata, H. Matsumoto, H. Kawano
Solar Physics August **2017**, 292:115

Expanding and Contracting Coronal Loops as Evidence of Vortex Flows Induced by Solar Eruptions
J. **Dudík**, F. P. Zuccarello, G. Aulanier, B. Schmieder, P. Démoulin
ApJ **2017**
https://arxiv.org/pdf/1706.04783.pdf

Sunspots rotation and magnetic transients associated with flares in NOAA AR 11429
Jianchuan Zheng, Zhiliang Yang, Jianpeng Guo, Kaiming Guo, Hui Huang, Xuan Song, Weixing Wan
Research in Astronomy and Astrophysics (RAA) **2017**
https://arxiv.org/pdf/1704.08018.pdf

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures
Edward M.B. **Thiemann**, Francis G. Eparvier, Thomas N. Woods
Journal of Space Weather and Space Climate **2017**
https://arxiv.org/pdf/1703.02995.pdf

Decimetric and metric digital solar radio spectrometers of the Yunnan Astronomical Observatories and the first-light results
G. **Gao**, M. Wanga, L. Donga, N. Wu, J. Lin
New Astron. Volume 30, July **2014**, Pages 68–78
http://www.sciencedirect.com/science/article/pii/S1384107614000153

Interplanetary Type IV Bursts
Alexander **Hillaris**, Constantine Bouratzis, Alexander Nindos
Solar Physics **2016**
http://arxiv.org/pdf/1604.07677v1.pdf **File**

Multiwavelength study of twenty jets emanating from the periphery of active regions
Sargam M. **Mulay**, Durgesh Tripathi, Giulio Del Zanna, Helen Mason
A&A **2016**

USING MULTIPLE-VIEWPOINT OBSERVATIONS TO DETERMINE THE INTERACTION OF THREE CORONAL MASS EJECTIONS OBSERVED ON 2012 MARCH 5
Robin C. **Colaninno**1 and Angelos Vourlidas
2015 ApJ 815 70

Results of a Measurement of Solar Neutrons Emitted on March 5, 2012 using a Fiber-type neutron monitor onboard the SEDA-AP attached to the ISS
K. **Koga**, H. Matsumoto, O. Okudaira, T. Goka, T. Obara, S. Masuda, Y. Muraki, S. Shibata, T. Yamamoto
Proceeding of the 34th International Cosmic Ray Conference in Hague in August, 2015, **2015**
http://arxiv.org/ftp/arxiv/papers/1508/1508.04927.pdf

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations
A. **Nindos**, S. Patsourakos, A. Vourlidas, C. Tagikas
ApJ **2015**
http://arxiv.org/pdf/1507.03766v1.pdf

Observation of solar high energy gamma and X-ray emission and solar energetic particles
Alexei **Struminsky**, Weiqun Gan
24th European Cosmic Ray Symposium, Kiel, September 2014, **2015**

Tracking the CME-driven Shock Wave on 2012 March 5 and Radio Triangulation of Associated Radio Emission
J. **Magdalenić**1, C. Marqué1, V. Krupar2, M. Mierla1,3, A. N. Zhukov1,4, L. Rodriguez1, M. Maksimović5, and B. Cecconi
2014 ApJ 791 115

Connecting speeds, directions and arrival times of 22 coronal mass ejections from the Sun to 1 AU
C. **Möstl**, K. Amla, J. R. Hall, P. C. Liewer, E. M. De Jong, R. C. Colaninno, A. M. Veronig, T. Rollett, M. Temmer, V. Peinhart, J. A. Davies, N. Lugaz, Y. D. Liu, C.J. Farrugia, J. G. Luhmann, B. Vršnak, R. A. Harrison, A. B. Galvin
ApJ, **2014**
http://arxiv.org/pdf/1404.3579v1.pdf

The interplanetary causes of geomagnetic activity during the 7–17 March 2012 interval: a CAWSES II overview
Bruce T. **Tsurutani**1*, Ezequiel Echer2, Kazunari Shibata3, Olga P. Verkhoglyadova1,4, Anthony J. Mannucci1, Walter D. Gonzalez2, Janet U. Kozyra5 and Martin Pätzold
J. Space Weather Space Clim. 4 (**2014**) A02

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES
M. **Ackermann**2, M. Ajello3, A. Albert4, A. Allafort5,1, L. Baldini6, G. Barbiellini7,8, D. Bastieri et al. **Fermi-LAT collaboration**
E-print, April **2013, File**; ApJ

5-13 March

What Are the Causes of Super Activity of Solar Active Regions?
Suman K. **Dhakal**1 and Jie Zhang1
2024 ApJ 960 36
https://iopscience.iop.org/article/10.3847/1538-4357/ad07d2/pdf

MHD simulation of Solar Eruption from Active Region 11429 Driven by Photospheric Velocity Field
Xinyi **Wang**, Chaowei Jiang, Xueshang Feng
ApJ **2023**
https://arxiv.org/pdf/2301.00144.pdf

Why is a flare-rich active region CME-poor?
Lijuan **Liu**, Yuming Wang, Jingxiu Wang, Chenglong Shen, Pinzhong Ye, Rui Liu, Jun Chen, Quanhao Zhang, S. Wang
2016
http://arxiv.org/pdf/1607.07531v1.pdf **File**

Propagation of the 2012 March Coronal Mass Ejections from the Sun to Heliopause
Ying D. **Liu**, John D. Richardson, Chi Wang, Janet G. Luhmann
ApJL, **2014**
http://arxiv.org/pdf/1405.6086v1.pdf

5-6 March
The source and engine of coronal mass ejections **Review**
Manolis K. **Georgoulis**, Alexander Nindos, and Hongqi Zhang
Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences v. 377 Issue 2148 Article ID: 20180094 **2019**
https://royalsocietypublishing.org/doi/pdf/10.1098/rsta.2018.0094

6 March 00:36: M1.3 вспышка, **пересвет** на STEREO-B, B=10*2/292=0,07
01:46: M1.2 вспышка, **пересвет** на STEREO-B, B=10*2/292=0,07
04:06: M1.0 вспышка, **пересвет** на STEREO-B, B=12*2/292=0,08
07:51: M1.0 вспышка, **пересвет** на STEREO-B, B=6*2/292=0,04
12:46: M1.2 вспышка, **пересвет** на STEREO-B, B=11*2/292=0,08
21:11: M1.3 вспышка, **пересвет** на STEREO-B, B=11*2/292=0,08

6 March

On orbit performance of the solar flare trigger for the Hinode EUV Imaging Spectrometer
David H. **Brooks**, Jeffrey W. Reep, Ignacio Ugarte-Urra, Harry P. Warren
Brief Report in Frontiers in Astronomy and Space Sciences **2023**
https://arxiv.org/pdf/2303.13155.pdf

Magnetic Imprints of Eruptive and Noneruptive Solar Flares as Observed by Solar Dynamics Observatory
N. **Vasantharaju**1,2, P. Vemareddy1, B. Ravindra1, and V. H. Doddamani3
2022 ApJ 927 86
https://iopscience.iop.org/article/10.3847/1538-4357/ac4d8c/pdf

Global energetics of solar flares. XIII. The Neupert effect and acceleration of coronal mass ejections
Markus J. **Aschwanden**
ApJ **2021**
https://arxiv.org/pdf/2112.07759.pdf File

Case study on the identification and classification of small-scale flow patterns in flaring active region
E. **Philishvili**1,2, B. M. Shergelashvili3,2,4, S. Buitendag5, J. Raes1, S. Poedts1,6 and M. L. Khodachenko3,7,8
A&A 645, A52 (**2021**)
https://arxiv.org/pdf/2011.07634.pdf
https://doi.org/10.1051/0004-6361/202038895

Differential Emission Measure Evolution as a Precursor of Solar Flares

C. **Gontikakis** (1), I. Kontogiannis (2), M.K. Georgoulis (1,3), C. Guennou (4), P. Syntelis (5), S.H. Park (6), E. Buchlin
2020
https://arxiv.org/pdf/2011.06433.pdf

Magnetic Flux of Active Regions Determining the Eruptive Character of Large Solar Flares
Ting **Li**, Yijun Hou, Shuhong Yang, Jun Zhang, Lijuan Liu, Astrid M. Veronig
ApJ **2020**
https://arxiv.org/pdf/2007.08127.pdf

Coronal dimmings associated with coronal mass ejections on the solar limb
Galina **Chikunova**, Karin Dissauer, Tatiana Podladchikova, Astrid M. Veronig
ApJ **2020**
https://arxiv.org/pdf/2005.03348.pdf **File**

A Study of Pre-Flare Solar Coronal Magnetic Fields: Magnetic Flux Ropes
Aiying **Duan**, Chaowei Jiang, Wen He, Xueshang Feng, Peng Zou, Jun Cui
ApJ **2019**
https://arxiv.org/pdf/1908.08643.pdf

Transient Inverse-FIP Plasma Composition Evolution within a Confined Solar Flare
Deborah **Baker**, Lidia van Driel-Gesztelyi, David H. Brooks, Gherardo Valori, Alexander W. James, J. Martin Laming, David M. Long, Pascal Demoulin, Lucie M. Green, Sarah A. Matthews, Katalin Olah, Zsolt Kovari
2019
https://arxiv.org/pdf/1902.06948.pdf

Lyman Continuum Observations of Solar Flares Using SDO/EVE
Marcos E. **Machado**, Ryan O. Milligan, Paulo J. A. Simoes
ApJ **2018**
https://arxiv.org/pdf/1810.10824.pdf

Evaluation of Applicability of a Flare Trigger Model based on Comparison of Geometric Structures
Yumi **Bamba**, Kanya Kusano
ApJ **2018**
https://arxiv.org/pdf/1802.00134.pdf

The direct relation between the duration of magnetic reconnection and the evolution of GOES light curves in solar flares
Jeffrey W **Reep**, Shin Toriumi
ApJ **2017**
https://arxiv.org/pdf/1711.00422.pdf

Automatic detection of white-light flare kernels in SDO/HMI intensitygrams
L. **Mravcova** (1), M. Svanda
New Astronomy **2017**
https://arxiv.org/pdf/1706.00988.pdf

Spectral Trends of Solar Bursts at Sub-THz Frequencies
L. O. T. **Fernandes,** P. Kaufmann, E. Correia, C. G. Giménez de Castro, A. S. Kudaka, A. Marun, P. Pereyra, J.-P. Raulin, A. B. M. Valio
Solar Physics January **2017**, 292:21
http://sci-hub.cc/10.1007/s11207-016-1043-6

Quasi-oscillatory dynamics observed in ascending phase of the flare on March 6, 2012.
Philishvili1,2 , B.M. Shergelashvili3,2,5 , T.V. Zaqarashvili4,2 , V. Kukhianidze2 , G. Ramishvili2 , M. Khodachenko3,6 , S. Poedts1 , P. De Causmaecker
A&A 600, A67 **2017**
https://arxiv.org/pdf/1612.09562v1.pdf

Solar Flare Prediction Model with Three Machine-Learning Algorithms Using Ultraviolet Brightening and Vector Magnetogram
N. **Nishizuka**, K. Sugiura, Y. Kubo, M. Den, S. Watari, M. Ishii
2016
https://arxiv.org/pdf/1611.01791v1.pdf

The nonpotentiality of coronae of solar active regions, the dynamics of the surface magnetic field, and the potential for large flares
C.J. **Schrijver**
ApJ **2016**
http://arxiv.org/pdf/1602.07244v1.pdf

Cluster of solar active regions and onset of coronal mass ejections.
Wang J X, Zhang Y Z, He H, et al.
SCIENCE CHINA Physics, Mechanics & Astronomy (Sci China-Phys Mech Astron), **2015**, 58(9): 599601 **File**
http://link.springer.com/journal/11433/58/9/page/1
http://phys.scichina.com:8083/sciGe/EN/article/showFieldArticle.do?fieldId=81

Global Energetics of Solar Flares: I. Magnetic Energies
Markus J. **Aschwanden**, Yan Xu, and Ju Jing
ApJ, **2014**
http://www.lmsal.com/~aschwand/eprints/2014_global1.pdf

POlarization Emission of Millimeter Activity at the Sun (POEMAS): New Circular Polarization Solar Telescopes at Two Millimeter Wavelength Ranges
Adriana **Valio**, P. Kaufmann, C. G. Giménez de Castro, J.-P. Raulin, L. O. T. Fernandes, A. Marun
Solar Physics, April **2013**, Volume 283, Issue 2, pp 651-665

THE RELATIONSHIP BETWEEN THE SUDDEN CHANGE OF THE LORENTZ FORCE AND THE MAGNITUDE OF ASSOCIATED FLARES
Shuo **Wang**, Chang Liu, and Haimin Wang
2012 ApJ 757 L5

6-7 March

Deep Flare Net (DeFN) model for solar flare prediction
Naoto **Nishizuka**, Komei Sugiura, Yuki Kubo, Mitsue Den, Mamoru Ishii
ApJ **2018**
https://arxiv.org/pdf/1805.03421.pdf

The causes of quasi-homologous CMEs
Lijuan **Liu**, Yuming Wang, Rui Liu, Zhenjun Zhou, M. Temmer, J. K. Thalmann, Jiajia Liu, Kai Liu, Chenglong Shen, Quanhao Zhang, A. M. Veronig
2017
https://arxiv.org/pdf/1706.08878.pdf

6-11 March

The characteristics of flare- and CME-productive solar active regions **Review**

Ioannis **Kontogiannis**
Advances in Space Research **2022**
https://arxiv.org/pdf/2210.05453.pdf

Comparative case study of two methods to assess the eruptive potential of selected active regions
Francesca **Zuccarello**1, Ilaria Ermolli, Marianna B. Korsos, Fabrizio Giorgi, Salvo L. Guglielmino, Robertus Erdelyi, Paolo Romano
Research in Astronomy and Astrophysics **2021**
https://arxiv.org/pdf/2110.01272.pdf

Detailed analysis of dynamic evolution of three Active Regions before flare and CME occurrence at the photospheric level
Yudong **Ye**, M. B. Korsos, R. Erdelyi
2018
https://arxiv.org/pdf/1801.00430.pdf

Electric-Current Neutralization, Magnetic Shear, and Eruptive Activity in Solar Active Regions
Yang **Liu**, Xudong Sun, Tibor Török, Viacheslav S. Titov, James E. Leake
ApJ **2017**
https://arxiv.org/pdf/1708.04411.pdf

Twist and Writhe of the Magnetic Flux in the Super Active Region NOAA 11429
A. **Elmhamdi**, P. Romano, A. S. Kordi, H. A. Al-trabulsy
Solar Physics, March **2014**

6-21 March
Solar neutrino flare, megaton neutrino detectors and human space journey
Danile **Fargion**, Pietro Oliva, Silvia Pietroni, Fabio La Monaca, Paolo Paggi, Emanuele Habib, Maxim Khlopov
WSPC Proceedings **2018**
https://arxiv.org/pdf/1809.02004.pdf

Halo Coronal Mass Ejections during Solar Cycle 24: reconstruction of the global scenario and geoeffectiveness
Camilla **Scolini**, Mauro Messerotti, Stefaan Poedts, Luciano Rodriguez
Journal of Space Weather and Space Climate 2017
https://arxiv.org/pdf/1712.05847.pdf **File**

Forbush decreases at a middle latitude neutron monitor: relations to geomagnetic activity and to interplanetary plasma structures
I. **Parnahaj** , K. Kudela
Astrophysics and Space Science September **2015**, 359:35 **File**

7 March – FD~3%, GMS Dst ~-83 nT

7 March – 00:16 – X5.4 **пересвет** B=118*2/292= 0,81 ←16s 8s→ **00:26** B=97*2/292= 0,664

7 March - the region 11429 [N17E28] has produced 2 X flares: X5.4/3B (associated with a fast, wide halo CME) at 00:24 and X1.3 at 01:14 (associated with a fast, but still significantly slower CME than the one observed less than an hour before) UTC. The latter X flare occurred in the western part of the magnetic delta structure while the X5 event was near the center of the inversion line. Prolonged gamma

The radiation storm is intensifying with the above 10 MeV proton flux currently above 1700 pfu.

http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Солнечные вспышки с продолжительным гамма-излучением и характеристики потоков протонов высоких энергий.
Томозов В.М., Минасянц Г.С., Минасянц Т.М.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 9 № 4 , 2023 С. 38–43.
https://naukaru.ru/ru/storage/viewWindow/138048

Characterising Solar Magnetic Reconnection in Confined and Eruptive Flares
Kanniah **Balamuralikrishna**, John Y. H. Soo, Norhaslinda Mohamed Tahrin, Abdul Halim Abdul Aziz
Astrophys. Space Sci. 368 (**2023**) 94
https://arxiv.org/ftp/arxiv/papers/2312/2312.12873.pdf
https://doi.org/10.1007/s10509-023-04251-w

Data-driven simulations of magnetic field evolution in Active Region 11429: Magneto-friction method using PENCIL code
P. **Vemareddy**, Jörn Warnecke, Ph. A. Bourdin
Research in Astronomy and Astrophysics **2023**
https://arxiv.org/pdf/2312.12124.pdf

The Mean Temperatures of CME-Related Dimming Masses
Emily **Thomson**, Hugh Hudson
Solar Phys. 298, Article number: 130 (**2023**)
https://link.springer.com/content/pdf/10.1007/s11207-023-02222-6.pdf

Solar Wind with Field Lines and Energetic Particles (SOFIE) Model: Application to Historical Solar Energetic Particle Events
Lulu **Zhao**, Igor Sokolov, Tamas Gombosi, David Lario, Kathryn Whitman, Zhenguang Huang, Gabor Toth, Ward Manchester, Bart van der Holst, Nishtha Sachdeva
Space Weather **2023**
https://arxiv.org/pdf/2309.16903.pdf

Solar Energetic Particle Events Detected in the Housekeeping Data of the European Space Agency's Spacecraft Flotilla in the Solar System
Beatriz **Sánchez-Cano**, Olivier Witasse, Elise W. Knutsen, Dikshita Meggi, +++
Space Weather Volume21, Issue8 August **2023** e2023SW003540
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2023SW003540

Speed and Acceleration of CMEs Associated with Sustained Gamma-Ray Emission Events Observed by Fermi/LAT
P. **Mäkelä**, N. Gopalswamy, S. Akiyama, H. Xie, S. Yashiro
ApJ **2023**
https://arxiv.org/pdf/2307.05585.pdf **File**

Deep Learning–based Solar Flare Forecasting Model. III. Extracting Precursors from EUV Images
Dezhi **Sun**1,2, Xin Huang3,1, Zhongrui Zhao1,2, and Long Xu1
2023 ApJS 266 8
https://iopscience.iop.org/article/10.3847/1538-4365/acc248/pdf

The Initiation and Back-reaction of the X5.4 Flare on 2012 March 7
Nian **Liu**1, Ju Jing1,2, Qiang Hu3, Satoshi Inoue1, and Haimin Wang1,2
2023 ApJ 946 64
https://iopscience.iop.org/article/10.3847/1538-4357/acbc15/pdf

Evolution of Coronal Magnetic Field Parameters during X5.4 Solar Flare
Seth **Garland**, Vasyl Yurchyshyn, Robert Loper, Benjamin Akers, and Daniel Emmons
Astron. Space Sci. 10: 1148293. **2023** doi: 10.3389/fspas.2023.1148293
https://www.frontiersin.org/articles/10.3389/fspas.2023.1148293/pdf
https://www.frontiersin.org/articles/10.3389/fspas.2023.1148293/full

On the Role of Interplanetary Shocks in Accelerating MeV Electrons
N. Talebpour **Sheshvan**, N. Dresing, R. Vainio, A. Afanasiev, D. E. Morosan
A&A **2023**
https://arxiv.org/pdf/2301.05587.pdf

Assessment of the arrival signatures of the March 2012 CME–CME interaction event with respect to Mercury, Venus, Earth, STEREO-B, and Mars locations
Soni, Shirsh Lata ; Selvakumaran, R. ; Thampi, R. Satheesh
Frontiers in Astronomy and Space Sciences, Volume 9, id.441 (**2022**)
https://doi.org/10.3389/fspas.2022.1049906
https://www.frontiersin.org/articles/10.3389/fspas.2022.1049906/full

Properties of Flare-Imminent versus Flare-Quiet Active Regions from the Chromosphere through the Corona I: Introduction of the AIA Active Region Patches (AARPs)
Karin **Dissauer**, KD Leka, Eric L. Wagner
ApJ **2022**
https://arxiv.org/pdf/2212.11251.pdf

Near-Earth Interplanetary Coronal Mass Ejections and Their Association with DH Type II Radio Bursts During Solar Cycles 23 and 24
Binal D. **Patel**, Bhuwan Joshi, Kyung-Suk Cho, Rok-Soon Kim & Yong-Jae Moon
Solar Physics volume 297, Article number: 139 (**2022**)
https://doi.org/10.1007/s11207-022-02073-7
https://arxiv.org/pdf/2210.14535.pdf

A Comparison of Solar X-Ray Flare Timescales and Peak Temperatures with Associated Coronal Mass Ejections
S. W. **Kahler**1 and A. G. Ling2
2022 ApJ 934 175
https://iopscience.iop.org/article/10.3847/1538-4357/ac7e56/pdf

Coronal loop kink oscillation periods derived from the information of density, magnetic field, and loop geometry
G. Y. **Chen**1, L. Y. Chen1, Y. Guo1, M. D. Ding1, P. F. Chen1 and R. Erdélyi2,3,4
A&A 664, A48 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/08/aa42711-21.pdf

Relationship between Successive Flares in the Same Active Region and Space-Weather HMI Active Region Patch (SHARP) Parameters
Hao **Ran**, Ying D. Liu, Yang Guo, Rui Wang
ApJ **2022**
https://arxiv.org/pdf/2207.07254.pdf

Invited Review: Short-term Variability with the Observations from the Helioseismic and Magnetic Imager (HMI) Onboard the Solar Dynamics Observatory (SDO): Insights into Flare Magnetism
Maria D. **Kazachenko**, Marcel F. Albelo-Corchado, Cole A. Tamburri & Brian T. Welsch
Solar Physics volume 297, Article number: 59 (**2022**)
https://link.springer.com/content/pdf/10.1007/s11207-022-01987-6.pdf **File**

Magnetic imprints of eruptive and non-eruptive Solar flares as observed by Solar Dynamics Observatory
N. **Vasantharaju**, P. Vemareddy, B. Ravindra, V. H. Doddamani
ApJ **2022**
https://arxiv.org/pdf/2201.06550.pdf

Arrival Time Estimates of Earth-Directed CME-Driven Shocks
K. **Suresh**, N. Gopalswamy & A. Shanmugaraju
Solar Physics volume 297, Article number: 3 (**2022**)
https://doi.org/10.1007/s11207-021-01914-1
https://link.springer.com/content/pdf/10.1007/s11207-021-01914-1.pdf

Global energetics of solar flares. XIII. The Neupert effect and acceleration of coronal mass ejections
Markus J. **Aschwanden**
ApJ **2021**
https://arxiv.org/pdf/2112.07759.pdf File

Solar Flare Irradiance: Observations and Physical Modeling
Jeffrey W. **Reep**, David E. Siskind, Harry P. Warren
ApJ **2021**
https://arxiv.org/pdf/2110.06310.pdf

Probing Particle Acceleration through Gamma-ray Solar Flare Observations **Review**
Melissa **Pesce-Rollins**, Nicola Omodei, Vahe' Petrosian, Francesco Longo
37th International Cosmic Ray Conference (ICRC2021) proceedings **2021**
https://arxiv.org/pdf/2109.13535.pdf **File**

Magnetic helicity and energy budget around large confined and eruptive solar flares
Manu **Gupta**, J. K. Thalmann, A. M. Veronig
A&A **2021**
https://arxiv.org/pdf/2106.08781.pdf

Flux emergence and generation of flare-productive active regions
Shin **Toriumi**
Advances in Space Research **2021**
https://arxiv.org/pdf/2105.09961.pdf

The Common Origin of High-energy Protons in Solar Energetic Particle Events and Sustained Gamma-ray Emission from the Sun
N. **Gopalswamy**, S. Yashiro, P. Makela, H. Xie, S. Akiyama
ApJ **2021**
https://arxiv.org/ftp/arxiv/papers/2105/2105.01206.pdf

Indications of stellar coronal mass ejections through coronal dimmings
Astrid M. **Veronig**, Petra Odert, Martin Leitzinger, Karin Dissauer, Nikolaus C. Fleck, Hugh S. Hudson
Nature Astronomy Volume 5, p. 697-706 **2021**
https://www.nature.com/articles/s41550-021-01345-9.epdf
https://doi.org/10.1038/s41550-021-01345-9
https://arxiv.org/ftp/arxiv/papers/2110/2110.12029.pdf

Space weather: the solar perspective -- an update to Schwenn (2006) **Review**
Manuela **Temmer**
Living Reviews in Solar Physics **2021**
https://arxiv.org/pdf/2104.04261.pdf

First Fermi-LAT Solar Flare Catalog
M. **Ajello**1, L. Baldini2, D. Bastieri3,4, R. Bellazzini5, A. Berretta6, E. Bissaldi7,8, R. D. Blandford9, R. Bonino10,11, P. Bruel12, S. Buson13Show full author list
2021 ApJS 252 13
https://arxiv.org/pdf/2101.10010.pdf **File**
https://doi.org/10.3847/1538-4365/abd32e

Search for GeV Neutrino Emission During Intense Gamma-Ray Solar Flares with the IceCube Neutrino Observatory
R. **Abbasi**, M. Ackermann, J. Adams, J. A. Aguilar, M. Ahlers, ……..
2021
https://arxiv.org/pdf/2101.00610.pdf

Energetic Proton Back-Precipitation onto the Solar Atmosphere in Relation to Long-Duration Gamma-Ray Flares
Adam **Hutchinson**, Silvia Dalla, Timo Laitinen, Georgia A. de Nolfo, Alessandro Bruno, James M. Ryan
ApJ **2020**
https://arxiv.org/pdf/2012.05146.pdf **File**

Magnetic Reconnection Invoked by Sweeping of the CME-Driven Fast-Mode Shock
Guiping **Zhou**, Guannan Gao, Jingxiu Wang, Jun Lin, Yingna Su, Chunlan Jin, Yuzong Zhang
ApJ **905** 150 **2020**
https://arxiv.org/pdf/2010.12957.pdf
https://doi.org/10.3847/1538-4357/abc5b2

Relation of Non-neutralized electric currents and the activity in active regions
P. **Vemareddy**
RHESSI Science Nuggets #386 Oct **2020**
https://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Relation_of_Non-neutralized_electric_currents_and_the_activity_in_active_regions **March 7, 2012**

Three-Dimensional Reconstructions of Coronal Wave Surfaces Using a New Mask-Fitting Method
Li **Feng**, Lei Lu, Bernd Inhester, Joseph Plowman, Beili Ying, Marilena Mierla, Matthew J. West, Weiqun Gan
Solar Phys. **2020**
https://arxiv.org/pdf/2009.10872.pdf

Recurring Homologous Solar Eruptions in NOAA AR 11429
Suman K. **Dhakal**, Jie Zhang, Panditi Vemareddy, Nishu Karna
ApJ **2020**
https://arxiv.org/pdf/2008.03447.pdf

Small Size Ground Level Enhancements During Solar Cycle 24
Leonty I. **Miroshnichenko**, Chuan Li & Victor G. Yanke
Solar Physics volume 295, Article number: 102 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01659-3.pdf

On the Emission Region of Type II Radio Bursts in Interplanetary Shock Fronts
E. **Aguilar-Rodriguez** & P. Corona-Romero
Solar Physics volume 295, Article number: 77 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01643-x.pdf

Fermi Large Area Telescope observations of solar flares during the 24th solar cycle
Melissa **Pesce-Rollins**
Presentation at the Fleishman Webinar Nov. 13, **2019**

http://www.ioffe.ru/LEA/SF_AR/files/FermiLATSolarFlares_webinar.pdf

Lyman-alpha Variability During Solar Flares Over Solar Cycle 24 Using GOES-15/EUVS-E
Ryan O. **Milligan**, Hugh S. Hudson, Phillip C. Chamberlin, Iain G. Hannah
Space Weather **2019**
https://arxiv.org/pdf/1910.01364.pdf

First search for GeV neutrinos from bright gamma-ray solar flares using the IceCube Neutrino Observatory
Gwenhaël **de Wasseige** (for the IceCube Collaboration)
the 36th International Cosmic Ray Conference (ICRC 2019). PoS-ICRC2019-1075 **2019**
https://arxiv.org/pdf/1908.08300.pdf

ОГРАНИЧЕНИЯ НА РЕЖИМЫ УСКОРЕНИЯ ЭЛЕКТРОНОВ В СОЛНЕЧНЫХ ВСПЫШКАХ
В. А. **Ковалев**1*, В. Ф. Мельников2
ПАЖ **2019**, том 45,№8, с. 586–590

On the Shock Source of Sustained Gamma-Ray Emission from the Sun
N **Gopalswamy**, P. Makela, S. Yashiro, A. Lara, S. Akiyama, H. Xie
18th International Astrophysics Conference, Pasadena, CA, February 18 to 22, 2019 **2019**
https://arxiv.org/ftp/arxiv/papers/1907/1907.13318.pdf **File**

Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles
G. A. **de Nolfo**, A. Bruno, J. M. Ryan, S. Dalla, J. Giacalone, I. G. Richardson, E. R. Christian, S. J. Stochaj, G. A. Bazilevskaya, M. Boezio, M. Martucci, V. V. Mikhailov, R. Munini
ApJ **2019**
https://arxiv.org/pdf/1905.12878.pdf **File**

Flare-productive active regions **Review**
Shin **Toriumi**, Haimin Wang
Living Reviews in Solar Physics **2019**
https://arxiv.org/pdf/1904.12027.pdf

Plasma Motion inside Flaring Regions Revealed by Doppler Shift Information from SDO/EVE Observations
Zhixun **Cheng**1,2, Yuming Wang1,2, Rui Liu1,2, Zhenjun Zhou2,3, and Kai Liu1,2
2019 ApJ 875 93
sci-hub.se/10.3847/1538-4357/ab0f2d

Multiple Magnetic Reconnections Driven by a Large-scale Magnetic Flux Rope
G. P. **Zhou**1, C. M. Tan1, Y. N. Su2,3, C. L. Shen4, B. L. Tan1, C. L. Jin1, and J. X. Wang
2019 ApJ 873 23
https://doi.org/10.3847/1538-4357/ab01cf

What the High-Energy Flares and CMEs of 2012 March 7 Can Tell Us About Long Duration Gamma-Ray Flares
Ryan, James M.; De Nolfo, Georgia
42nd COSPAR Scientific Assembly. Held 14-22 July **2018**, in Pasadena, California, USA, Abstract id. D2.1-20-18.

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE **Thesis Catalog (2010-2017)**
Allafort, A. J.

(**2018**). PhD thesis, Stanford Univ. **File**
https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

Magnetic Flux Reconnection in Flaring Active Regions with Sustained Gamma-Ray Emission
S. W. **Kahler**1, E. W. Cliver2, and M. Kazachenko3
2018 ApJ 868 81
sci-hub.tw/10.3847/1538-4357/aae9d8

Interplanetary Type II Radio Bursts from Wind/WAVES and Sustained Gamma-Ray Emission from Fermi/LAT: Evidence for Shock Source
Nat **Gopalswamy**1, Pertti Mäkelä1,2, Seiji Yashiro1,2, Alejandro Lara1,2, Hong Xie1,2, Sachiko Akiyama1,2, and Robert J. MacDowall1
2018 ApJL 868 L19
http://iopscience.iop.org/article/10.3847/2041-8213/aaef36/pdf **File**

Chapter 13 - Near-Earth Radiation Environment for Extreme Solar and Geomagnetic Conditions **Review**
Mikhail **Panasyuk***†VladimirKalegaev*LeontyMiroshnichenko*‡NikolayKuznetsov*RikhoNymmik*HelenPopova*BorisYushkov*VictorBenghin
In: Extreme Events in Geospace Origins, Predictability, and Consequences **2018**, Pages 349-372
http://sci-hub.tw/10.1016/B978-0-12-812700-1.00013-3

Chapter 3 - Solar Flare Forecasting: Present Methods and Challenges **Review**
K.D.**Leka**, Graham Barnes
In: Extreme Events in Geospace Origins, Predictability, and Consequences **2018**, Pages 65-98
http://sci-hub.tw/10.1016/B978-0-12-812700-1.00003-0

The Ground Level Enhancement Event of September 2017 and Other Large Solar Energetic Particle Events of Cycle 24
C. M. S. **Cohen**, R. A. Mewaldt
Space Weather **2018**
sci-hub.tw/10.1029/2018SW002006

Solar neutrino flare, megaton neutrino detectors and human space journey
Danile **Fargion**, Pietro Oliva, Silvia Pietroni, Fabio La Monaca, Paolo Paggi, Emanuele Habib, Maxim Khlopov
WSPC Proceedings **2018**
https://arxiv.org/pdf/1809.02004.pdf

Energetic Gamma-Ray Emission from Solar Flares
Ervin **Kafexhiu**1, Carlo Romoli1,2, Andrew M. Taylor3, and Felix Aharonian
2018 ApJ 864 148
https://sci-hub.tw/10.3847/1538-4357/aad801

A Statistical Study to Determine the Origin of Long-Duration Gamma-ray Flares
Lisa M. **Winter**, Valerie Bernstein, Nicola Omodei, Melissa Pesce-Rollins
ApJ **2018**
https://arxiv.org/pdf/1807.06001.pdf **File**

Data-driven Simulations of Magnetic Connectivity in Behind-the-Limb γ-ray Flares and Associated Coronal Mass Ejections
Meng **Jin**, Vahe Petrosian, Wei Liu, Nariaki V. Nitta, Nicola Omodei, Fatima Rubio da Costa, Frederic Effenberger, Gang Li, Melissa Pesce-Rollins, Alice Allafort, Ward Manchester IV

ApJ **2018**
https://arxiv.org/pdf/1807.01427.pdf **File**

Statistical study of magnetic non-potential measures in confined and eruptive flares
N. **Vasantharaju**, P. Vemareddy, B. Ravindra, V. H. Doddamani
ApJ **2018**
https://arxiv.org/pdf/1805.02348.pdf

X-Ray, Radio and SEP Observations of Relativistic Gamma-Ray Events **Review**
Karl-Ludwig **Klein,** Kostas Tziotziou, Pietro Zucca, Eino Valtonen, Nicole Vilmer, Olga E. Malandraki, Clarisse Hamadache, Bernd Heber, and Jürgen Kiener
In: O.E. Malandraki, N.B. Crosby (eds.), Solar Particle Radiation Storms Forecasting and Analysis
Chapter 8, **2018**
https://link.springer.com/content/pdf/10.1007%2F978-3-319-60051-2.pdf
File Malandraki_Crosby_SEPs_Forecasting and Analysis_Book.pdf

A Statistical Study of the Magnetic Imprints of X-Class Flares using SDO/HMI Vector Magnetograms
Zekun **Lu**, Weiguang Cao, Gaoxiang Jin, Yining Zhang, Mingde Ding, Yang Guo
ApJ **2018**
https://arxiv.org/pdf/1803.08310.pdf

Evaluation of Applicability of a Flare Trigger Model based on Comparison of Geometric Structures
Yumi **Bamba**, Kanya Kusano
ApJ **2018**
https://arxiv.org/pdf/1802.00134.pdf

Relationship between Intensity of White-light Flares and Proton Flux of Solar Energetic Particles
Nengyi **Huang**1,2, Yan Xu1,2, and Haimin Wang
2018 Res. Notes AAS 2 7
http://iopscience.iop.org/article/10.3847/2515-5172/aaa602
https://arxiv.org/pdf/1801.04316.pdf

Spectroscopic diagnostics of the non-Maxwellian $κ$-distributions using SDO/EVE observations of the 2012 March 7 X-class flare
Elena **Dzifcakova**, Alena Zemanova, Jaroslav Dudik, Simon Mackovjak
ApJ **2018**
https://arxiv.org/pdf/1801.02936.pdf

Detailed analysis of dynamic evolution of three Active Regions before flare and CME occurrence at the photospheric level
Yudong **Ye**, M. B. Korsos, R. Erdelyi
2018
https://arxiv.org/pdf/1801.00430.pdf

On the evolution of pre-flare patterns of a 3-dimensional model of AR 11429
M. B. **Korsos**, S. Poedts, N. Gyenge, M. K. Georgoulis, S. Yu, S. K. Bisoi, Y. Yan, M. S. Ruderman, R. Erdelyi
2018
https://arxiv.org/pdf/1801.00433.pdf

Evolution of Relative Magnetic Helicity: New Boundary Conditions for the Vector Potential
Shangbin **Yang**, Joerg Buechner, Jan Skala, Hongqi Zhang
A&A **2017**
https://arxiv.org/pdf/1712.09219.pdf

Searching for Extreme SEP Events with STEREO,
Cohen, C. M. S., J. G. Luhmann, R. A. Mewaldt, M. L. Mays, H. M. Bain, Y. Li, and C. O. Lee (**2017**), Proceedings of 35th ICRC Conference, PoS(ICRC2017), id.134, 1–8.
https://pos.sissa.it/301/134/pdf

SPRINTS: A Framework for Solar-Driven Event Forecasting and Research
A. J. **Engell**, D. A. Falconer, M. Schuh, J. Loomis, D. Bissett
Space Weather Volume 15, Issue 10 October **2017** Pages 1321–1346
http://sci-hub.cc/10.1002/2017SW001660

Assessment of spectral and angular characteristics of sub-GLE events using the global neutron monitor network
Alexander **Mishev**1*, Stepan Poluianov1,2 and Ilya Usoskin1,2
J. Space Weather Space Clim. **2017**, 7, A28
https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170026.pdf

Characteristics of Sustained >100 γ-ray Emission Associated with Solar Flares
G. H. **Share**, R. J. Murphy, A. K. Tolbert, B. R. Dennis, S. M. White, R. A. Schwartz, and A. J. Tylka
ApJ Supplement **2017**
http://www.astro.umd.edu/~share/publications/share_2017.pdf **File**

Understanding Problem Forecasts of ISEST Campaign Flare-CME Events
David **Webb**, Nariaki Nitta
Solar Physics October **2017**, 292:142 **File**

Predicting Flares and Solar Energetic Particle Events: The FORSPEF Tool
A. **Anastasiadis**, A. Papaioannou, I. Sandberg, M. Georgoulis, K. Tziotziou, A. Kouloumvakos, P. Jiggens
Solar Physics September **2017**, 292:134

First Imaging Observation of Standing Slow Wave in Coronal Fan loops
V. **Pant**, A. Tiwari, D. Yuan, D. Banerjee
ApJL **2017**
https://arxiv.org/pdf/1708.06946.pdf

The Physical Processes of CME/ICME Evolution **Review**
Ward **Manchester** IV, Emilia K. J. Kilpua, Ying D. Liu, Noé Lugaz, Pete Riley, Tibor Török, Bojan Vršnak
Space Science Reviews **2017**
https://link.springer.com/content/pdf/10.1007%2Fs11214-017-0394-0.pdf

Implications of improved measurements of the highest energy SEPs by AMS and PAMELA **Review**
K. **Whitman**, , V. Bindi, C. Consolandi, C. Corti, B. Yamashiro
Advances in Space Research Volume 60, Issue 4, 15 August **2017**, Pages 768–780
http://sci-hub.cc/10.1016/j.asr.2017.02.042

The causes of quasi-homologous CMEs
Lijuan **Liu**, Yuming Wang, Rui Liu, Zhenjun Zhou, M. Temmer, J. K. Thalmann, Jiajia Liu, Kai Liu, Chenglong Shen, Quanhao Zhang, A. M. Veronig

2017
https://arxiv.org/pdf/1706.08878.pdf

A Lasso Model for Solar Gamma-Ray Events
Hugh **Hudson**
RHESSI Science Nuggets, No. 300, May **2017**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/A_Lasso_Model_for_Solar_Gamma-ray_Events

Sunspots rotation and magnetic transients associated with flares in NOAA AR 11429
Jianchuan **Zheng**, Zhiliang Yang, Jianpeng Guo, Kaiming Guo, Hui Huang, Xuan Song, Weixing Wan
Research in Astronomy and Astrophysics (RAA) **2017**
https://arxiv.org/pdf/1704.08018.pdf

A Database of Flare Ribbon Properties From Solar Dynamics Observatory I: Reconnection Flux
Maria D. **Kazachenko**, Benjamin J. Lynch, Brian T. Welsch, Xudong Sun
ApJ **2017**
https://arxiv.org/pdf/1704.05097.pdf

Characterizing Solar Energetic Particle Event Profiles with Two-Parameter Fits
Stephen W. **Kahler**, Alan G. Ling
Solar Physics April **2017**, 292:59
http://link.springer.com/content/pdf/10.1007%2Fs11207-017-1085-4.pdf

Active longitude and CME occurrences
N. **Gyenge**, T. Singh, T. S. Kiss, A. K. Srivastava, R. Erdélyi
2017
https://arxiv.org/pdf/1702.06664.pdf

Shock-Cloud Interaction in the Solar Corona
Takuya **Takahashi**
ApJ **2017**
https://arxiv.org/pdf/1701.07001v1.pdf

Global Energetics of Solar Flares and CMEs: V. Energy Closure
Markus J. **Aschwanden**, Amir Campi, Christina M.S. Cohen, Gordon Holman, Ju Jing, Matthieu Kretzschmar, Eduard P. Kontar, James McTiernan, Richard A. Mewaldt, Aidan O'Flannagain, Ian G. Richardson, Daniel Ryan, Harry P. Warren, Yan Xu
ApJ **2017**
https://arxiv.org/pdf/1701.01176v1.pdf

Results on Solar Physics from AMS-02
S. Della **Torre**, AMS-02 Collaboration
XXV ECRS 2016 Proceedings - eConf C16-09-04.3 **2016**
https://arxiv.org/pdf/1612.08441v1.pdf

Solar Energetic Particle Events with Protons Above 500 MeV Between 1995 and 2015 Measured with SOHO/EPHIN
P. Kühl, N. Dresing, B. Heber, A. Klassen
Solar Physics January **2017**, 292:10
http://link.springer.com/article/10.1007/s11207-016-1033-8

Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions
Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
ApJ **2016**

https://arxiv.org/pdf/1611.05047v1.pdf

Segmental interpolating spectra for solar particle events and in situ validation
S. **Hu**, C. Zeitlin, W. Atwell, D. Fry, J.E. Barzilla, E. Semones
Space Weather Volume 14, Issue 10 October **2016** Pages 742–753
http://sci-hub.cc/doi/10.1002/2016SW001476

Doppler speeds of the hydrogen Lyman lines in solar flares from EVE
Stephen A **Brown**, Lyndsay Fletcher, Nicolas Labrosse
A&A **2016**
https://arxiv.org/pdf/1610.04007v1.pdf

Temporal Evolution of Solar Energetic Particle Spectra
Donald J. **Doran**, Silvia Dalla
Solar Phys. **2016** **File**

Why is a flare-rich active region CME-poor?
Lijuan **Liu**, Yuming Wang, Jingxiu Wang, Chenglong Shen, Pinzhong Ye, Rui Liu, Jun Chen, Quanhao Zhang, S. Wang
2016
http://arxiv.org/pdf/1607.07531v1.pdf **File**

Comparison of CME/shock propagation models with heliospheric imaging and in situ observations
Xinhua **Zhao**, Ying D. Liu, Bernd Inhester, Xueshang Feng, Thomas Wiegelmann, Lei Lu
ApJS **2016**
http://arxiv.org/pdf/1607.05533v1.pdf

The Characteristics of Solar X-Class Flares and CMEs: A Paradigm for Stellar Superflares and Eruptions?
Louise K. **Harra**, Carolus J. Schrijver, Miho Janvier, Shin Toriumi, Hugh Hudson, Sarah Matthews, Magnus M. Woods, Hirohisa Hara, Manuel Guedel, Adam Kowalski, Rachel Osten, Kanya Kusano, Theresa Lueftinger
Solar Phys. **2016** **Open Access** **File**

Mult-viewpoint Observations of a Widely Distributed Solar Energetic Particle Event: the Role of EUV Waves and Shock Signatures
Alexander **Nindos**∗1 , Athanasios Kouloumvakos1 , Spiros Patsourakos1 , Angelos Vourlidas2 , Anastasios Anastasiadis3 , Alexander Hillaris4 , and Ingmar Sandberg3
CESRA **2016** p.38
http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v3.pdf

The radial speed-expansion speed relation for Earth-directed CMEs
P. **Mäkelä**, N. Gopalswamy, S. Yashiro
Space Weather Volume 14, Issue 5 May **2016** Pages 368–378 **File**
http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf

Inference of Magnetic Field in the Coronal Streamer Invoking Kink Wave Motions generated by Multiple EUV Waves
A.K. **Srivastava**, Talwinder Singh, Leon Ofman, B.N. Dwivedi
Mon. Not. R. Astron. Soc. **2016** **File**
http://arxiv.org/pdf/1606.00337v1.pdf

On the relationship between sunspot structure and magnetic field changes associated with solar flares
Yongliang **Song**, Mei Zhang
2016

http://arxiv.org/pdf/1605.01163v1.pdf

Large solar energetic particle event that occurred on 2012 March 7 and its VDA analysis
Liu-Guan **Ding**, Xin-Xin Cao, Zhi-Wei Wang, Gui-Ming Le
2016
http://arxiv.org/pdf/1604.05303v1.pdf

Dark Post-Flare Loops Observed by Solar Dynamics Observatory
Qiao **Song**, Jing-Song Wang, Xueshang Feng, Xiaoxin Zhang
ApJ **2016**
http://arxiv.org/pdf/1604.01510v1.pdf

MULTI-VIEWPOINT OBSERVATIONS OF A WIDELY DISTRIBUTED SOLAR ENERGETIC PARTICLE EVENT: THE ROLE OF EUV WAVES AND WHITE-LIGHT SHOCK SIGNATURES
A. **Kouloumvakos**1, S. Patsourakos1, A. Nindos1, A. Vourlidas2, A. Anastasiadis3, A. Hillaris4, andI. Sandberg3
2016 ApJ 821 31 DOI: 0004-637X/821/1/31

The spectroscopic imprint of the pre-eruptive configuration resulting into two major coronal mass ejections
Petros **Syntelis**, Costis Gontikakis, Spiros Patsourakos, Kanaris Tsinganos
A&A **2016**
http://arxiv.org/pdf/1602.03680v1.pdf

THE MAJOR GEOEFFECTIVE SOLAR ERUPTIONS OF 2012 MARCH 7: COMPREHENSIVE SUN-TO-EARTH ANALYSIS
S. **Patsourakos**1, M. K. Georgoulis2, A. Vourlidas3, A. Nindos1, …..
2016 ApJ 817 14

Possible ground level enhancements at the beginning of the maximum of Solar Cycle 24.
Belov, A., Eroshenko, E., Kryakunova, O., Nikolayevskiy, N., Malimbayev,
A., Tsepakina, I., Yanke, V.,
Aug. 2015. J. Phys. Conf. Ser. 632 (1), 012063.
http://iopscience.iop.org/article/10.1088/1742-6596/632/1/012063/pdf

КИНЕМАТИКА КВМ И СВЯЗАННЫХ УДАРНЫХ ВОЛН ПО ДАННЫМ LASCO: СРАВНИТЕЛЬНЫЙ АНАЛИЗ
Файнштейн В.Г.1, Пичуев В.А.1, Егоров Я.И.1, Загайнова Ю.С.
Пулково *«Солнечная и солнечно-земная физика – 2015», с.359*

Cluster of solar active regions and onset of coronal mass ejections.
Wang J X, Zhang Y Z, He H, et al.
SCIENCE CHINA Physics, Mechanics & Astronomy (Sci China-Phys Mech Astron), **2015**, 58: 599601
http://link.springer.com/journal/11433/58/9/page/1

Results of a Measurement of Solar Neutrons Emitted on March 5, 2012 using a Fiber-type neutron monitor onboard the SEDA-AP attached to the ISS
K. **Koga**, H. Matsumoto, O. Okudaira, T. Goka, T. Obara, S. Masuda, Y. Muraki, S. Shibata, T. Yamamoto
Proceeding of the 34th International Cosmic Ray Conference in Hague in August, 2015, **2015**
http://arxiv.org/ftp/arxiv/papers/1508/1508.04927.pdf

Type II and Type III Radio Bursts and their Correlation with Solar Energetic Proton Events
L.M. **Winter**, K. Ledbetter

ApJ **2015**
http://arxiv.org/pdf/1507.01620v1.pdf

Formation of Magnetic Flux Ropes during Confined Flaring Well Before the Onset of a Pair of Major Coronal Mass Ejections
Georgios **Chintzoglou**, Spiros Patsourakos, Angelos Vourlidas
ApJ **2015**
http://arxiv.org/pdf/1507.01165v1.pdf

Flaring NOAA AR 11429
L. **Győri**
Solar Physics **2015**

A Simple Way to Estimate the Soft X-ray Class of Far-Side Solar Flares Observed with STEREO/EUVI
I.M. **Chertok** (1), A.V. Belov (1), V.V. Grechnev (2)
Solar Phys. **2015**

Observation of solar high energy gamma and X-ray emission and solar energetic particles
Alexei **Struminsky**, Weiqun Gan
24th European Cosmic Ray Symposium, Kiel, September 2014, **2015**

Why Is the Great Solar Active Region 12192 CME-Poor?
Xudong **Sun**, Monica G. Bobra, J. Todd Hoeksema, Yang Liu, Yan Li, Chenglong Shen, Sebastien Couvidat, Aimee A. Norton, George H. Fisher
ApJL **2015**
http://arxiv.org/pdf/1502.06950v1.pdf

How do fast impulse CMEs related to powerful flares but unrelated to eruptive filaments appear and move?
Iu.S. **Zagainova**, V.G. Fainshtein
Advances in Space Research, Volume 55, Issue 3, 1 February **2015**, Pages 822–834
http://www.sciencedirect.com/science/article/pii/S0273117714003391

Prominence Activation by Coronal Fast Mode Shock
Takuya **Takahashi**, Ayumi Asai, Kazunari Shibata
2015
http://arxiv.org/pdf/1501.01592v1.pdf

Structure and Evolution of Magnetic Fields Associated with Solar Eruptions (Invited Review)
Haimin **Wang**, Chang Liu
Research in Astronomy and Astrophysics, **2015**
http://arxiv.org/pdf/1412.8676v1.pdf **File**

Transit time of CME/shock associated with four major geo-effective CMEs in solar cycle 24
M. Syed **Ibrahim**, A. Shanmugaraju, M. Bendict Lawrance
Advances in Space Research, Volume 55, Issue 1, 1 January **2015**, Pages 407–415
http://www.sciencedirect.com/science/article/pii/S0273117714006139

Solar Flare Prediction Using SDO/HMI Vector Magnetic Field Data with a Machine-Learning Algorithm
Monica G. **Bobra**, Sebastien Couvidat
ApJ, 2014
http://arxiv.org/pdf/1411.1405v1.pdf

IMPULSIVE AND LONG DURATION HIGH-ENERGY GAMMA-RAY EMISSION FROM THE VERY BRIGHT 2012 MARCH 7 SOLAR FLARES
M. **Ajello**1, A. Albert2, A. Allafort2, L. Baldini3, G. Barbiellini4,5, D. Bastieri6,7, R. et. al
Astrophysical Journal, 789:20 (15pp), **2014**
https://iopscience.iop.org/article/10.1088/0004-637X/789/1/20/pdf

NEW INSIGHTS INTO THE PHYSICAL NATURE OF CORONAL MASS EJECTIONS AND ASSOCIATED WAVES/SHOCKS WITHIN THE FRAMEWORK OF THREE-DIMENSIONAL STRUCTURE
Ryun-Young **Kwon**, Jie Zhang, and Oscar Olmedo
ApJ, **2014**
http://spaceweather.gmu.edu/public/rkwon/ ; **File**

Proton activity of the Sun in current solar cycle 24
Chuan **Li**, Leonty Miroshnichenko, Cheng Fang
RAA (Research in Astronomy and Astrophysics), **2014**
http://arxiv.org/pdf/1408.2308v1.pdf

The solar type II radio bursts of 7 March 2012: detailed simulation analyses†
J. M. **Schmidt**, I. H. Cairns, and V. V. Lobzin
JGR, **2014**

Magnetic Field Restructuring Associated with Two Successive Solar Eruptions
Rui **Wang**, Ying D. Liu, Zhongwei Yang, Huidong Hu
2014
http://arxiv.org/pdf/1407.4004v1.pdf

Combined Multipoint Remote and in situ Observations of the Asymmetric Evolution of a Fast Solar Coronal Mass Ejection
T. **Rollett**1,2, C. Möstl1,2, M. Temmer1, R. A. Frahm3, J. A. Davies4, A. M. Veronig1, B. Vršnak5, U. V. Amerstorfer1, C. J. Farrugia6, T. Žic5, and T. L. Zhang
2014 ApJ 790 L6

Statistical survey of widely spread out solar electron events observed with STEREO and ACE with special attention to anisotropies
N. **Dresing**, R. G?mez-Herrero, B. Heber, A. Klassen, O. Malandraki , W. Dr?ge , and Y. Kartavykh
E-print, July 2014; A&A, Volume 567, A27, July **2014; File**

High speed photospheric material flow observed at the polarity inversion line of a delta-type sunspot producing an X5.4 flare on 7 March 2012
Shimizu, T., Lites, B.W., and Bamba, Y.
E-print, June **2014**; PASJ, Hinode special issue 66 (SP1), S14 (1–10) **2014**
http://arxiv.org/pdf/1406.1617v1.pdf
http://pasj.oxfordjournals.org/content/66/SP1/S14.full.pdf+html

Propagation of the 2012 March Coronal Mass Ejections from the Sun to Heliopause
Ying D. **Liu**, John D. Richardson, Chi Wang, Janet G. Luhmann
ApJL, **2014**
http://arxiv.org/pdf/1405.6086v1.pdf

Solar particle event detected by ALTEA on board the International Space Station The March 7th, 2012 X5.4 flare
Luca Di **Fino**1,2*, Veronica Zaconte1,2, Marco Stangalini3, Roberta Sparvoli1,2, Piergiorgio Picozza1,2, Roberto Piazzesi1, Livio Narici1,2, Marianna Larosa1,2, Dario Del Moro1, Marco Casolino2,4, Francesco Berrilli1 and Stefano Scardigli

J. Space Weather Space Clim. 4 (**2014**) A19
http://www.swsc-journal.org/articles/swsc/pdf/2014/01/swsc130060.pdf

> 25 MeV Proton Events Observed by the High Energy Telescopes on the STEREO A and B Spacecraft and/or at Earth During the First ~ Seven Years of the STEREO Mission
I. G. **Richardson**, T. T. von Rosenvinge, H. V. Cane, E. R. Christian, C. M. S. Cohen, A. W. Labrador, R. A. Leske, R. A. Mewaldt, M. E. Wiedenbeck, E. C. Stone
Solar Phys., **2014, File**

Connecting speeds, directions and arrival times of 22 coronal mass ejections from the Sun to 1 AU
C. **Möstl**, K. Amla, J. R. Hall, P. C. Liewer, E. M. De Jong, R. C. Colaninno, A. M. Veronig, T. Rollett, M. Temmer, V. Peinhart, J. A. Davies, N. Lugaz, Y. D. Liu, C.J. Farrugia, J. G. Luhmann, B. Vršnak, R. A. Harrison, A. B. Galvin
ApJ, **2014**
http://arxiv.org/pdf/1404.3579v1.pdf

The interplanetary causes of geomagnetic activity during the 7–17 March 2012 interval: a CAWSES II overview
Bruce T. **Tsurutani**1*, Ezequiel Echer2, Kazunari Shibata3, Olga P. Verkhoglyadova1,4, Anthony J. Mannucci1, Walter D. Gonzalez2, Janet U. Kozyra5 and Martin Pätzold
J. Space Weather Space Clim. 4 (**2014**) A02

Type II solar radio bursts predicted by 3D MHD CME and kinetic radio emission simulations†
J. M. **Schmidt***, Iver H. Cairns
JGR, **2014**

Sun-to-Earth Analysis of a Major Geoeffective Solar Eruption within the Framework of the Hellenic National Space Weather Research Network
Patsourakos S.
2013
http://www.helas.gr/conf/2013/talks/S_1/patsourakos.pdf
http://proteus.space.noa.gr/~hnswrn/

Hurricane Season in the Inner Heliosphere: Observations of Coronal Mass Ejections during Solar Maximum **Review**
A. **Vourlidas**
The 11th Hellenic Astronomical Conference, 8-12 September **2013**, Athens; **File of Presentation**
http://www.helas.gr/conf/2013/presentations.php

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study†
H. **Xie**, O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades
JGR, **2013, File**

THE SPATIAL AND TEMPORAL DEPENDENCE OF CORONAL HEATING BY ALFVÉN WAVE TURBULENCE
M. **Asgari-Targhi**, A. A. van Ballegooijen, S. R. Cranmer, and E. E. DeLuca
2013 ApJ 773 111

СОЛНЕЧНЫЕ ПРОТОННЫЕ СОБЫТИЯ В КОНЦЕ 23-ГО И НАЧАЛЕ 24-ГО СОЛНЕЧНЫХ ЦИКЛОВ, ЗАРЕГИСТРИРОВАННЫЕ В ЭКСПЕРИМЕНТЕ ПАМЕЛА
Базилевская Г.А., Майоров А.Г., Малахов В.В., Михайлов В.В., Адриани О., Барбарино Д.С., Белотти Р., Боецио М., Богомолов Э.А., Бонвичини В., Бонджи М., Бонеки Л., Борисов С.В., Боттаи С., Бруно А., Вакки А., Вануччини Е., Васильев Г.И., Воронов С.А., Ву Ю. и др.

Известия РАН, Серия физическая, том 77, № 5, с. 557–560, **2013**.

Relations between strong high-frequency microwave bursts and proton events
Victor **Grechnev**1, Natalya Meshalkina1, Ilya Chertok2, Valentin Kiselev1
E-print, Aug **2013**; Publ. Astron. Soc. Japan, **2013**

Spectral diagnostics with the SDO EVE flare lines
G. **Del Zanna**, T.N. Woods
E-print, May **2013**, A&A

ON SUN-TO-EARTH PROPAGATION OF CORONAL MASS EJECTIONS
Ying D. **Liu**1,2, Janet G. Luhmann2, Noé Lugaz3, Christian Möstl2,4, Jackie A. Davies5, Stuart D. Bale2, and Robert P. Lin
2013 ApJ 769 45, **File**

IMPULSIVE AND LONG DURATION HIGH-ENERGY GAMMA-RAY EMISSION FROM THE VERY BRIGHT 2012 MARCH 7 SOLAR FLARES
M. **Ajello**2, A. Albert3, A. Allafort4, L. Baldini5, G. Barbiellini6,7, D. Bastieri et al.
Fermi-LAT collaboration
E-print, April **2013, File**; ApJ 789 20 **2014**

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES
M. **Ackermann**2, M. Ajello3, A. Albert4, A. Allafort5,1, L. Baldini6, G. Barbiellini7,8, D. Bastieri et al.
Fermi-LAT collaboration
E-print, April **2013, File**; **2014** ApJ 789 20

Intense solar near-relativistic electron events at 0.3 AU
David **Lario***, George C. Ho, Edmond C., Roelof, Brian J. Anderson, Haje Korth
Journal of Geophysical Research: Space Physics, Volume 118, Issue 1, pages 63–73, January **2013**

Solar energetic particle events in 2006-2012 in the PAMELA experiment data
G A **Bazilevskaya** et al
2013 J. Phys.: Conf. Ser. 409 012188

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

Episodic Chromospheric Evaporation in Flare Loop Strands Observed with EIS
Jeff **Brosius**
EIS nugget, Dec **2012**
http://msslxr.mssl.ucl.ac.uk:8080/SolarB/nuggets/nugget_2012nov.jsp

THE ABRUPT CHANGES IN THE PHOTOSPHERIC MAGNETIC AND LORENTZ FORCE VECTORS DURING SIX MAJOR NEUTRAL-LINE FLARES
G. J. D. Petrie
2012 ApJ 759 50

Dimmings and Sustained Gamma-Ray Events
Hugh **Hudson** and Nicola Omodei
RHESSI Science Nugget. No. 179, June **2012**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Dimmings_and_Sustained_Gamma-Ray_Events

7-9 March

Interplanetary Coronal Mass Ejection Associated Forbush Decreases in Neutron Monitors
Christopher **Light**, Veronica Bindi, Cristina Consolandi, Claudio Corti, Christopher Freeman, Andrew Kuhlman, Matteo Palermo, and Siqi Wang
2020 ApJ 896 133
https://sci-hub.tw/https://iopscience.iop.org/article/10.3847/1538-4357/ab8816

On the evolution of pre-flare patterns of a 3-dimensional model of AR 11429
M. B. **Korsos**, S. Poedts, N. Gyenge, M. K. Georgoulis, S. Yu, S. K. Bisoi, Y. Yan, M. S. Ruderman, R. Erdelyi
2018
https://arxiv.org/pdf/1801.00433.pdf

Halo Coronal Mass Ejections during Solar Cycle 24: reconstruction of the global scenario and geoeffectiveness
Camilla **Scolini**, Mauro Messerotti, Stefaan Poedts, Luciano Rodriguez
Journal of Space Weather and Space Climate 2017
https://arxiv.org/pdf/1712.05847.pdf **File**

Interplanetary Magnetic Flux Ropes as Agents Connecting Solar Eruptions and Geomagnetic Activities
K. **Marubashi**, K.-S. Cho, H. Ishibashi
Solar Physics December **2017**, 292:189
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1204-2.pdf

Understanding Problem Forecasts of ISEST Campaign Flare-CME Events
David **Webb**, Nariaki Nitta
Solar Physics October **2017**, 292:142 **File**

Electric-Current Neutralization, Magnetic Shear, and Eruptive Activity in Solar Active Regions
Yang **Liu**, Xudong Sun, Tibor Török, Viacheslav S. Titov, James E. Leake
ApJ **2017**
https://arxiv.org/pdf/1708.04411.pdf

Solar Activity from 2006 to 2014 and Short-term Forecasts of Solar Proton Events Using the ESPERTA Model
T. **Alberti**1, M. Laurenza2, E. W. Cliver3, M. Storini2, G. Consolini2, and F. Lepreti
2017 ApJ 838 59 **File**
http://sci-hub.cc/10.3847/1538-4357/aa5cb8

Solar Activity Parameters and Associated Forbush Decreases During the Minimum Between Cycles 23 and 24 and the Ascending Phase of Cycle 24
D. **Lingri**, H. Mavromichalaki , A. Belov, E. Eroshenko, V. Yanke, A. Abunin, M. Abunina
Solar Phys. **2016**

Webb_ISEST (International Study for Earth-Affecting Solar Transients) _MM WG4 Campaign Events_2014, File
See http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_ICME%5CCME_Lists

7-12 March

Magnetic Structure in Successively Erupting Active Regions: Comparison of Flare-Ribbons with Quasi-Separatrix Layers

P. **Vemareddy**
Front. Phys **2021**
https://arxiv.org/pdf/2109.14583.pdf

Improved Approach in the Coupling Function Between Primary and Ground Level Cosmic Ray Particles Based on Neutron Monitor Data
L. **Xaplanteris**, M. Livada, H. Mavromichalaki, L. Dorman, M. K. Georgoulis & T. E. Sarris
Solar Physics volume 296, Article number: 91 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01836-y.pdf
https://doi.org/10.1007/s11207-021-01836-y

Space weather: the solar perspective -- an update to Schwenn (2006) **Review**
Manuela **Temmer**
Living Reviews in Solar Physics **2021**
https://arxiv.org/pdf/2104.04261.pdf

Galactic cosmic ray spectral index: the case of Forbush decreases of March 2012
M. **Livada**, H. Mavromichalaki,C. Plainaki
Astrophysics and Space Science January **2018**, 363:8
http://sci-hub.tw/10.1007/s10509-017-3230-9

Halo Coronal Mass Ejections during Solar Cycle 24: reconstruction of the global scenario and geoeffectiveness
Camilla **Scolini**, Mauro Messerotti, Stefaan Poedts, Luciano Rodriguez
Journal of Space Weather and Space Climate 2017
https://arxiv.org/pdf/1712.05847.pdf **File**

Examination of the relationship between riometer-derived absorption and the integral proton flux in the context of modeling polar cap absorption
R. A. D. **Fiori**, D. W. Danskin
Space Weather Volume 14, Issue 11, Version of Record online: 15 NOV **2016**

8 March
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Rigidity dependence of Forbush decreases in the energy region exceeding the sensitivity of neutron monitors
M.**Savić** N.Veselinović A.Dragić D.Maletić D.Joković R.Banjanac V.Udovičić
Advances in Space Research Volume 63, Issue 4, 15 February **2019**, Pages 1483-1489

Comparison of Solar Activity Parameters and Associated Forbush Decreases in Solar Cycles 23 and 24
Beena **Bhatt** & Harish Chandra
Solar Phys. 298, Article number: 132 (**2023**)
https://doi.org/10.1007/s11207-023-02227-1

The application of heliospheric imaging to space weather operations: Lessons learned from published studies **Review**
Richard A. **Harrison**, Jackie A. Davies, Doug Biesecker, Mark Gibbs
Space Weather Volume 15, Issue 8 August **2017** Pages 985–1003
http://onlinelibrary.wiley.com/doi/10.1002/2017SW001633/full

Forbush Decreases during the DeepMin and MiniMax of Solar Cycle 24
D. Lingri, H. Mavromichalaki, A. Belov, E. Eroshenko, V. Yanke, A. Abunin, M. Abunina
XXV European Cosmic Ray Symposium, Turin, Sept. 4-9 2016 2016
https://arxiv.org/pdf/1612.08900v1.pdf

TRANSIENT GALACTIC COSMIC-RAY MODULATION DURING SOLAR CYCLE 24: A COMPARATIVE STUDY OF TWO PROMINENT FORBUSH DECREASE EVENTS
L.-L. **Zhao**1,2 and H. Zhang
2016 ApJ 827 13

The radial speed-expansion speed relation for Earth-directed CMEs
P. **Mäkelä**, N. Gopalswamy, S. Yashiro
Space Weather Volume 14, Issue 5 May **2016** Pages 368–378 **File**
http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf

Solar Activity Parameters and Associated Forbush Decreases During the Minimum Between Cycles 23 and 24 and the Ascending Phase of Cycle 24
D. **Lingri**, H. Mavromichalaki , A. Belov, E. Eroshenko, V. Yanke, A. Abunin, M. Abunina
Solar Phys. **2016**

Enhanced Acoustic Emission in Relation to the Acoustic Halo Surrounding Active Region 11429
Chris S. **Hanson**, Alina C. Donea, K.D. Leka
Solar Phys., **2015**
http://arxiv.org/pdf/1507.03447v1.pdf

Prominence and Filament Eruptions Observed by the Solar Dynamics Observatory: Statistical Properties, Kinematics, and Online Catalog
Patrick I. **McCauley**, Yingna Su, Nicole Schanche, Kaitlin E. Evans, Chuan Su, Sean McKillop, Katharine K. Reeves
Solar Phys. **2015**
http://arxiv.org/pdf/1505.02090v1.pdf

8-9 March - FD~12% and GMS Dst ~-139 nT от эрупции 7 марта

8-11 March

Данилова О.А., Птицына Н.Г., Тясто М.И., Сдобнов В.Е.
Изменения жесткостей обрезания космических лучей во время бури 8–11 марта 2012 г. в период CAWSES-II.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА **Том 9 № 2 , 2023** С. 86–93. Аннотация / Полный русский текст (PDF)

Thermosphere modeling capabilities assessment: geomagnetic storms
Sean **Bruinsma**1*, Claude Boniface1, Eric K. Sutton2 and Mariangel Fedrizzi3
J. Space Weather Space Clim. **2021**, 11, 12
https://www.swsc-journal.org/articles/swsc/pdf/2021/01/swsc200061.pdf

9 March – AR 1429 has unleashed another strong solar flare, an M6-class eruption at 0358 UT. The blast hurled a coronal mass ejection (movie) almost directly toward Earth.
Хорошая корональная волна. Prolonged gamma

The Temperature and Density of a Solar Flare Kernel Measured from Extreme Ultraviolet Lines of O IV
Peter R. **Young**
ApJ **2024**
https://arxiv.org/pdf/2401.12390.pdf

ПРОСТРАНСТВЕННЫЕ И ВРЕМЕННЫЕ ОСОБЕННОСТИ ПОВЕДЕНИЯ МИКРОВОЛНОВОГО И УЛЬТРАФИОЛЕТОВОГО ИЗЛУЧЕНИЯ В ЭРУПТИВНЫХ СОБЫТИЯХ

БАКУНИНА И.А.[1], **МЕЛЬНИКОВ В.Ф.**[2], **ШАИН А.В.**[2], **АБРАМОВ-МАКСИМОВ В.Е.**[2], **ОРГАЧЕВ А.С.**[3]

Изв. Крао Том: 118Номер: 1 Год: 2022 Страницы: 65-74
https://www.elibrary.ru/download/elibrary_48073416_76156594.pdf

Особенности спорадических вариаций плотности и анизотропии галактических космических лучей в 24-м цикле солнечной активности.
Григорьев В. Г., Герасимова С. К., Гололобов П. Ю., Стародубцев С. А., Зверев А. С.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 8. **2022**. № 1 С. 34–38.
https://naukaru.ru/ru/storage/viewWindow/87302

Magnetic Structure in Successively Erupting Active Regions: Comparison of Flare-Ribbons with Quasi-Separatrix Layers
P. **Vemareddy**
Front. Phys **2021**
https://arxiv.org/pdf/2109.14583.pdf

First Fermi-LAT Solar Flare Catalog
M. **Ajello**1, L. Baldini2, D. Bastieri3,4, R. Bellazzini5, A. Berretta6, E. Bissaldi7,8, R. D. Blandford9, R. Bonino10,11, P. Bruel12, S. Buson13Show full author list
2021 ApJS 252 13
https://arxiv.org/pdf/2101.10010.pdf **File**
https://doi.org/10.3847/1538-4365/abd32e

Energetic Proton Back-Precipitation onto the Solar Atmosphere in Relation to Long-Duration Gamma-Ray Flares
Adam **Hutchinson**, Silvia Dalla, Timo Laitinen, Georgia A. de Nolfo, Alessandro Bruno, James M. Ryan
ApJ **2020**
https://arxiv.org/pdf/2012.05146.pdf **File**

Case study on the identification and classification of small-scale flow patterns in flaring active region
E. **Philishvili**1,2, B. M. Shergelashvili3,2,4, S. Buitendag5, J. Raes1, S. Poedts1,6 and M. L. Khodachenko3,7,8
A&A 645, A52 (**2021**)
https://arxiv.org/pdf/2011.07634.pdf
https://doi.org/10.1051/0004-6361/202038895

Recurring Homologous Solar Eruptions in NOAA AR 11429
Suman K. **Dhakal**, Jie Zhang, Panditi Vemareddy, Nishu Karna
ApJ **2020**
https://arxiv.org/pdf/2008.03447.pdf

Fermi Large Area Telescope observations of solar flares during the 24th solar cycle
Melissa **Pesce-Rollins**
Presentation at the Fleishman Webinar Nov. 13, **2019**
http://www.ioffe.ru/LEA/SF_AR/files/FermiLATSolarFlares_webinar.pdf

On the Shock Source of Sustained Gamma-Ray Emission from the Sun
N **Gopalswamy**, P. Makela, S. Yashiro, A. Lara, S. Akiyama, H. Xie
18th International Astrophysics Conference, Pasadena, CA, February 18 to 22, 2019 **2019**
https://arxiv.org/ftp/arxiv/papers/1907/1907.13318.pdf **File**

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE **Thesis Catalog (2010-2017)**
Allafort, A. J.
(**2018**). PhD thesis, Stanford Univ. **File**
https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

Magnetic Flux Reconnection in Flaring Active Regions with Sustained Gamma-Ray Emission
S. W. **Kahler**1, E. W. Cliver2, and M. Kazachenko3
2018 ApJ 868 81
sci-hub.tw/10.3847/1538-4357/aae9d8

Interplanetary Type II Radio Bursts from Wind/WAVES and Sustained Gamma-Ray Emission from Fermi/LAT: Evidence for Shock Source
Nat **Gopalswamy**1, Pertti Mäkelä1,2, Seiji Yashiro1,2, Alejandro Lara1,2, Hong Xie1,2, Sachiko Akiyama1,2, and Robert J. MacDowall1
2018 ApJL 868 L19
http://iopscience.iop.org/article/10.3847/2041-8213/aaef36/pdf **File**

Statistics of coronal dimmings associated with coronal mass ejections. I. Characteristic dimming properties and flare association
Karin **Dissauer**, Astrid M. Veronig, Manuela Temmer, Tatiana Podladchikova, Kamalam Vanninathan
ApJ **2018**
https://arxiv.org/pdf/1807.05056.pdf

Plasma diagnostics of coronal dimming events
Kamalam Vanninathan, Astrid M. Veronig, Karin Dissauer, Manuela Temmer
ApJ **2018**
https://arxiv.org/pdf/1802.06152.pdf

Characteristics of Sustained >100 γ-ray Emission Associated with Solar Flares
G. H. **Share**, R. J. Murphy, A. K. Tolbert, B. R. Dennis, S. M. White, R. A. Schwartz, and A. J. Tylka
ApJ Supplement **2017**
http://www.astro.umd.edu/~share/publications/share_2017.pdf **File**

Seismology of contracting and expanding coronal loops using damping of kink oscillations by mode coupling
D.J. **Pascoe**, A.J.B. Russell, S.A. Anfinogentov, P.J.A. Simões, C.R. Goddard, V.M. Nakariakov, L. Fletcher
A&A 607, A8 **2017**
http://www2.warwick.ac.uk/fac/sci/physics/staff/research/davidpascoe/seis_contract.pdf
https://www.aanda.org/articles/aa/pdf/2017/11/aa30915-17.pdf

Electric-Current Neutralization, Magnetic Shear, and Eruptive Activity in Solar Active Regions
Yang **Liu**, Xudong Sun, Tibor Török, Viacheslav S. Titov, James E. Leake
ApJ **2017**
https://arxiv.org/pdf/1708.04411.pdf

Electric-Current Neutralization, Magnetic Shear, and Eruptive Activity in Solar Active Regions
Yang **Liu**, Xudong Sun, Tibor Török, Viacheslav S. Titov, James E. Leake
ApJ **2017**
https://arxiv.org/pdf/1708.04411.pdf

Sunspots, Starspots, and Elemental Abundances
G. A. **Doschek** and H. P. Warren
2017 ApJ 844 52
http://sci-hub.cc/10.3847/1538-4357/aa7bea

Evolution of a Halo Coronal Mass Ejection of March 09, 2012 Associated with EUV Waves
Fernandes, F. C. R.; Sampaio, L. S.; Cunha-Silva, R. D.
Ground-based Solar Observations in the Space Instrumentation Era
ASP Conference Series, Vol. 504, p. 67, **2016**
http://aspbooks.org/publications/504/067.pdf

Measuring Velocities in the Early Stage of an Eruption: Using "Overlappogram" Data from Hinode EIS
Louise K. **Harra**1, Hirohisa Hara2, George A. Doschek3, Sarah Matthews1, Harry Warren3, J. Leonard Culhane1, and Magnus M. Woods1
2017 ApJ 842 58
http://sci-hub.cc/10.3847/1538-4357/aa7411

Analysis and modelling of recurrent solar flares observed with Hinode/EIS on March 9, 2012
V. **Polito**, G. Del Zanna, G. Valori, E. Pariat, H. E. Mason, J. Dudik, M. Janvier
2016
https://arxiv.org/pdf/1612.03504v1.pdf

Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions
Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
ApJ **2016**
https://arxiv.org/pdf/1611.05047v1.pdf

Decimetric and metric digital solar radio spectrometers of the Yunnan Astronomical Observatories and the first-light results
G. **Gao**, M. Wanga, L. Donga, N. Wu, J. Lin
New Astron. Volume 30, July **2014**, Pages 68–78
http://www.sciencedirect.com/science/article/pii/S1384107614000153

The Energetics of White-light Flares Observed by SDO/HMI and RHESSI
Nengyi **Huang**, Yan Xu, Haimin Wang
Research in Astronomy and Astrophysics **2016**
http://arxiv.org/pdf/1608.06015v1.pdf

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. I. THE CASE FOR BLAST WAVES
T. A. **Howard**1 and V. J. Pizzo
2016 ApJ 824 92 **File**

Automatic Detection of Magnetic delta in Sunspot Groups
Sreejith **Padinhatteeri**, Paul A. Higgins, D. Shaun Bloomfield, Peter T. Gallagher
Solar Phys. **2015**
http://arxiv.org/pdf/1510.06413v1.pdf

Results of a Measurement of Solar Neutrons Emitted on March 5, 2012 using a Fiber-type neutron monitor onboard the SEDA-AP attached to the ISS
K. **Koga**, H. Matsumoto, O. Okudaira, T. Goka, T. Obara, S. Masuda, Y. Muraki, S. Shibata, T. Yamamoto

Proceeding of the 34th International Cosmic Ray Conference in Hague in August, 2015, **2015**
http://arxiv.org/ftp/arxiv/papers/1508/1508.04927.pdf

The Properties of Solar Energetic Particle Event-Associated Coronal Mass Ejections Reported in Different CME Catalogs
Ian G. **Richardson**, Tycho T. von Rosenvinge, Hilary V. Cane
Solar Phys. Volume 290, Issue 6, pp 1741-1759 **2015 File**
http://arxiv.org/pdf/1505.03071v1.pdf
https://sci-hub.ru/10.1007/s11207-015-0701-4

A unified view of coronal loop contraction and oscillation in flares
Alexander J. B. **Russell**, Paulos J. A. Simoes, Lyndsay Fletcher
A&A **2015**
http://arxiv.org/pdf/1506.07716v1.pdf

Observation of solar high energy gamma and X-ray emission and solar energetic particles
Alexei **Struminsky**, Weiqun Gan
24th European Cosmic Ray Symposium, Kiel, September 2014, **2015**

How do fast impulse CMEs related to powerful flares but unrelated to eruptive filaments appear and move?
Iu.S. **Zagainova**, V.G. Fainshtein
Advances in Space Research, Volume 55, Issue 3, 1 February **2015**, Pages 822–834
http://www.sciencedirect.com/science/article/pii/S0273117714003391

Structures in the outer solar atmosphere **Review**
Lyndsay **Fletcher**, Peter J. Cargill, Spiro K. Antiochos, Boris V. Gudiksen
Space Science Reviews **2015**
http://arxiv.org/pdf/1412.7378v1.pdf **File**

Observations of Different Type of Bursts Associatedwith M 6.3 Solar Flares
Z. S. **Hamidi**1,*, N. N. M. Shariff
International Letters of Chemistry, Physics and Astronomy 4, 29-36, **2014**
https://www.academia.edu/5352283/Observations_of_Different_Type_of_Bursts_Associated_with_M_6.3_Solar_Flares?email_work_card=view-paper

The Magnetic Field in the Solar Atmosphere **Review**
Thomas **Wiegelmann**, Julia K. Thalmann, Sami K. Solanki
A&Arv, **2014**
http://arxiv.org/pdf/1410.4214v1.pdf

Effect of Size of the Computational Domain on Spherical Nonlinear Force-Free Modeling of Coronal Magnetic Field Using SDO/HMI Data
Tilaye **Tadesse**, Thomas Wiegelmann, Peter MacNeice
Solar Phys., **2014**
http://arxiv.org/pdf/1409.1775v1.pdf

Stereoscopic observations of the effects of a halo CME on the solar coronal structure⋆
S. **Dolei**, P. Romano, D. Spadaro and R. Ventura
A&A 567, A9 (**2014**)

Propagation of the 2012 March Coronal Mass Ejections from the Sun to Heliopause
Ying D. **Liu**, John D. Richardson, Chi Wang, Janet G. Luhmann
ApJL, **2014**
http://arxiv.org/pdf/1405.6086v1.pdf

КАК ВОЗНИКАЮТ И ДВИЖУТСЯ БЫСТРЫЕ ИМПУЛЬСНЫЕ КВМ, СВЯЗАННЫЕ С МОЩНЫМИ ВСПЫШКАМИ И НЕ СВЯЗАННЫЕ С ЭРУПТИВНЫМИ ВОЛОКНАМИ?
Файнштейн В.Г., Загайнова Ю.С.
ИКИ-**2014**, Сессия: Солнце
http://plasma2014.cosmos.ru/presentations

The interplanetary causes of geomagnetic activity during the 7–17 March 2012 interval: a CAWSES II overview
Bruce T. **Tsurutani**1*, Ezequiel Echer2, Kazunari Shibata3, Olga P. Verkhoglyadova1,4, Anthony J. Mannucci1, Walter D. Gonzalez2, Janet U. Kozyra5 and Martin Pätzold
J. Space Weather Space Clim. 4 (**2014**) A02

SDO observations of a flare's coronal "implosion"
Paulo **Simões**, L. Fletcher, H. Hudson & A. Russell
UKSP Nugget: 42, Dec **2013**.
http://www.uksolphys.org/?p=7616

Implosion of Coronal Loops during the Impulsive Phase of a Solar Flare
P. J. A. **Simões**1, L. Fletcher1, H. S. Hudson1,2, and A. J. B. Russell
2013 ApJ 777 152

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study†
H. **Xie**, O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades
JGR, **2013, File**

Implosion and Oscillation
Paulo **Simões** and Hugh Hudson.
RHESSI Science Nugget No. 204, **2013**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Implosion_and_Oscillation

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES
M. **Ackermann**2, M. Ajello3, A. Albert4, A. Allafort5,1, L. Baldini6, G. Barbiellini7,8, D. Bastieri et al.
Fermi-LAT collaboration
E-print, April **2013, File**; ApJ

CHROMOSPHERIC EVAPORATION IN AN M1.8 FLARE OBSERVED BY THE EXTREME-ULTRAVIOLET IMAGING SPECTROMETER ON HINODE
G. A. **Doschek**1, H. P. Warren1, and P. R. Young
2013 ApJ 767 55

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

10 March– 16:16: C8.0 **пересвет** A=23*2/315=0,15 ←16s 8s→ A=23/315=0.073
прилимб
18:16: M8.4 **пересвет** A=39*2/315=0,25 ←16s 8s→ **17:40** A=38*2/315=0,241

10 March - AR 11430 produced a long duration C8.0 event peaking at 15:52 UTC. The event and the associated CME appears to have triggered the major M8.4 long duration event peaking at 17:44 UTC in AR 11429 (N17W23). An impressive CME was observed in

STEREO imagery after the M8 event. Западная вспышка с относительно слабым микроволновым всплеском (8.8 GHz ~540 sfu) и, соответственно, без протонов. Prolonged gamma

A Double-decker Flux Rope Model for the Solar Eruption on 2012 March 10
Nishu **Karna**1, Suman Dhakal2, Antonia Savcheva3, Jie Zhang2, and Bernhard Kliem4
2024 ApJ 961 11
https://iopscience.iop.org/article/10.3847/1538-4357/ad1187/pdf

Dynamic Evolution of Magnetic Flux Ropes in Active Region 11429. I. EUV Observations
Yin **Zhang**5,1, Jihong Liu2, Baolin Tan1,3, Xiaoshuai Zhu4, and Yihua Yan3,4
2022 ApJ 940 125
https://iopscience.iop.org/article/10.3847/1538-4357/ac9b52/pdf

Investigating pre-eruptive magnetic properties at the footprints of erupting magnetic flux ropes
Wensi **Wang**, Jiong Qiu, Rui Liu, Chunming Zhu, Kai E Yang, Qiang Hu, Yuming Wang
ApJ **2022**
https://arxiv.org/pdf/2211.15909.pdf

Indications of stellar coronal mass ejections through coronal dimmings
Astrid M. **Veronig**, Petra Odert, Martin Leitzinger, Karin Dissauer, Nikolaus C. Fleck, Hugh S. Hudson
Nature Astronomy Volume 5, p. 697-706 **2021**
https://www.nature.com/articles/s41550-021-01345-9.epdf
https://doi.org/10.1038/s41550-021-01345-9
https://arxiv.org/ftp/arxiv/papers/2110/2110.12029.pdf

Multiwavelength Observations of the Formation and Eruption of a Complex Filament
Y. **Zhang**1,2, T. S. Bastian2, J. H. Liu3, S. J. Yu4, S. Feng5, J. Chen1, and Y. H. Yan1,6
2021 ApJ 910 40
https://doi.org/10.3847/1538-4357/abded6
https://iopscience.iop.org/article/10.3847/1538-4357/abded6/pdf

Radio Spectral Imaging of an M8.4 Eruptive Solar Flare: Possible Evidence of a Termination Shock
Yingjie **Luo** (1), Bin Chen (1), Sijie Yu (1), Timothy S. Bastian (2), Samuel Krucker (3)
ApJ **2021**
https://arxiv.org/pdf/2102.06259.pdf

Recurring Homologous Solar Eruptions in NOAA AR 11429
Suman K. **Dhakal**, Jie Zhang, Panditi Vemareddy, Nishu Karna
ApJ **2020**
https://arxiv.org/pdf/2008.03447.pdf

On the Shock Source of Sustained Gamma-Ray Emission from the Sun
N **Gopalswamy**, P. Makela, S. Yashiro, A. Lara, S. Akiyama, H. Xie
18th International Astrophysics Conference, Pasadena, CA, February 18 to 22, 2019 **2019**
https://arxiv.org/ftp/arxiv/papers/1907/1907.13318.pdf **File**

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE Thesis Catalog (2010-2017)
Allafort, A. J.
(**2018**). PhD thesis, Stanford Univ. **File**
https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

Interplanetary Type II Radio Bursts from Wind/WAVES and Sustained Gamma-Ray Emission from Fermi/LAT: Evidence for Shock Source

Nat **Gopalswamy**1, Pertti Mäkelä1,2, Seiji Yashiro1,2, Alejandro Lara1,2, Hong Xie1,2, Sachiko Akiyama1,2, and Robert J. MacDowall1
2018 ApJL 868 L19
http://iopscience.iop.org/article/10.3847/2041-8213/aaef36/pdf **File**

Statistics of coronal dimmings associated with coronal mass ejections. I. Characteristic dimming properties and flare association
Karin **Dissauer**, Astrid M. Veronig, Manuela Temmer, Tatiana Podladchikova, Kamalam Vanninathan
ApJ **2018**
https://arxiv.org/pdf/1807.05056.pdf

A Study of a Compound Solar Eruption with Two Consecutive Erupting Magnetic Structures
Suman K. **Dhakal**1, Georgios Chintzoglou2,3, and Jie Zhang1
2018 ApJ 860 35 DOI 10.3847/1538-4357/aac028

Recent Voyager Evidence for Rapid Transport of Flare-Generated Disturbances by Polar Coronal Hole Streams
D S Intriligator1, W D Miller1, J Intriligator1,2, W Webber3, W Sun4, T Detman1, M Dryer1 and C Deehr4
Journal of Physics: Conference Series, Volume 900, Number 1 012010 2017
http://iopscience.iop.org/article/10.1088/1742-6596/900/1/012010/pdf

Characteristics of Sustained >100 γ-ray Emission Associated with Solar Flares
G. H. **Share**, R. J. Murphy, A. K. Tolbert, B. R. Dennis, S. M. White, R. A. Schwartz, and A. J. Tylka
ApJ Supplement **2017**
http://www.astro.umd.edu/~share/publications/share_2017.pdf **File**

Origin of Radio Enhancements in Type II Bursts in the Outer Corona
Firas **Al-Hamadani**, Silja Pohjolainen, Eino Valtonen
Solar Physics September **2017**, 292:127
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1148-6.pdf

Predicting the magnetic vectors within coronal mass ejections arriving at Earth: 2. Geomagnetic response
N. P. **Savani**, A. Vourlidas, I. G. Richardson, A. Szabo, B. J. Thompson, A. Pulkkinen, M. L. Mays, T. Nieves-Chinchilla, V. Bothmer
Space Weather Volume 15, Issue 2 February **2017** Pages 441–461 DOI: 10.1002/2016SW001458
http://onlinelibrary.wiley.com/doi/10.1002/2016SW001458/full
http://sci-hub.cc/10.1002/2016SW001458

Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions
Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
ApJ **2016**
https://arxiv.org/pdf/1611.05047v1.pdf

Вспышки, выбросы, протонные события
А.В. **Белов**
Геомагн. и аэрономия **2016 File**

Predicting the magnetic vectors within coronal mass ejections arriving at Earth: 2. Geomagnetic response: BZ VALIDATION
N. P. Savani,1,2 A. Vourlidas,3 I. G. Richardson,4,2 A. Szabo,2 B. J.Thompson,2 A. Pulkkinen,2 M. L. Mays,5,2 T. Nieves-Chinchilla,5,2 V.Bothmer6

Space Weather 2016

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics
Markus J. Aschwanden
ApJ 2016
http://arxiv.org/pdf/1605.04952v1.pdf File
http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

Predicting the magnetic vectors within coronal mass ejections arriving at Earth
1. Initial architecture
Savani, N. P.; Vourlidas, A.; Szabo, A.; Mays, M. L.; Thompson, B. J.; Richardson, I. G.; Evans, R.; Pulkkinen, A.; Nieves-Chinchilla, T.
Space Weather , Volume 13, Issue 6 June 2015 Pages 374–385,
http://arxiv.org/pdf/1502.02067v1.pdf File
http://onlinelibrary.wiley.com/doi/10.1002/2015SW001171/full

Type II and Type III Radio Bursts and their Correlation with Solar Energetic Proton Events
L.M. **Winter**, K. Ledbetter
ApJ **2015**
http://arxiv.org/pdf/1507.01620v1.pdf

Observation of solar high energy gamma and X-ray emission and solar energetic particles
Alexei **Struminsky**, Weiqun Gan
24th European Cosmic Ray Symposium, Kiel, September 2014, **2015**

Propagation of the 2012 March Coronal Mass Ejections from the Sun to Heliopause
Ying D. **Liu**, John D. Richardson, Chi Wang, Janet G. Luhmann
ApJL, **2014**
http://arxiv.org/pdf/1405.6086v1.pdf

Connecting speeds, directions and arrival times of 22 coronal mass ejections from the Sun to 1 AU
C. **Möstl**, K. Amla, J. R. Hall, P. C. Liewer, E. M. De Jong, R. C. Colaninno, A. M. Veronig, T. Rollett, M. Temmer, V. Peinhart, J. A. Davies, N. Lugaz, Y. D. Liu, C.J. Farrugia, J. G. Luhmann, B. Vršnak, R. A. Harrison, A. B. Galvin
ApJ, **2014**
http://arxiv.org/pdf/1404.3579v1.pdf

Cosmic ray solar modulation and Forbush decrease analyses based on atmospheric neutron spectrometry at mountain altitude and GEANT4 simulations of extensive air showers
A. **Cheminet**1,2, G. Hubert1,*, V. Lacoste2, D. Maurin3, L. Derome
JGR, Volume 118, Issue 12, pages 7488–7496, December **2013**

The interplanetary causes of geomagnetic activity during the 7–17 March 2012 interval: a CAWSES II overview
Bruce T. **Tsurutani**1*, Ezequiel Echer2, Kazunari Shibata3, Olga P. Verkhoglyadova1,4, Anthony J. Mannucci1, Walter D. Gonzalez2, Janet U. Kozyra5 and Martin Pätzold
J. Space Weather Space Clim. 4 (**2014**) A02

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study†
H. **Xie**, O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades
JGR, **2013, File**

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES
M. **Ackermann**2, M. Ajello3, A. Albert4, A. Allafort5,1, L. Baldini6, G. Barbiellini7,8, D. Bastieri et al.
Fermi-LAT collaboration
E-print, April **2013, File**; ApJ

11 March

THE MAJOR GEOEFFECTIVE SOLAR ERUPTIONS OF 2012 MARCH 7: COMPREHENSIVE SUN-TO-EARTH ANALYSIS
S. **Patsourakos**1, M. K. Georgoulis2, A. Vourlidas3, A. Nindos1, …..
2016 ApJ 817 14

Coronal cavities: observations and implications for the magnetic environment of prominences
Sarah E. **Gibson**
Solar Prominences, Astrophysics and Space Science Library, Volume 415. ISBN 978-3-319-10415-7. Springer International Publishing Switzerland, **2015**, p. 323
https://arxiv.org/pdf/1702.02214.pdf

12 March

http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Properties of Flare-Imminent versus Flare-Quiet Active Regions from the Chromosphere through the Corona I: Introduction of the AIA Active Region Patches (AARPs)
Karin **Dissauer**, KD Leka, Eric L. Wagner
ApJ **2022**
https://arxiv.org/pdf/2212.11251.pdf

EUV imaging and spectroscopy for improved space weather forecasting **Review**
Leon **Golub**1*, Peter Cheimets1, Edward E. DeLuca1, Chad A. Madsen1, Katharine K. Reeves1, Jenna Samra1, Sabrina Savage2, Amy Winebarger2 and Alexander R. Bruccoleri3
J. Space Weather Space Clim. **2020**, 10, 37
https://doi.org/10.1051/swsc/2020040
https://www.swsc-journal.org/articles/swsc/pdf/2020/01/swsc200031.pdf

Connecting 3D evolution of Coronal Mass Ejections to their Source Regions
Satabdwa **Majumdar**, Vaibhav Pant, Ritesh Patel, Dipankar Banerjee
ApJ **2020**
https://arxiv.org/pdf/2007.00923.pdf

Microwave radio emissions as a proxy for coronal mass ejection speed in arrival predictions of interplanetary coronal mass ejections at 1 AU
Carolina Salas **Matamoros**1,2*, Karl Ludwig Klein1 and Gerard Trottet
J. Space Weather Space Clim., 7, A2 (**2017**)
http://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc160027.pdf

Forbush Decreases during the DeepMin and MiniMax of Solar Cycle 24
D. Lingri, H. Mavromichalaki, A. Belov, E. Eroshenko, V. Yanke, A. Abunin, M. Abunina
XXV European Cosmic Ray Symposium, Turin, Sept. 4-9 2016 2016
https://arxiv.org/pdf/1612.08900v1.pdf

The radial speed-expansion speed relation for Earth-directed CMEs
P. **Mäkelä**, N. Gopalswamy, S. Yashiro
Space Weather Volume 14, Issue 5 May **2016** Pages 368–378 **File**

http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf

Kinematic and Energetic Properties of the 2012 March 12 Polar Coronal Mass Ejection
N. **Gopalswamy**1, S. Yashiro1,2, and S. Akiyama
2015 ApJ 809 106
http://arxiv.org/ftp/arxiv/papers/1507/1507.04057.pdf

Magnetic Structure and Dynamics of the Erupting Solar Polar Crown Prominence on 2012 March 12
Yingna **Su**, Adriaan van Ballegooijen, Patrick I. McCauley, Haisheng Ji, Katharine K. Reeves, Edward E. DeLuca
ApJ **2015**
http://arxiv.org/pdf/1505.06826v1.pdf

The dynamics of eruptive prominences **Review**
Nat **Gopalswamy**
Solar Prominences, edited by J.-C. Vial & O. Engvold, Springer, in press (**2014**), Chapter 15, **File**
http://arxiv.org/pdf/1407.2594v1.pdf

12-14 March
Predicting the magnetic vectors within coronal mass ejections arriving at Earth
Savani, N. P.; Vourlidas, A.; Szabo, A.; Mays, M. L.; Thompson, B. J.; Richardson, I. G.; Evans, R.; Pulkkinen, A.; Nieves-Chinchilla, T.
Space Weather Journal , Jan **2015, File**
http://arxiv.org/pdf/1502.02067v1.pdf

Observations of CMEs and Models of the Eruptive Corona **Review**
N. **Gopalswamy**
E-print, Jan **2013**, **File**; Solar wind 13

12-20 March
On the non-Kolmogorov nature of flare-productive solar active regions
Revati S. **Mandage**, R.T.James McAteer
ApJ **2016**
https://arxiv.org/pdf/1611.00830v1.pdf

13 March – 17:35: M7.9 вспышка, **пересвет** на STEREO-A, A=33*2/313=0,21
В 17:45 пересвет становится многоэлементным

13 March - Region 11429 [N18W66] **major long duration M7.9 event peaking at 17:41 UTC. Strong microwave burst (8.8 GHz ~5000 sfu) .**
The latter event was associated with a significant radiation storm and strong type II and IV radio bursts. A fast and wide halo CME was observed as well.

Unveiling the Journey of a Highly Inclined CME: Insights from the March 13, 2012 Event with 110∘ Longitudinal Separation
F. **Carcaboso**, M. Dumbovic, C. Kay, D. Lario, L. K. Jian, L. B. Wilson III, R. Gómez-Herrero, M. Temmer, S. G. Heinemann, T. Nieves-Chinchilla, A. M. Veronig
A&A **2024**
https://arxiv.org/pdf/2401.17501.pdf

Deciphering The Slow-rise Precursor of a Major Coronal Mass Ejection
X. **Cheng**, C. Xing, G. Aulanier, S. K. Solanki, H. Peter, M. D. Ding

ApJL **954** L47 **2023**
https://arxiv.org/pdf/2308.13136.pdf
https://iopscience.iop.org/article/10.3847/2041-8213/acf3e4/pdf

Relationship between solar energetic particle intensities and coronal mass ejection kinematics using STEREO/SECCHI field of view
Anitha **Ravishankar** and Grzegorz Michalek
A&A 646, A142 (**2021**)
https://www.aanda.org/articles/aa/pdf/2021/02/aa39537-20.pdf
https://doi.org/10.1051/0004-6361/202039537
https://arxiv.org/pdf/2102.12640.pdf

A new trigger mechanism for coronal mass ejections: the role of confined flares and photospheric motions in the formation of hot flux ropes
Alexander W **James**, Lucie M Green, Lidia van Driel-Gesztelyi, Gherardo Valori
A&A **2020**
https://arxiv.org/pdf/2010.11204.pdf

Small Size Ground Level Enhancements During Solar Cycle 24
Leonty I. **Miroshnichenko**, Chuan Li & Victor G. Yanke
Solar Physics volume 295, Article number: 102 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01659-3.pdf

On the Relation between Flare and CME during GLE-SEP and Non-GLE-SEP Events
K. A. **Firoz**1,2, W. Q. Gan2, Y.-J. Moon1, J. Rodríguez-Pacheco3, and Y. P. Li2
2019 ApJ 883 91
https://doi.org/10.3847/1538-4357/ab3c4e
https://sci-hub.ru/10.3847/1538-4357/ab3c4e
https://iopscience.iop.org/article/10.3847/1538-4357/ab3c4e/pdf

New Evidence for Third Harmonic Electromagnetic Radiation in Interplanetary Type III Solar Radio Bursts
M. J. **Reiner**, R. J. MacDowall
Solar Physics July **2019**, 294:91
sci-hub.se/10.1007/s11207-019-1476-9

Frequency rising sub-THz emission from solar flare ribbons
E.P. **Kontar**, G.G. Motorina, N.L.S. Jeffrey, Y.T. Tsap, G.D. Fleishman, A.V. Stepanov
A&A **2018**
https://arxiv.org/pdf/1810.03922.pdf

Relationship between Intensity of White-light Flares and Proton Flux of Solar Energetic Particles
Nengyi **Huang**1,2, Yan Xu1,2, and Haimin Wang
2018 Res. Notes AAS 2 7
http://iopscience.iop.org/article/10.3847/2515-5172/aaa602
https://arxiv.org/pdf/1801.04316.pdf

Characterizing Solar Energetic Particle Event Profiles with Two-Parameter Fits
Stephen W. **Kahler**, Alan G. Ling
Solar Physics April **2017**, 292:59
http://link.springer.com/content/pdf/10.1007%2Fs11207-017-1085-4.pdf

Solar Activity from 2006 to 2014 and Short-term Forecasts of Solar Proton Events Using the ESPERTA Model
T. **Alberti**1, M. Laurenza2, E. W. Cliver3, M. Storini2, G. Consolini2, and F. Lepreti

2017 ApJ 838 59 **File**
http://sci-hub.cc/10.3847/1538-4357/aa5cb8

Spectral Trends of Solar Bursts at Sub-THz Frequencies
L. O. T. **Fernandes,** P. Kaufmann, E. Correia, C. G. Giménez de Castro, A. S. Kudaka, A. Marun, P. Pereyra, J.-P. Raulin, A. B. M. Valio
Solar Physics January **2017**, 292:21
http://sci-hub.cc/10.1007/s11207-016-1043-6

Solar Energetic Particle Events with Protons Above 500 MeV Between 1995 and 2015 Measured with SOHO/EPHIN
P. **Kühl**, N. Dresing, B. Heber, A. Klassen
Solar Physics January **2017**, 292:10
http://link.springer.com/article/10.1007/s11207-016-1033-8

Possible ground level enhancements at the beginning of the maximum of Solar Cycle 24.
Belov, A., Eroshenko, E., Kryakunova, O., Nikolayevskiy, N., Malimbayev, A., Tsepakina, I., Yanke, V.,
Aug. **2015**. J. Phys. Conf. Ser. 632 (1), 012063.
http://iopscience.iop.org/article/10.1088/1742-6596/632/1/012063/pdf

PIXEL ANALYSIS OF PHOTOSPHERIC SPECTRAL DATA. I. PLASMA DYNAMICS
Anthony P. **Rasca**1,3,4, James Chen1,4, and Alexei A. Pevtsov
2016 ApJ 832 53

Analysis of intermittency in submillimeter radio and Hard X-Rays during the impulsive phase of a solar flare
C. Guillermo Giménez **de Castro**, Paulo J. A. Simões, Jean-Pierre Raulin, Odilon M. Guimarães Jr
Solar Phys. **2016**
http://arxiv.org/pdf/1605.07677v1.pdf

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics
Markus J. **Aschwanden**
ApJ **2016**
http://arxiv.org/pdf/1605.04952v1.pdf **File**
http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

Origin of the 30 THz emission detected during the 2012 March 13 solar flare at 17:20 UT
G. **Trottet**, J.-P. Raulin, A. MacKinnon, G. Giménez de Castro, P.J.A. Simões, D. Cabezas, V. de La Luz, M. Luoni, P. Kaufmann
Soar Phys. **2015**
http://arxiv.org/pdf/1509.06336v1.pdf

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations
A. **Nindos**, S. Patsourakos, A. Vourlidas, C. Tagikas
ApJ **2015**
http://arxiv.org/pdf/1507.03766v1.pdf

Interplanetary particle transport simulation for warning system for aviation exposure to solar energetic particles
Yûki **Kubo**, Ryuho Kataoka, Tatsuhiko Sato
Earth, Planets and Space **2015**
http://arxiv.org/pdf/1506.00825v1.pdf

The Magnetic Field in the Solar Atmosphere **Review**

Thomas **Wiegelmann**, Julia K. Thalmann, Sami K. Solanki
A&Arv, **2014**
http://arxiv.org/pdf/1410.4214v1.pdf

Proton activity of the Sun in current solar cycle 24
Chuan **Li**, Leonty Miroshnichenko, Cheng Fang
RAA (Research in Astronomy and Astrophysics), **2014**
http://arxiv.org/pdf/1408.2308v1.pdf

Особенности субтерагерцового излучения солнечных вспышек
В.С. **Махмутов**, Г.А. Базилевская, Ю.И. Стожков, А.А. Квашнин
ИКИ-2014, Сессия: Солнце
http://plasma2014.cosmos.ru/presentations

Cosmic ray solar modulation and Forbush decrease analyses based on atmospheric neutron spectrometry at mountain altitude and GEANT4 simulations of extensive air showers
A. **Cheminet**1,2, G. Hubert1,*, V. Lacoste2, D. Maurin3, L. Derome
JGR, Volume 118, Issue 12, pages 7488–7496, December **2013**

The interplanetary causes of geomagnetic activity during the 7–17 March 2012 interval: a CAWSES II overview
Bruce T. **Tsurutani**1*, Ezequiel Echer2, Kazunari Shibata3, Olga P. Verkhoglyadova1,4, Anthony J. Mannucci1, Walter D. Gonzalez2, Janet U. Kozyra5 and Martin Pätzold
J. Space Weather Space Clim. 4 (**2014**) A02

Case Study of a Magnetic Transient in NOAA 11429 Observed by SDO/HMI during the M7.9 Flare on 2012 March 13
Brian J. **Harker** and Alexei A. Pevtsov
2013 ApJ 778 175

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study†
H. **Xie**, O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades
JGR, **2013, File**

СОЛНЕЧНЫЕ ПРОТОННЫЕ СОБЫТИЯ В КОНЦЕ 23-ГО И НАЧАЛЕ 24-ГО СОЛНЕЧНЫХ ЦИКЛОВ, ЗАРЕГИСТРИРОВАННЫЕ В ЭКСПЕРИМЕНТЕ ПАМЕЛА
Базилевская Г.А., Майоров А.Г., Малахов В.В., Михайлов В.В., Адриани О., Барбарино Д.С., Белотти Р., Боецио М., Богомолов Э.А., Бонвичини В., Бонджи М., Бонеки Л., Борисов С.В., Боттаи С., Бруно А., Вакки А., Вануччини Е., Васильев Г.И., Воронов С.А., Ву Ю. и др.
Известия РАН, Серия физическая, том 77, № 5, с. 557–560, **2013**.

A BRIGHT IMPULSIVE SOLAR BURST DETECTED AT 30 THz
P. **Kaufmann**1,2,8, S. M. White3, S. L. Freeland4, R. Marcon5,6, L. O. T. Fernandes1, A. S. Kudaka1, R. V. de Souza1, J. L. Aballay7, G. Fernandez7, R. Godoy7, A. Marun7, A. Valio1, J.-P. Raulin1, and C. G. Giménez de Castro
2013 ApJ 768 134; preprint **File**

POlarization Emission of Millimeter Activity at the Sun (POEMAS): New Circular Polarization Solar Telescopes at Two Millimeter Wavelength Ranges
Adriana **Valio**, P. Kaufmann, C. G. Giménez de Castro, J.-P. Raulin, L. O. T. Fernandes, A. Marun
Solar Physics, April **2013**, Volume 283, Issue 2, pp 651-665

THE FIRST GROUND LEVEL ENHANCEMENT EVENT OF SOLAR CYCLE 24: DIRECT OBSERVATION OF SHOCK FORMATION AND PARTICLE RELEASE HEIGHTS

N. **Gopalswamy**1, H. Xie1,2, S. Akiyama1,2, S. Yashiro1,2, I. G. Usoskin3, and J. M. Davila
2013 ApJ 765 L30, preprint **File**

Solar energetic particle events in 2006-2012 in the PAMELA experiment data
G A **Bazilevskaya** et al
2013 J. Phys.: Conf. Ser. 409 012188

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

14 March – AR **11432 [N15W00], impulsive Flare: M2.8/1N at 15:21 UTC. This flare occurred along the inversion line between the trailing spots of region. Слабое радио, нет протонов. Заметная эрупция. Узкий CME.**

Solar Flare Irradiance: Observations and Physical Modeling
Jeffrey W. **Reep**, David E. Siskind, Harry P. Warren
ApJ **2021**
https://arxiv.org/pdf/2110.06310.pdf

Plasma diagnostics of coronal dimming events
Kamalam **Vanninathan,** Astrid M. Veronig, Karin Dissauer, Manuela Temmer
ApJ **2018**
https://arxiv.org/pdf/1802.06152.pdf

On Critical Height of Torus Instability in Two-Ribbon Solar Flares
Dong **Wang**, Rui Liu, Yuming Wang, Kai Liu, Jun Chen, Jiajia Liu, Zhenjun Zhou, Min Zhang
ApJL **2017**
https://arxiv.org/pdf/1706.03169.pdf

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. I. THE CASE FOR BLAST WAVES
T. A. **Howard**1 and V. J. Pizzo
2016 ApJ 824 92 **File**

The interplanetary causes of geomagnetic activity during the 7–17 March 2012 interval: a CAWSES II overview
Bruce T. **Tsurutani**1*, Ezequiel Echer2, Kazunari Shibata3, Olga P. Verkhoglyadova1,4, Anthony J. Mannucci1, Walter D. Gonzalez2, Janet U. Kozyra5 and Martin Pätzold
J. Space Weather Space Clim. 4 (**2014**) A02

15 March – Regions 11432 (N14W03) again managed to produce an impulsive flare M1.8/1F at 07:52 UTC. This time a weak type II radio burst was associated with the event. A small и узкий, apparently Earth directed CME was observed in STEREO imagery.

15 March - GMS Dst ~-78 nT (от эрупции 13 марта?)
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Unveiling the Journey of a Highly Inclined CME: Insights from the March 13, 2012 Event with 110∘ Longitudinal Separation

F. **Carcaboso**, M. Dumbovic, C. Kay, D. Lario, L. K. Jian, L. B. Wilson III, R. Gómez-Herrero, M. Temmer, S. G. Heinemann, T. Nieves-Chinchilla, A. M. Veronig
A&A **2024**
https://arxiv.org/pdf/2401.17501.pdf

Deriving CME Density From Remote Sensing Data and Comparison to In-Situ Measurements
M. **Temmer** , L. Holzknecht,M. Dumbović , B. Vršnak , N. Sachdeva ,S. G. Heinemann , K. Dissauer, C. Scolini , E. Asvestari , A. M. Veronig , S. J. Hofmeister
JGR Volume126, Issue1 January **2021** e2020JA028380
https://doi.org/10.1029/2020JA028380
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020JA028380

Coronal Condensation in Funnel Prominences as Return Flows of the Chromosphere-Corona Mass Cycle
Liu, Wei; Berger, Thomas E.; and Low, B. C.
2014/01, Nature of Prominences and their role in Space Weather, Proceedings of the International Astronomical Union, IAU Symposium, Volume 300, pp. 441-442
http://sun.stanford.edu/~weiliu/research/publications/2013/2014IAUS_Liu_Berger_Low_funnel-prom.pdf

The interplanetary causes of geomagnetic activity during the 7–17 March 2012 interval: a CAWSES II overview
Bruce T. **Tsurutani**1*, Ezequiel Echer2, Kazunari Shibata3, Olga P. Verkhoglyadova1,4, Anthony J. Mannucci1, Walter D. Gonzalez2, Janet U. Kozyra5 and Martin Pätzold
J. Space Weather Space Clim. 4 (**2014**) A02

16 March
Spatial Distributions of Sunspot Oscillation Modes at Different Temperatures
Zhengkai Wang, Song Feng, Linhua Deng, Yao Meng
Research in Astronomy and Astrophysics **2019**
https://arxiv.org/pdf/1908.04906.pdf

17 March – 20:46 – M1.3 **вспышка; пересвет на STEREO-A,** A=16*2/313=0,1

17 March, 20:39 – Исключительно импульсная M1.3 вспышка, S20W25, II тип

Coronal Cavities in CoMP Observations
Agnieszka **Rumińska**1,2, Urszula Bąk-Stęślicka1, Sarah E. Gibson3, and Yuhong Fan3
2022 ApJ 926 146
https://iopscience.iop.org/article/10.3847/1538-4357/ac469c/pdf

Simulating the Coronal Evolution of AR 11437 using SDO/HMI Magnetograms
Stephanie L. **Yardley**, Duncan H. Mackay, Lucie M. Green
ApJ **2017**
https://arxiv.org/pdf/1712.00396.pdf

Transient Mass Loss Analysis of Solar Observations using Stellar Methods
M. K. **Crosley**, R. A. Osten, C. Norman
2017
https://arxiv.org/pdf/1707.01928.pdf

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. I. THE CASE FOR BLAST WAVES
T. A. **Howard**1 and V. J. Pizzo

2016 ApJ 824 92 **File**

Coronal Condensation in Funnel Prominences as Return Flows of the Chromosphere-Corona Mass Cycle
Liu, Wei; Berger, Thomas E.; and Low, B. C.
2014/01, Nature of Prominences and their role in Space Weather, Proceedings of the International Astronomical Union, IAU Symposium, Volume 300, pp. 441-442
http://sun.stanford.edu/~weiliu/research/publications/2013/2014IAUS_Liu_Berger_Low_funnel-prom.pdf

17-20 March

Comparative Accuracies of Models for Drag Prediction During Geomagnetically Disturbed Periods: A First Principles Model Versus Empirical Models
R. L. **Walterscheid**, M. W. Chen, C.-C. Chao, S. Gegenheimer, J. Cabrera-Guzman, J. McVey
Space Weather e2022SW003332 Volume21, Issue5 **2023**
https://doi.org/10.1029/2022SW003332
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2022SW003332

Simulating the Coronal Evolution of Bipolar Active Regions to Investigate the Formation of Flux Ropes
Stephanie L. **Yardley**, Duncan H. Mackay, Lucie M. Green
Solar Phys. **2020**
https://arxiv.org/pdf/2012.07708.pdf

The role of flux cancellation in eruptions from bipolar active regions
S. L. **Yardley**, L. M. Green, L. Van Driel-Gesztelyi, D. R. Williams, D. H. Mackay
ApJ **2018**
https://arxiv.org/pdf/1808.10635.pdf

18 March – утро, A spectacular CME rocketed away from the sun's northwestern limb during the early hours of March 18th: movie. The probable source was old sunspot AR1429, still active as it transits the far side of the sun.

Association of calcium network bright points with underneath photospheric magnetic patches
Nancy **Narang**, Dipankar Banerjee, Kalugodu Chandrashekhar, Vaibhav Pant
Solar Phys. **2019**
https://arxiv.org/pdf/1902.03764.pdf

Are Halo-like Solar Coronal Mass Ejections Merely a Matter of Geometric Projection Effects?
Ryun-Young **Kwon**, Jie Zhang, and Angelos Vourlidas
2015 ApJ 799 L29
http://spaceweather.gmu.edu/public/rkwon/manuscript_halo_CMEs/manuscript.pdf

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study†
H. **Xie**, O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades
JGR, **2013, File**

20 March

Coronal Cavities in CoMP Observations
Agnieszka **Rumińska**1,2, Urszula Bąk-Stęślicka1, Sarah E. Gibson3, and Yuhong Fan3
2022 ApJ 926 146

https://iopscience.iop.org/article/10.3847/1538-4357/ac469c/pdf

Simulating the Coronal Evolution of AR 11437 using SDO/HMI Magnetograms
Stephanie L. **Yardley**, Duncan H. Mackay, Lucie M. Green
ApJ **2017**
https://arxiv.org/pdf/1712.00396.pdf

21 March – A coronal mass ejection (CME) blasted away from the farside of the sun at 0740 UT. SOHO photographed the cloud expanding at 1550 km/s. The source of the CME is probably old sunspot AR1429, still active as it transits the farside.

Is There a Dynamic Difference between Stealthy and Standard Coronal Mass Ejections?
Beili **Ying**1, Alessandro Bemporad2,1, Li Feng1,3, Nariaki V. Nitta4, and Weiqun Gan1,3
2023 ApJ 942 3
https://iopscience.iop.org/article/10.3847/1538-4357/aca52c/pdf

The Source Locations of Major Flares and CMEs in the Emerging Active Regions
Lijuan **Liu**, Yuming Wang, Zhenjun Zhou, Jun Cui
ApJ **2021**
https://arxiv.org/pdf/2101.07452.pdf

A New Automatic Tool for CME Detection and Tracking with Machine Learning Techniques
Pengyu **Wang**, Yan Zhang, Li Feng, Hanqing Yuan, Yuan Gan, Shuting Li, Lei Lu, Beili Ying, Weiqun Gan, Hui Li
ApJS **2019**
https://arxiv.org/pdf/1907.08798.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

22 March
Onset of the Magnetic Explosion in Solar Coronal Jets in Quiet Regions on the Central Disk
Navdeep K. **Panesar**, Ronald L. Moore, Alphonse C. Sterling
ApJ **2020**
https://arxiv.org/pdf/2006.04253.pdf

23 March – 19:46 – M1.0 **вспышка; пересвет на STEREO-B,** B=7*2/295=0,05 сомнительный

24 March

Simulating the Coronal Evolution of Bipolar Active Regions to Investigate the Formation of Flux Ropes
Stephanie L. **Yardley**, Duncan H. Mackay, Lucie M. Green
Solar Phys. **2020**
https://arxiv.org/pdf/2012.07708.pdf

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. II. THE CASE FOR ABSENT FILAMENTS
T. A. **Howard**1, C. E. DeForest1, U. G. Schneck2, and C. R. Alden
2017 ApJ 834 86 DOI 10.3847/1538-4357/834/1/86

http://c.brightcove.com/article/10.3847/1538-4357/834/1/86/pdf
http://iopscience.iop.org.sci-hub.cc/0004-637X/834/1/86/

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections
N. **Gopalswamy**, H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C. Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi, N. V. Nitta, M. J. Aschwanden, D. P. Choudhary
E-print, Jan **2013**; Adv. Space Res.

26 March

Solar Filaments and Interplanetary Magnetic Field Bz
V. **Aparna** and Petrus C. Martens
2020 ApJ 897 68
https://doi.org/10.3847/1538-4357/ab908b
https://sci-hub.tw/10.3847/1538-4357/ab908b

The initial morphologies of the wavefronts of extreme ultraviolet waves
Ruisheng **Zheng**, Zhike Xue, Yao Chen, Bing Wang, Hongqiang Song
ApJL **2018**
https://arxiv.org/pdf/1812.08371.pdf

March 27: A full halo CME was associated with a C5 event in region 11444 early in the day.

Dimensionality of Solar Magnetic Reconnection **Review**
Jeongwoo **Lee**
Reviews of Modern Plasma Physics **2022**
https://link.springer.com/epdf/10.1007/s41614-022-00096-y
https://doi.org/10.1007/s41614-022-00096-y

Formation of Isolated Radio Type II Bursts at Low Frequencies
Silja **Pohjolainen**, Nasrin Talebpour Sheshvan
Solar Phys. **2021**
https://arxiv.org/pdf/2104.09891.pdf

Evolution of the Toroidal Flux of CME Flux Ropes during Eruption
C. **Xing**, X. Cheng, M. D. Ding
The Innovation **2020**
https://arxiv.org/pdf/2011.10750.pdf

An Automated Algorithm for Identifying and Tracking Transverse Waves in Solar Images
Micah J. **Weberg**, Richard J. Morton, and James A. McLaughlin
2018 ApJ 852 57
http://sci-hub.tw/10.3847/1538-4357/aa9e4a

Trigger of successive filament eruptions observed by SDO and STEREO
Sajal Kumar **Dhara**, Ravindra B., Pankaj Kumar, Ravinder Kumar Banyal, Shibu K. Mathew, Bhuwan Joshi
Solar Physics **2017**
https://arxiv.org/pdf/1706.07385.pdf

SOLAR ERUPTION AND LOCAL MAGNETIC PARAMETERS
Jeongwoo **Lee**[1,2], Chang Liu[3], Ju Jing[3], and Jongchul Chae
2016 *ApJL* **831** L18 DOI 10.3847/2041-8205/831/2/L18
http://sci-hub.cc/doi/10.3847/2041-8205/831/2/L18

SOLAR MULTIPLE ERUPTIONS FROM A CONFINED MAGNETIC STRUCTURE
Jeongwoo **Lee**1, Chang Liu2, Ju Jing2, and Jongchul Chae
2016 ApJ 829 L1 **File**

A global view of velocity fluctuations in the corona below 1.3 R⊙with CoMP
R. J. **Morton**, S. Tomczyk, R. F. Pinto
ApJ **2016**
http://arxiv.org/pdf/1608.01831v1.pdf

Apparent Solar Tornado - Like Prominences
Olga **Panasenco**, Sara F. Martin, Marco Velli
E-print, July **2013**, Solar Phys. Volume 289, Issue 2, pp.603-622, **2014**
http://arxiv.org/pdf/1307.2303v1.pdf

Observations of Coronal Mass Ejections with the Coronal Multichannel Polarimeter
H. Tian, S. Tomczyk, S. W. McIntosh, C. Bethge, G. de Toma, S. Gibson
E-print, March **2013, File**; Sol. Phys. (**2013**) 288:637–650

April
Solar Wind Data Assimilation in an Operational Context: Use of Near-Real-Time Data and the Forecast Value of an L5 Monitor
Harriet **Turner**, Matthew Lang, Mathew Owens, Andy Smith, Pete Riley, Mike Marsh, Siegfried Gonzi
Space Weather Volume21, Issue5 e2023SW003457 **2023**
https://doi.org/10.1029/2023SW003457
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2023SW003457

April 2 – 02:20, A magnetic filament connected to sunspot AR1450 erupted hurling a faint CME in the direction of Earth.

3-6 Apr
NON-THERMAL RESPONSE OF THE CORONA TO THE MAGNETIC FLUX DISPERSAL IN THE PHOTOSPHERE OF A DECAYING ACTIVE REGION
L. K. Harra1 and V. I. Abramenko
2012 ApJ 759 104

4 Apr
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

April 5: A CME associated with the C1 LDE in AR 11450 late in the day may have had Earth directed extensions.

Filament Eruptions Associated with Flares, Coronal Mass Ejections and Solar Energetic Particle Events
K. **Koleva**1 , P. Duchlev1 , M. Dechev1 , R. Miteva2 , K. Kozarev1 , A. Veronig3 , M. Temmer3
Proceedings of Tenth Workshop "Solar Influences on the Magnetosphere, Ionosphere and Atmosphere" Primorsko, Bulgaria, June 4÷8, **2018**
http://ws-sozopol.stil.bas.bg/2018Primorsko/Kolevaetal_WS-10.pdf

The Relation Between Large-Scale Coronal Propagating Fronts and Type II Radio Bursts
Nariaki V. **Nitta**, Wei Liu, Nat Gopalswamy, Seiji Yashiro
Solar Phys., **2014**
http://www.lmsal.com/nitta/publ/SP_typeII_20140904.pdf
http://arxiv.org/pdf/1409.4754v1.pdf **File**

April 7: A filament eruption across AR 11451 was associated with a long duration B class event and a CME which may have been partially Earth directed.

Automated detection of coronaL MAss ejecta origiNs for space weather AppliCations (ALMANAC)
Thomas **Williams**, Huw Morgan
Space Weather **2022**
https://arxiv.org/pdf/2211.04405.pdf

SDO/AIA OBSERVATIONS OF LARGE-AMPLITUDE LONGITUDINAL OSCILLATIONS IN A SOLAR FILAMENT
Ting **Li** and Jun Zhang
2012 ApJ 760 L10

April 8
Automated Detection of Accelerating Solar Eruptions using Parabolic Hough Transform
Ritesh **Patel**, Vaibhav Pant, Priyanka Iyer, Dipankar Banerjee, Marilena Mierla, Matthew J. West
Solar Phys. **2020**
https://arxiv.org/pdf/2010.14786.pdf

April 9: a long duration C3.9 event peaking at 12:44 , A NW CME with an origin in AR 11451 just after noon appears to have been a full halo CME.

Bipolar Ephemeral Active Regions, Magnetic Flux Cancellation, and Solar Magnetic Explosions
Ronald L. **Moore**1,2, Navdeep K. Panesar3,4, Alphonse C. Sterling2, and Sanjiv K. Tiwari3,4
2022 ApJ 933 12
https://iopscience.iop.org/article/10.3847/1538-4357/ac6181/pdf

Evaluation of standoff distance method to determine the coronal magnetic field using CME-driven shocks
K. **Suresh**, A. Shanmugaraju, M. Syed Ibrahim
Astrophysics and Space Science November **2016**, 361:360
http://link.springer.com/article/10.1007/s10509-016-2944-4?wt_mc=alerts.TOCjournals

The Properties of Solar Energetic Particle Event-Associated Coronal Mass Ejections Reported in Different CME Catalogs
Ian G. **Richardson**, Tycho T. von Rosenvinge, Hilary V. Cane
Solar Phys. **2015 File**
http://arxiv.org/pdf/1505.03071v1.pdf

April 10-11
Possible Evidence for Alfvenic Turbulence in Coronal Loops
Ineke **De Moortel**
New UKSP Nugget: 48, June **2014**
http://www.uksolphys.org/uksp-nugget/48-possible-evidence-for-alfvenic-turbulence-in-coronal-loops/

Potential Evidence for the Onset of Alfvénic Turbulence in Trans-equatorial Coronal Loops
I. **De Moortel**1, S. W. McIntosh2, J. Threlfall1, C. Bethge3, and J. Liu
2014 ApJ 782 L34

April 12
Electric Currents through J-shaped and Non-J-shaped Flare Ribbons

Yuwei **He**, Rui Liu, Lijuan Liu, Jun Chen, Wensi Wang, Yuming Wang
ApJ **2020**
https://arxiv.org/pdf/2007.05693.pdf

April 13

Measuring magnetic field with Atacama Large Millimeter/Submillimeter Array **Review**
Maria **Loukitcheva**
Front. Astron. Space Sci. **7**:45 **2020**
https://www.frontiersin.org/articles/10.3389/fspas.2020.00045/full?utm_source=F-AAE&utm_medium=EMLF&utm_campaign=MRK_1406443_76_Astron_20200818_arts_A
https://doi.org/10.3389/fspas.2020.00045

Measurements of Coronal and Chromospheric Magnetic Fields using Polarization Observations by the Nobeyama Radioheliograph
K. **Iwai** and K. Shibasaki
Publ. Astron. Soc. Japan 65, No SP1, S14 [7 pages] (**2013**)
http://pasj.asj.or.jp/v65/sp1/65S014/65S014.pdf

14 Apr
CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. II. THE CASE FOR ABSENT FILAMENTS
T. A. **Howard**1, C. E. DeForest1, U. G. Schneck2, and C. R. Alden
2017 ApJ 834 86 DOI 10.3847/1538-4357/834/1/86
http://c.brightcove.com/article/10.3847/1538-4357/834/1/86/pdf
http://iopscience.iop.org.sci-hub.cc/0004-637X/834/1/86/

15 Apr
Evaluation of standoff distance method to determine the coronal magnetic field using CME-driven shocks
K. **Suresh**, A. Shanmugaraju, M. Syed Ibrahim
Astrophysics and Space Science November **2016**, 361:360
http://link.springer.com/article/10.1007/s10509-016-2944-4?wt_mc=alerts.TOCjournals

Statistical survey of widely spread out solar electron events observed with STEREO and ACE with special attention to anisotropies
N. **Dresing**, R. G?mez-Herrero, B. Heber, A. Klassen, O. Malandraki , W. Dr?ge , and Y. Kartavykh
E-print, July 2014; A&A, Volume 567, A27, July **2014; File**

Observations of coronal mass ejections (CMEs) at low frequency radio region on 15th April 2012.
Hamidi, Z. S., Abidin, Z. Z., Ibrahim, Z. A., Shariff, N. N. M., & Monstein, C.
AIP Conf. Proc. 1528, 55 (**2013**)
sci-hub.se/10.1063/1.4803568

15-19 April
Plasma flows and magnetic field interplay during the formation of a pore
I. **Ermolli**, A. Cristaldi, F. Giorgi, F. Giannattasio, M. Stangalini, P. Romano, A. Tritschler, F. Zuccarello
A&A **2017**
https://arxiv.org/pdf/1701.06440v1.pdf

16 Apr – 18:16: M1.7 **пересвет** B=21*2/299=0,14 ←16s 8s→ **18:01** B=15*2/299=0.1

April 16 – Magnetic fields on the sun's northeastern limb erupted around 17:45 UT on April 16th, producing one of the most visually-spectacular explosions in years. Квазиимпульсная M1.7 вспышка [N12E80], associated with a fast and wide partial halo CME. Похоже на эрупцию волокна, возможно, неполную.

The Lyman-alpha Emission in Solar Flares. I. a Statistical Study on Its Relationship with the 1--8 Å Soft X-ray Emission
Zhichen **Jing**, Wuqi Pan, Yukun Yang, Dechao Song, Jun Tian, Y. Li, X. Cheng, Jie Hong, M. D. Ding
ApJ **2020**
https://arxiv.org/pdf/2009.10358.pdf

Statistical survey of widely spread out solar electron events observed with STEREO and ACE with special attention to anisotropies
N. **Dresing**, R. G?mez-Herrero, B. Heber, A. Klassen, O. Malandraki , W. Dr?ge , and Y. Kartavykh
E-print, July 2014; A&A, Volume 567, A27, July **2014; File**

18 Apr залимбовый пересвет 02:16 ←16s 8s→ B=36/298=0.12 всё <0/2 не берём
02:26 B=22*2/298=0.15

17-22 Apr
Nature of helicity injection in non-erupting solar active regions
P. **Vemareddy**
MNRAS **2022**
https://arxiv.org/pdf/2208.03228

April 18: A small CME associated with a C8 event in region 11463 could have had an Earth directed component.

April 19: >14 UT, крупная эрупция SE волокна; крупный CME, STEREO-B,A

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation
Nishtha **Sachdeva**
Ph.D. Thesis **2019**
https://arxiv.org/pdf/1907.12673.pdf

Last news on zebra pattern
Gennady **Chernov**
Solar Phys. **2016**
http://arxiv.org/ftp/arxiv/papers/1512/1512.06311.pdf

Transit time of CME/shock associated with four major geo-effective CMEs in solar cycle 24
M. Syed **Ibrahim**, A. Shanmugaraju, M. Bendict Lawrance
Advances in Space Research, Volume 55, Issue 1, 1 January **2015**, Pages 407–415
http://www.sciencedirect.com/science/article/pii/S0273117714006139

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

Dynamics of flare processes and variety of the fine structure of solar radio emission over a wide frequency range of 30 - 7000 MHz
Gennady **Chernov** , Valery Fomichev, Baolin Tan, Yihua Yan, Chengming Tan, Qijun Fu
Solar Phys., **2014**
http://arxiv.org/pdf/1409.0660v1.pdf

Connecting speeds, directions and arrival times of 22 coronal mass ejections from the Sun to 1 AU
C. **Möstl**, K. Amla, J. R. Hall, P. C. Liewer, E. M. De Jong, R. C. Colaninno, A. M. Veronig, T. Rollett, M. Temmer, V. Peinhart, J. A. Davies, N. Lugaz, Y. D. Liu, C.J. Farrugia, J. G. Luhmann, B. Vršnak, R. A. Harrison, A. B. Galvin
ApJ, **2014**
http://arxiv.org/pdf/1404.3579v1.pdf

19-25 Apr

Magnetic helicity and energy of emerging solar active regions and their erruptivity
E. **Liokati** (1), A. Nindos (1), Y. Liu (2)
A&A **2022**
https://arxiv.org/pdf/2202.04353.pdf

April 20

Predicting the Time-of-Arrival of Coronal Mass Ejections at Earth From Heliospheric Imaging Observations
Carlos Roberto **Braga**, Angelos Vourlidas, Guillermo Stenborg, Alisson Dal Lago, Rafael Rodrigues Souza de Mendonça, Ezequiel Echer
JGR **2020**
https://arxiv.org/pdf/2008.09005.pdf

A New Space Weather Tool for Identifying Eruptive Active Regions
P. **Pagano**, D. H. Mackay, S. L. Yardley
ApJ **2019**
https://arxiv.org/pdf/1910.04226.pdf

The quasi-periodic behavior of recurrent jets caused by emerging magnetic flux
H. D. **Li** , Y. C. Jiang, J. Y. Yang, Y. Bi,
Astrophysics and Space Science October **2015**, 359:44

April 22

Partially Erupted Prominence Material as a Diagnostic of Coronal Mass Ejection Trajectory
B. A. **Hovis-Afflerbach**, B. J. Thompson, E. I. Mason
Space Weather Volume21, Issue8 August **2023** e2022SW003256
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2022SW003256

Identification of Low Coronal Sources of "Stealth" Coronal Mass Ejections Using New Image Processing Techniques
Nathalia **Alzate** and Huw Morgan
2017 ApJ 840 103
http://sci-hub.cc/10.3847/1538-4357/aa6caa

DETERMINING HEATING TIME SCALES IN SOLAR ACTIVE REGION CORES FROM AIA/*SDO* FE XVIII IMAGES
IGNACIO **UGARTE-URRA**1 AND HARRY P. WARREN2
eprint arXiv:1311.6346, ApJ, **2014**
http://arxiv.org/abs/1311.6346

April 23: Region S1598 (to the west of AR 11461) was the source of a C2 flare at 17:51 UTC. A CME was associated with this event. LASCO images indicate a full halo, however, NASA analysis of all available imagery indicates there were two sources for this apparent full halo CME. The CME associated with the C2 event was observed over most of the southern hemisphere limbs as a partial halo CME. It is uncertain if this CME will reach Earth.

http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Advances in Observing Various Coronal EUV Waves in the SDO Era and Their Seismological Applications (Invited Review)
Wei **Liu**, Leon Ofman
E-print, April **2014**; Solar Physics (Topical Issue, "Exploring the Network of SDO Science")
http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf

Diffraction, Refraction, and Reflection of An Extreme-Ultraviolet Wave Observed during Its Interactions with Remote Active Regions
Shen, Yuandeng; Liu, Yu; Su, Jiangtao; Li, Hui; Zhao, Ruijuan; Tian, Zhanjun; Ichimoto, Kiyoshi; Shibata, Kazunari
E-print, July **2013, File**; ApJL

April 23-24: INTENSIFYING GEOMAGNETIC STORM от эрупции 19-ого, Dst~-102 ?
On April 23. Solar wind speed at SOHO ranged between 324 and 413 km/s. A solar wind shock was observed at SOHO at 02:29 UTC, its source was likely one of the CMEs observed on April 19. Initially the disturbance appeared to be weak to moderate, however, after 17h UTC the interplanetary magnetic field has been consistently strongly southwards. This has caused a strong geomagnetic storm. During the 00-03h UTC interval on April 24 the planetary A index reached 156 (Kp 7 - severe storm).

CMEs during the Two Activity Peaks in Cycle 24 and their Space Weather Consequences
N. **Gopalswamy**, P. Mäkelä, S. Akiyama, S. Yashiro, N. Thakur
Sun and Geosphere, **2015**
http://arxiv.org/pdf/1509.04216v1.pdf **File**

Observations of a Quasi-periodic, Fast-Propagating Multiple Wavelengths and Its Interaction with Other Magnetic Structures
Y.-D. **Shen**, Y. Liu, J.-T. Su, H. Li, X.-F. Zhang, Z.-J. Tian, R.-J. Zhao, A. Elmhamdi
Solar Phys (**2013**) 288:585–602

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

24 Apr – 07:46: C3.7 вспышка, **пересвет** на STEREO-B, B=12*2/299=0,08
16:51: C2.6 вспышка, **пересвет** на STEREO-B, B=6*2/299=0,04

April 24

Coronal Quasi-periodic Fast-mode Propagating Wave Trains **Review**
Yuandeng **Shen**, Xinping Zhou, Yadan Duan, Zehao Tang, Chengrui Zhou, Song Tan
Solar Phys. **2022**
https://arxiv.org/pdf/2112.14959.pdf **File**

First Unambiguous Imaging of Large-Scale Quasi-Periodic Extreme-Ultraviolet Wave or Shock
Yuandeng **Shen**, P. F. Chen, Ying D. Liu, Kazunari Shibata, Zehao Tang, Yu Liu
ApJ **873** 22 **2019**
https://iopscience.iop.org/article/10.3847/1538-4357/ab01dd/pdf
https://arxiv.org/pdf/1901.08199.pdf
https://doi.org/10.3847/1538-4357/ab01dd

On the magnetism and dynamics of prominence legs hosting tornadoes
M. J. Martinez **Gonzalez**, A. Asensio Ramos, I. Arregui, M. Collados, C. Beck, J. de la Cruz Rodriguez
ApJ **2016**
http://arxiv.org/pdf/1605.01183v1.pdf

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections
N. **Gopalswamy**, H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C. Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi, N. V. Nitta, M. J. Aschwanden, D. P. Choudhary
E-print, Jan **2013**; Adv. Space Res.

25 Apr
Deep Neural Networks of Solar Flare Forecasting for Complex Active Regions
Ming **Li**, Yanmei Cui, Yanmei Cui, and Bingxian Luo
Front. Astron. Space Sci. 10: 1177550. **2023**
doi: 10.3389/fspas.2023.1177550
https://www.frontiersin.org/articles/10.3389/fspas.2023.1177550/pdf

April 26 - around 0600 UT, an active region on the farside of the sun broke the calm with a powerful eruption, a massive cloud of plasma flying over the southwestern limb:

Propagating Disturbances along fan-like coronal loops in an active region
S. **Mandal**, T. Samanta, D. Banerjee, S. Krishna Prasad, L. Teriaca
Research in Astronomy and Astrophysics (RAA) **2015**

27 Apr – 08:31: M1.0 вспышка, **пересвет** на STEREO-A, A=3*2/103=0.058

27-28 Apr
Spectroscopy of very hot plasma in non-flaring parts of a solar limb active region: spatial and temporal properties
Susanna **Parenti**, Giulio del Zanna, Antonino Petralia, Fabio Reale, Luca Teriaca, Paola Testa, Helen E. Mason
2017
https://arxiv.org/pdf/1707.08445.pdf

Apparent Solar Tornado-Like Prominences
Olga **Panasenco**, Sara F. Martin, Marco Velli
Solar Physics, February **2014**, Volume 289, Issue 2, pp 603-622

SDO/AIA DETECTION OF SOLAR PROMINENCE FORMATION WITHIN A CORONAL CAVITY
Thomas E. **Berger**1, Wei Liu2,3, and B. C. Low
2012 ApJ 758 L37

28 April, >08 – крупная эрупция длинного южного волокна, сначала западного, потом восточного.

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. II. THE CASE FOR ABSENT FILAMENTS
T. A. **Howard**1, C. E. DeForest1, U. G. Schneck2, and C. R. Alden
2017 ApJ 834 86 DOI 10.3847/1538-4357/834/1/86
http://c.brightcove.com/article/10.3847/1538-4357/834/1/86/pdf
http://iopscience.iop.org.sci-hub.cc/0004-637X/834/1/86/

Coronal Condensation in Funnel Prominences as Return Flows of the Chromosphere-Corona Mass Cycle
Liu, Wei; Berger, Thomas E.; and Low, B. C.
2014/01, Nature of Prominences and their role in Space Weather, Proceedings of the International Astronomical Union, IAU Symposium, Volume 300, pp. 441-442
http://sun.stanford.edu/~weiliu/research/publications/2013/2014IAUS_Liu_Berger_Low_funnel-prom.pdf

28 Apr ……
Magnetic Structure and Propagation of Two Interacting CMEs from the Sun to Saturn
Erika **Palmerio**, Teresa Nieves-Chinchilla, Emilia K. J. Kilpua, David Barnes, Andrei N. Zhukov, Lan K. Jian, Olivier Witasse, Gabrielle Provan, Chihiro Tao, Laurent Lamy, Thomas J. Bradley, M. Leila Mays, Christian Möstl, Elias Roussos, Yoshifumi Futaana, Adam Masters, Beatriz Sánchez-Cano
JGR **2021**
https://arxiv.org/pdf/2110.02190.pdf

28 Apr-25 May
Simulating Solar Maximum Conditions Using the Alfvén Wave Solar Atmosphere Model (AWSoM)
Nishtha **Sachdeva**1, Gábor Tóth1, Ward B. Manchester1, Bart van der Holst1, Zhenguang Huang1, Igor V. Sokolov1, Lulu Zhao1, Qusai Al Shidi1, Yuxi Chen1, Tamas I. Gombosi1Show full author list
2021 ApJ 923 176
https://iopscience.iop.org/article/10.3847/1538-4357/ac307c/pdf
https://doi.org/10.3847/1538-4357/ac307c

29Apr – 00:56: C1.7 вспышка, **пересвет** на STEREO-A, A=8*2/314=0,05

30 Apr – 09:26: C2.4 вспышка, **пересвет** на STEREO-B, B=4*2/314=0,026
10:26: C5.6 вспышка, **пересвет** на STEREO-B, B=10,5*2/314=0,067
10:41: C6.0 вспышка, **пересвет** на STEREO-B, B=9*2/314=0,057

30 April

Bipolar Ephemeral Active Regions, Magnetic Flux Cancellation, and Solar Magnetic Explosions
Ronald L. **Moore**1,2, Navdeep K. Panesar3,4, Alphonse C. Sterling2, and Sanjiv K. Tiwari3,4
2022 ApJ 933 12
https://iopscience.iop.org/article/10.3847/1538-4357/ac6181/pdf

Polarity relevance in flux rope deflections triggered by coronal holes
Abril **Sahade**, Mariana Cécere, Andrea Costa, Hebe Cremades
A&A **2021**
https://arxiv.org/pdf/2104.07127.pdf

Connecting 3D evolution of Coronal Mass Ejections to their Source Regions
Satabdwa **Majumdar**, Vaibhav Pant, Ritesh Patel, Dipankar Banerjee

ApJ **2020**
https://arxiv.org/pdf/2007.00923.pdf

Prominence and Filament Eruptions Observed by the Solar Dynamics Observatory: Statistical Properties, Kinematics, and Online Catalog
Patrick I. **McCauley**, Yingna Su, Nicole Schanche, Kaitlin E. Evans, Chuan Su, Sean McKillop, Katharine K. Reeves
Solar Phys. **2015**
http://arxiv.org/pdf/1505.02090v1.pdf

2012 filament
Pankaj **Kumar**, Kyung-Suk Cho
A&A, **2014**
http://arxiv.org/pdf/1409.7213v1.pdf

1-9 May
On the non-Kolmogorov nature of flare-productive solar active regions
Revati S. **Mandage**, R.T.James McAteer
ApJ **2016**
https://arxiv.org/pdf/1611.00830v1.pdf

3 May

Investigating width distribution of slow and fast CMEs in solar cycles 23 and 24
V. **Pant**, R. Majumdar, R. Patel, A. Chauhan, D. Banerjee, N. Gopalswamy
Frontiers in Astronomy and Space Sciences **2021**
https://arxiv.org/pdf/2104.12850.pdf
https://www.frontiersin.org/articles/10.3389/fspas.2021.634358/full
https://doi.org/10.3389/fspas.2021.634358

On the Observations of Rapid Forced Reconnection in the Solar Corona
A. K. **Srivastava**1, S. K. Mishra1, P. Jelínek2, Tanmoy Samanta3, Hui Tian3, Vaibhav Pant4, P. Kayshap2, Dipankar Banerjee5, J. G. Doyle6, and B. N. Dwivedi1
2019 ApJ 887 137
https://doi.org/10.3847/1538-4357/ab4a0c

On the rapid forced reconnection in the Sun's corona for its localized heating
A.K. **Srivastava**, P. Jelínek, Sudheer K. Mishra, Tanmoy Samanta, Hui Tian, Vaibhav Pant, P. Kayshap, D. Banerjee, J.G. Doyle, B.N. Dwivedi
2019
https://arxiv.org/pdf/1901.07971.pdf

4-5 May
Solar Irradiance Variability Due To Solar Flares Observed in Lyman-alpha Emission
Ryan O. **Milligan**
Solar Phys. **2021**
https://arxiv.org/pdf/2102.00974.pdf

5 May – 09:41: C6.8 вспышка, **пересвет** на STEREO-B, B=15,5*2/300=0,103
13:26: M1.4 вспышка, **пересвет** на STEREO-B, B=19*2/300=0,13
23:01: M1.3 вспышка, **пересвет** на STEREO-B, B=17*2/300=0,11

5 May

Rotation and Confined Eruption of a Double Flux-Rope System

Xiaomeng **Zhang**, Jinhan Guo, Yang Guo, Mingde Ding, Rony Keppens
ApJ **2023**
https://arxiv.org/pdf/2312.07406.pdf

Quantification of the Writhe Number of the Evolution of Solar Filament Axes
Zhenjun **Zhou** (周振军)1,2,3,4, Chaowei Jiang5, Hongqiang Song6, Yuming Wang3, Yongqiang Hao1, and Jun Cui1
2023 ApJ 944 175
https://iopscience.iop.org/article/10.3847/1538-4357/acb6f8/pdf

A study on Ca II 854.2 nm emission in a sunspot umbra using a thin cloud model
H. **Hamedivafa**, M. Sobotka, L. Bellot Rubio, S. Esteban Pozuelo
Iranian Journal of Astronomy and Astrophysics (IJAA) Vol. 3, No. 1, **2016**
https://arxiv.org/pdf/1612.06636v1.pdf

Magnetic Twists of Solar Filaments
Jinhan **Guo**, Yiwei Ni, Ye Qiu, Ze Zhong, Yang Guo, Pengfei Chen
ApJ **2021**
https://arxiv.org/pdf/2107.02580.pdf

НАЧАЛЬНЫЕ СКОРОСТИ КОРОНАЛЬНЫХ ВЫБРОСОВ МАСС И ОСОБЕННОСТИ СОПРОВОЖДАЕМЫХ ВСПЫШЕК
Дивлекеев М.И.
Пулково ***«Солнечная и солнечно-земная физика – 2015» с.115***

Diagnosis of Magnetic and Electric Fields of Chromospheric Jets through pectropolarimetric Observations of HI Paschen Lines
Tetsu **Anan**, Roberto Casini, Kiyoshi Ichimoto
E-print, Feb **2014**

6 May – 01:21: M1.1 вспышка, **пересвет** на STEREO-B, B=0,04
17:51: M1.3 вспышка, **пересвет** на STEREO-B, B=17*2/300=0,11

6 May
Three-Year Global Survey of Coronal Null Points from Potential-Field-Source-Surface (PFSS) Modeling and Solar Dynamics Observatory (SDO) Observations
Michael **Freed**, Dana Longcope, David McKenize
Solar Physics, **2014**
http://arxiv.org/pdf/1410.4493v1.pdf

7 May – 14:41: M1.9 вспышка, **пересвет** на STEREO-A, A=16*2/315=0,10
17:26: C7.4 вспышка, **пересвет** на STEREO-B, B=10,5*2/300=0,07

7 May - Sunspot AR1471 erupted, producing an **M1 flare (**14:31) and an Earth-directed CME. The most interesting CME of the day was observed after a **filament erupted** in the southeast quadrant beginning near 21:15 UTC.

Excitation of Quasiperiodic Fast-propagating Waves in the Early Stage of the Solar Eruption
Jialiang **Hu**1,2,3, Jing Ye1,3,4, Yuhao Chen1,2,3, Zhixing Mei1,3, Zehao Tang1,2,3, and Jun Lin
2024 ApJ 962 42
https://iopscience.iop.org/article/10.3847/1538-4357/ad1993/pdf

Automatic detection of solar flares observed at 45 GHz by the POEMAS telescope
Vanessa **Lessa**, Adriana Valio
Astronomy and Computing, **2023**, Volume 44, 100738
https://arxiv.org/pdf/2309.06536.pdf

Observations of Twist, Current Helicity, and Writhe in the Magnetic Knots of δ-sunspots Consistent with the Kink Instability of a Highly Twisted Flux Rope
Peter J. **Levens**1, Aimee A. Norton1, Mark G. Linton2, Kalman J. Knizhnik2, and Yang Liu1
2023 ApJL 954 L20
https://iopscience.iop.org/article/10.3847/2041-8213/acf0c6/pdf

Compressive oscillations in hot coronal loops: Are sloshing oscillations and standing slow waves independent?
S. Krishna **Prasad**, T. Van Doorsselaere
ApJ **2021**
https://arxiv.org/pdf/2104.12038.pdf

Testing the background solar wind modelled by EUHFORIA
J. **Hinterreiter** (1,2), J. Magdalenic (3), M. Temmer (2), C. Verbeke (4), I.C. Jeberaj (3,4), E. Samara (3,4), E. Asvestari (2,5), S. Poedts (4), J. Pomoell (5), E. Kilpua (5), L. Rodriguez (3), C. Scolini (3,4), A. Isavnin (4
Solar Phys. **2019**
https://arxiv.org/pdf/1907.07461.pdf

Properties of slow magnetoacoustic oscillations of solar coronal loops by multi-instrumental observations
Nakariakov, V. M., Kosak, M. K., Kolotkov, D. Y., Anfinogentov, S. A., Kumar, P., Moon, Y.-J.
ApJL **2019**

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures
Edward M.B. **Thiemann**, Francis G. Eparvier and Thomas N. Woods
J. Space Weather Space Clim. **2017**, 7, A36
https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170050.pdf
https://arxiv.org/pdf/1703.02995.pdf

Quasi-Periodic Radio Bursts Associated with Fast-mode Waves near a Magnetic Null Point
Pankaj **Kumar**, Valery M. Nakariakov, Kyung-Suk Cho
ApJ **2017**
https://arxiv.org/pdf/1706.09988.pdf

Solar Radio Bursts with Spectral Fine Structures in Preflares
Yin **Zhang**, Baolin Tan, Marian Karlický, Hana Mészárosová, Jing Huang, Chengming Tan, Paulo Simões
2014
http://arxiv.org/pdf/1411.4766v1.pdf

Three-Year Global Survey of Coronal Null Points from Potential-Field-Source-Surface (PFSS) Modeling and Solar Dynamics Observatory (SDO) Observations
Michael **Freed**, Dana Longcope, David McKenize
Solar Physics, **2014**
http://arxiv.org/pdf/1410.4493v1.pdf

SDO/AIA Observations of a Reflecting Longitudinal Wave in a Coronal Loop
Pankaj **Kumar**, D.E. Innes, B. Inhester
2014

http://arxiv.org/pdf/1409.3896v1.pdf

8 May – 13:11: M1.4 вспышка, **пересвет** на STEREO-B, B=22*2/301=0,15

May 8: A **filament eruption** beginning at 09:45 UTC near AR 11474 across the central meridian was the source of a small CME observed in both STEREO-A and B imagery after 11h UT

Statistical analysis of circular-ribbon flares
Yanjie Zhang, Qingmin Zhang, Dechao Song, Shuting Li, Jun Dai, Zhe Xu, Haisheng Ji
Astrophysical Journal Supplement Series **2022**
https://arxiv.org/pdf/2203.12819.pdf

The Relation between Solar Eruption Topologies and Observed Flare Features I: Flare Ribbons
A. **Savcheva**, E. Pariat, S. McKillop, P. McCauley, E. Hanson, Y. Su, E. Werner, E. E. DeLuca
2015
http://arxiv.org/pdf/1506.03452v1.pdf

Particle Acceleration in Plasmoid Ejections Derived from Radio Drifting Pulsating Structures
N. **Nishizuka**1, M. Karlický2, M. Janvier3, and M. Bárta
2015 ApJ 799 126
http://arxiv.org/pdf/1412.7904v1.pdf

ANTI-PHASE SIGNATURE OF FLARE GENERATED TRANSVERSE LOOP OSCILLATIONS
R. S. **White**, E. Verwichte, and C. Foullon
2013 ApJ 774 104

8 – 10 May - **Импульсные** вспышки из AR 1476

Two successive partial mini-filament confined ejections
M. **Poisson**, C. Bustos, M. López Fuentes, C. H. Mandrini, G.D. Cristiani
2019
https://arxiv.org/pdf/1911.00901.pdf

Physical processes involved in the EUV "Surge" Event of 09 May 2012
Marcelo López **Fuentes**, Cristina H. Mandrini, Mariano Poisson, Pascal Démoulin, Germán Cristiani, Fernando M. López, Maria Luisa Luoni
Solar Phys. **2018**
https://arxiv.org/pdf/1810.12403.pdf

May 8-12 –….. **HMI фильм развития крупной области 1638**
http://hmi.stanford.edu/hminuggets/?p=381

9 May – 12:36: M4.7 вспышка, **пересвет** на STEREO-B, B=17*2/300=0,11

May 9, ~21 UT, выброс в **поглощении на 304 А** после импульсной вспышки

On orbit performance of the solar flare trigger for the Hinode EUV Imaging Spectrometer
David H. **Brooks**, Jeffrey W. Reep, Ignacio Ugarte-Urra, Harry P. Warren
Brief Report in Frontiers in Astronomy and Space Sciences **2023**
https://arxiv.org/pdf/2303.13155.pdf

Physical processes involved in the EUV "Surge" Event of 09 May 2012
Marcelo López **Fuentes**, Cristina H. Mandrini, Mariano Poisson, Pascal Démoulin, Germán Cristiani, Fernando M. López, Maria Luisa Luoni
Solar Phys. **2018**
https://arxiv.org/pdf/1810.12403.pdf

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures
Edward M.B. **Thiemann**, Francis G. Eparvier and Thomas N. Woods
J. Space Weather Space Clim. **2017**, 7, A36
https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170050.pdf
https://arxiv.org/pdf/1703.02995.pdf

Spectral Trends of Solar Bursts at Sub-THz Frequencies
L. O. T. **Fernandes,** P. Kaufmann, E. Correia, C. G. Giménez de Castro, A. S. Kudaka, A. Marun, P. Pereyra, J.-P. Raulin, A. B. M. Valio
Solar Physics January **2017**, 292:21
http://sci-hub.cc/10.1007/s11207-016-1043-6

Prediction of Solar Flares Using Unique Signatures of Magnetic Field Images
Abbas **Raboonik**, Hossein Safari, Nasibe Alipour, Michael S. Wheatland
ApJ **2016**
https://arxiv.org/abs/1610.03222

9-14 May
A New Space Weather Tool for Identifying Eruptive Active Regions
P. **Pagano**, D. H. Mackay, S. L. Yardley
ApJ **2019**
https://arxiv.org/pdf/1910.04226.pdf

10 May Filament eruption

Circular-ribbon flares and the related activities **Review**
Qingmin **Zhang**
Reviews of Modern Plasma Physics **2024**
https://arxiv.org/pdf/2401.16101.pdf

The Rotation of Magnetic Flux Rope Formed during Solar Eruption
Zhenjun **Zhou**, Chaowei Jiang, Rui Liu, Yuming Wang, Lijuan Liu, Jun Cui
ApJ **2022**
https://arxiv.org/pdf/2202.09073.pdf

Magnetic Twists of Solar Filaments
Jinhan **Guo**, Yiwei Ni, Ye Qiu, Ze Zhong, Yang Guo, Pengfei Chen
ApJ **2021**
https://arxiv.org/pdf/2107.02580.pdf

Energy Partition in Four Confined Circular-Ribbon Flares
Z. M. **Cai**, Q. M. Zhang, Z. J. Ning, Y. N. Su, H. S. Ji
Solar Phys. **2021**
https://arxiv.org/pdf/2102.09819.pdf

Two successive partial mini-filament confined ejections
M. **Poisson**, C. Bustos, M. López Fuentes, C. H. Mandrini, G.D. Cristiani
2019
https://arxiv.org/pdf/1911.00901.pdf

A Study of Pre-Flare Solar Coronal Magnetic Fields: Magnetic Flux Ropes
Aiying **Duan**, Chaowei Jiang, Wen He, Xueshang Feng, Peng Zou, Jun Cui
ApJ **2019**
https://arxiv.org/pdf/1908.08643.pdf

Investigation of white-light emission in circular-ribbon flares
Yongliang **Song**, Hui Tian
ApJ **2018**
https://arxiv.org/pdf/1810.02958.pdf

Mini-filament Eruptions Triggering Confined Solar Flares Observed by ONSET and SDO
Shuhong **Yang**, Jun Zhang
ApJL **2018**
https://arxiv.org/pdf/1806.01763.pdf

Observations of a white-light flare associated with a filament eruption
Y. L. **Song**, Y. Guo, H. Tian, X. S. Zhu, M. Zhang, Y. J. Zhu
ApJ **2018**
https://arxiv.org/pdf/1801.04408.pdf

Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions
Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
ApJ **2016**
https://arxiv.org/pdf/1611.05047v1.pdf

The Energetics of White-light Flares Observed by SDO/HMI and RHESSI
Nengyi **Huang**, Yan Xu, Haimin Wang
Research in Astronomy and Astrophysics **2016**
http://arxiv.org/pdf/1608.06015v1.pdf

НАБЛЮДАТЕЛЬНЫЕ СВИДЕТЕЛЬСТВА СВЯЗИ ВСПЛЫТИЯ МАГНИТНЫХ ПОЛЕЙ, ТОКОВ И СОЛНЕЧНЫХ ВСПЫШЕК 10 МАЯ 2012 Г.
М. А. **Лившиц**,1, * И. Ю. Григорьева,2, ** И. И. Мышьяков,3, *** Г. В. Руденко
АЖ **2016** **File**

Evidence of the Relationship between the Emerging Magnetic Fields, Electric Currents, and Solar Flares Observed on May 10, 2012
M.A. **Livshits**, I.Yu. Grigoryeva, I.I. Myshyakov, G.V. Rudenko
Astronomy Reports **2016** **File**
http://arxiv.org/pdf/1604.07073v1.pdf

МНОГОВОЛНОВЫЕ НАБЛЮДЕНИЯ ВСПЫШКИ 10 МАЯ 2012: УСКОРЕНИЕ ЧАСТИЦ И ВСПЛЫТИЕ МАГНИТНОГО ПОЛЯ
Григорьева И.Ю.1, Кузнецов А.А.2, Мешалкина Н.С.2, Мышьяков И.И.2
Пулково *«Солнечная и солнечно-земная физика – **2015**», с.99*

11 May

CME Magnetic Structure and IMF Preconditioning Affecting SEP Transport
Erika **Palmerio** , Emilia K. J. Kilpua , Olivier Witasse ,David Barnes , Beatriz Sánchez-Cano, Andreas J. Weiss , Teresa Nieves-Chinchilla , Christian Möstl , Lan K. Jian , … See all authors
Space Weather Volume19, Issue4 , April **2021**, e2020SW002654

https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002654
https://doi.org/10.1029/2020SW002654

Statistics of coronal dimmings associated with coronal mass ejections.
I. Characteristic dimming properties and flare association
Karin **Dissauer**, Astrid M. Veronig, Manuela Temmer, Tatiana Podladchikova, Kamalam Vanninathan
ApJ **2018**
https://arxiv.org/pdf/1807.05056.pdf

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures
Edward M.B. **Thiemann**, Francis G. Eparvier and Thomas N. Woods
J. Space Weather Space Clim. **2017**, 7, A36
https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170050.pdf
https://arxiv.org/pdf/1703.02995.pdf

May 11-12: A **filament eruption** began after 18h UTC on May 11 and involved a large area **around the center** of the disk, including the southern part of AR 11476, AR 11480 and extending towards the east. A CME was observed in STEREO-B at 23:54 UTC and in STEREO-A a couple of hours later when images resumed. LASCO displays a slow and small halo CME.

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures
Edward M.B. **Thiemann**, Francis G. Eparvier, Thomas N. Woods
Journal of Space Weather and Space Climate **2017**
https://arxiv.org/pdf/1703.02995.pdf

11-17 May

CME Magnetic Structure and IMF Preconditioning Affecting SEP Transport
Erika **Palmerio** , Emilia K. J. Kilpua , Olivier Witasse ,David Barnes , Beatriz Sánchez-Cano, Andreas J. Weiss , Teresa Nieves-Chinchilla , Christian Möstl , Lan K. Jian , … See all authors
Space Weather Volume19, Issue4 , April **2021**, e2020SW002654
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002654
https://doi.org/10.1029/2020SW002654

12 May GLE71

What Causes Faint Solar Coronal Jets from Emerging Flux Regions in Coronal Holes?
Abigail R. **Harden**, Navdeep K. Panesar, Ronald L. Moore, Alphonse C. Sterling, Mitzi L. Adams
ApJ **2021**
https://arxiv.org/pdf/2103.07813.pdf

Random Walk and Trapping of Interplanetary Magnetic Field Lines: Global Simulation, Magnetic Connectivity, and Implications for Solar Energetic Particles
Rohit **Chhiber**, David Ruffolo, William H. Matthaeus, Arcadi V. Usmanov, Paisan Tooprakai, Piyanate Chuychai, Melvyn L. Goldstein
ApJ **2020**
https://arxiv.org/pdf/2011.06620.pdf

On the Relation between Flare and CME during GLE-SEP and Non-GLE-SEP Events
K. A. **Firoz**1,2, W. Q. Gan2, Y.-J. Moon1, J. Rodríguez-Pacheco3, and Y. P. Li2
2019 ApJ 883 91
https://doi.org/10.3847/1538-4357/ab3c4e
https://sci-hub.ru/10.3847/1538-4357/ab3c4e

https://iopscience.iop.org/article/10.3847/1538-4357/ab3c4e/pdf

The Relation between Solar Eruption Topologies and Observed Flare Features II: Dynamical Evolution
A. **Savcheva**, E. Pariat, S. McKillop, P. McCauley, E. Hanson, Y. Su, & E. DeLuca
2015
http://www.pergamentum.com/eprint/savcheva_etal_ribbonsA_II.pdf

13 May

A propagation tool to connect remote-sensing observations with in-situ measurements of heliospheric structures
A.P. **Rouillard**, B. Lavraud, V. Genot, M. Bouchemit, N. Dufourg, I. Plotnikov, R.F. Pinto, E. Sanchez-Diaz, M. Lavarra, M. Penou, C. Jacquey, N. Andre, S. Caussarieu, J.-P. Toniutti, D. Popescu, E. Buchlin, S. Caminade, P. Alingery, J.A. Davies, D. Odstrcil, L. Mays
Planetary and Space Science **2017**
https://arxiv.org/pdf/1702.00399v1.pdf

14 May

Hot X-ray Onsets of Solar Flares
Hugh S. **Hudson**, Paulo J. A. Simoes, Lyndsay Fletcher, Laura A. Hayes, Iain G. Hannah
MNRAS **2020**
https://arxiv.org/pdf/2007.05310.pdf

Homologous large-amplitude Nonlinear fast-mode Magnetosonic Waves Driven by Recurrent Coronal Jets
Yuandeng **Shen**, Yu Liu, Ying D. Liu, Jiangtao Su, Zehao Tang, Yuhu Miao
The Astrophysical Journal, 861:105 (13pp), **2018** July 10
http://iopscience.iop.org/article/10.3847/1538-4357/aac9be/pdf
https://arxiv.org/pdf/1805.12303.pdf

16 May

Fitting and Reconstruction of Thirteen Simple Coronal Mass Ejections
Nada **Al-Haddad**, Teresa Nieves-Chinchilla, Neel P. Savani, Noe Lugaz, Ilia I. Roussev
Solar Phys. **2018**
https://arxiv.org/pdf/1804.02359.pdf

Coronal cavities: observations and implications for the magnetic environment of prominences
Sarah E. **Gibson**
Solar Prominences, Astrophysics and Space Science Library, Volume 415. ISBN 978-3-319-10415-7. Springer International Publishing Switzerland, **2015**, p. 323
https://arxiv.org/pdf/1702.02214.pdf

Peculiarity of the oscillation stratification in sunspot penumbrae
D.Y. **Kolobov**, A.A. Chelpanov, N.I. Kobanov
2016
http://arxiv.org/pdf/1607.06175v1.pdf

Oscillations Above Sunspots and Faculae: Height Stratification and Relation to Coronal Fan Structure
N.I. **Kobanov**, D.Y. Kolobov, A.A. Chelpanov
2014

http://arxiv.org/pdf/1411.6258v1.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

17 May – 02:16: M5.1 **пересвет** A=41*2/314=0,26 ←16s 8s→ **01:41** 28*2/314=0.178 многоэлементная

May 17, 01:30 - Energetic solar **protons** are swirling around Earth following an M5-class solar flare from departing sunspot 1476. **GLE71 с очень жестким спектром при довольно умеренных микроволнах. Prolonged gamma**

Гречнев

Solar Wind with Field Lines and Energetic Particles (SOFIE) Model: Application to Historical Solar Energetic Particle Events
Lulu **Zhao**, Igor Sokolov, Tamas Gombosi, David Lario, Kathryn Whitman, Zhenguang Huang, Gabor Toth, Ward Manchester, Bart van der Holst, Nishtha Sachdeva
Space Weather **2023**
https://arxiv.org/pdf/2309.16903.pdf

Effects of Coronal Magnetic Field Configuration on Particle Acceleration and Release during the Ground Level Enhancement Events in Solar Cycle 24
Wenlong **Liu**, Xiangliang Kong, Fan Guo, Lulu Zhao, Shiwei Feng, Feiyu Yu, Zelong Jiang, Yao Chen, Joe Giacalone
ApJ **2023**
https://arxiv.org/pdf/2307.12191.pdf

Шаховская А.Н., Григорьева И.Ю. **Исследование событий, предшествующих вспышкам, связанным протонными событиями, 20.01.2005, 13.12.2006, 17.05.2012 и 10.09.2017**, в мягком рентгене и радиоизлучении …
Сборник трудов XXVI Всероссийской ежегодной конференции по физике Солнца «Солнце и солнечно-земная физика – 2022» ГАО РАН.
http://www.gaoran.ru/russian/solphys/2022/book/conf2022.pdf

Григорьева И.Ю., Струминский А.Б., Шаховская А.Н. **О наблюдательных свидетельствах перестройки магнитной конфигурации активных областей в тепловом/нетепловом излучении, связанном с солнечными вспышками X7.1 20.01.05, M5.1 17.05.12**
Сборник трудов XXVI Всероссийской ежегодной конференции по физике Солнца «Солнце и солнечно-земная физика – 2022» ГАО РАН.
http://www.gaoran.ru/russian/solphys/2022/book/conf2022.pdf

ФОРМИРОВАНИЕ ИСТОЧНИКА СОЛНЕЧНЫХ КОСМИЧЕСКИХ ЛУЧЕЙ В ЭРУПТИВНЫХ ВСПЫШКАХ X6.9 9 АВГУСТА 2011 ГОДА И M5.1 17 МАЯ 2012 ГОДА
Григорьева И.Ю., Струминский А.Б.
АЖ Том: 99Номер: 6 Год: **2022** Страницы: 486-495

Modelling the transport of relativistic solar protons along a heliospheric current sheet during historic GLE events
Charlotte O. G. **Waterfall**, Silvia Dalla, Timo Laitinen, Adam Hutchinson, Mike Marsh

ApJ **2022**
https://arxiv.org/pdf/2206.11650.pdf **File**

Calibration of the GOES 6–16 high-energy proton detectors based on modelling of ground level enhancement energy spectra
Shaowen **Hu**1* and Edward Semones2
J. Space Weather Space Clim. **2022**, **12**, 5
https://www.swsc-journal.org/articles/swsc/pdf/2022/01/swsc210063.pdf
https://doi.org/10.1051/swsc/2022003

Variations of Peak He/H Ratios in Solar Energetic (E > 4 MeV) Particle Events and Comparisons with Solar Wind He/H Ratios
S. W. **Kahler**1 and D. Brown2
2021 ApJ 908 214
https://iopscience.iop.org/article/10.3847/1538-4357/abd481/pdf
https://doi.org/10.3847/1538-4357/abd481

Modeling the 2012 May 17 Solar Energetic Particle Event Using the AWSoM and iPATH Models
Gang **Li**1, Meng Jin2, Zheyi Ding1,3, A. Bruno4,5, G. A. de Nolfo4, B. M. Randol4, L. Mays6, J. Ryan7, and D. Lario4
2021 ApJ 919 146
https://doi.org/10.3847/1538-4357/ac0db9

Quasi-Periodic Pulsations Detected in Lyα and Nonthermal Emissions During Solar Flares
Lei **Lu**, Dong Li, Zongjun Ning, Li Feng, Weiqun Gan
Solar Phys. **2021**
https://arxiv.org/pdf/2108.03820.pdf

The Common Origin of High-energy Protons in Solar Energetic Particle Events and Sustained Gamma-ray Emission from the Sun
N. **Gopalswamy**, S. Yashiro, P. Makela, H. Xie, S. Akiyama
ApJ **2021**
https://arxiv.org/ftp/arxiv/papers/2105/2105.01206.pdf

Space weather: the solar perspective -- an update to Schwenn (2006) **Review**
Manuela **Temmer**
Living Reviews in Solar Physics **2021**
https://arxiv.org/pdf/2104.04261.pdf

CME Magnetic Structure and IMF Preconditioning Affecting SEP Transport
Erika **Palmerio** , Emilia K. J. Kilpua , Olivier Witasse ,David Barnes , Beatriz Sánchez-Cano, Andreas J. Weiss , Teresa Nieves-Chinchilla , Christian Möstl , Lan K. Jian , … See all authors
Space Weather Volume19, Issue4 , April **2021**, e2020SW002654
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002654
https://doi.org/10.1029/2020SW002654

A Primer on Focused Solar Energetic Particle Transport **Review**
Basic Physics and Recent Modelling Results
Jabus van den **Berg**, Du Toit Strauss & Frederic Effenberger
Space Science Reviews volume 216, Article number: 146 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11214-020-00771-x.pdf

Application of the verified neutron monitor yield function for an extended analysis of the ground level enhancement GLE # 71 on May 17, 2012
A. L. **Mishev** , S. A. Koldobskiy , I. G. Usoskin , L. G. Kocharov , G. A. Kovaltsov

Space Weather e2020SW002626 **2020**
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002626

Short-Term Lightning Response to Ground Level Enhancements
Qiong **Wu**1,2, Hui Li1,3* and Chi Wang1,4
Frontier Phys., 8:348 **2020** |
https://doi.org/10.3389/fphy.2020.00348
https://www.frontiersin.org/articles/10.3389/fphy.2020.00348/full?utm_source=F-AAE&utm_medium=EMLF&utm_campaign=MRK_1427535_64_Physic_20200908_arts_A
https://sci-hub.st/10.3389/fphy.2020.00348

Small Size Ground Level Enhancements During Solar Cycle 24
Leonty I. **Miroshnichenko**, Chuan Li & Victor G. Yanke
Solar Physics volume 295, Article number: 102 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01659-3.pdf

Statistical characteristics on SEPs, radio-loud CMEs, low frequency type II and type III radio bursts associated with impulsive and gradual flares
P. Pappa **Kalaivani**, A. Shanmugaraju, O. Prakash, R.-S. Kim
Earth Moon and Planets, [104, 295 ?] (**2020**)
https://arxiv.org/pdf/2007.05726.pdf
https://sci-hub.tw/https://link.springer.com/article/10.1007/s11038-020-09533-9

Solar and Heliospheric Physics **Review**
Silvia **Dalla**
36th ICRC **2019**, id. 027
https://pos.sissa.it/358/027/pdf

Particle Acceleration at the Pileup Collision of the Twin Shock
Xin **Wang**1,2,3,4,5, Joe Giacalone2, Yihua Yan3, Mingde Ding4, Chuan Li4, Hong Lu6, and Hao Shan1,5
2019 ApJ 885 66
https://doi.org/10.3847/1538-4357/ab4655

Особенности развития длительных потоков высокоэнергичного гамма-излучения на разных стадиях солнечных вспышек.
Минасянц Г.С., Минасянц Т.М., Томозов В.М.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 5. **2019**. № 3. С. 11–20
https://naukaru.ru/ru/storage/view/39748

Spatial Distributions of Sunspot Oscillation Modes at Different Temperatures
Zhengkai Wang, Song Feng, Linhua Deng, Yao Meng
Research in Astronomy and Astrophysics **2019**
https://arxiv.org/pdf/1908.04906.pdf

On the Shock Source of Sustained Gamma-Ray Emission from the Sun
N **Gopalswamy**, P. Makela, S. Yashiro, A. Lara, S. Akiyama, H. Xie
18th International Astrophysics Conference, Pasadena, CA, February 18 to 22, 2019 **2019**
https://arxiv.org/ftp/arxiv/papers/1907/1907.13318.pdf **File**

The Acceleration of Energetic Particles at Coronal Shocks and Emergence of a Double Power Law Feature in Particle Energy Spectra
Xiangliang **Kong**, Fan Guo, Yao Chen, Joe Giacalone
2019
https://arxiv.org/pdf/1907.13321.pdf

New Method of Assessment of the Integral Fluence of Solar Energetic (> 1 GV Rigidity) Particles from Neutron Monitor Data
Sergey A. **Koldobskiy**, Gennady A. Kovaltsov, Alexander L. Mishev, lya G. Usoskin
Solar Physics July **2019**, 294:94
sci-hub.se/10.1007/s11207-019-1485-8

Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles
G. A. **de Nolfo**, A. Bruno, J. M. Ryan, S. Dalla, J. Giacalone, I. G. Richardson, E. R. Christian, S. J. Stochaj, G. A. Bazilevskaya, M. Boezio, M. Martucci, V. V. Mikhailov, R. Munini
ApJ **2019**
https://arxiv.org/pdf/1905.12878.pdf **File**

СОЛНЕЧНЫЕ ПРОТОННЫЕ СОБЫТИЯ 6 И 10 СЕНТЯБРЯ 2017 Г.: МОМЕНТ ПЕРВОГО ПРИХОДА ПРОТОНОВ И ЭЛЕКТРОНОВ
Струминский А.Б.
Известия РАН Том: 83Номер: 5 Год: **2019** Страницы: 597-601

Nowcast and forecast of galactic cosmic ray (GCR) and solar energetic particle (SEP) fluxes in magnetosphere and ionosphere – Extension of WASAVIES to Earth orbit
Tatsuhiko **Sato**, Ryuho Kataoka, Daikou Shiota, Yûki Kubo, Mamoru Ishii, Hiroshi Yasuda, Shoko Miyake, Yoshizumi Miyoshi, Haruka Ueno and Aiko Nagamatsu
J. Space Weather Space Clim. **2019**, 9, A9
https://www.swsc-journal.org/articles/swsc/pdf/2019/01/swsc180058.pdf

Spectral Analysis of the September 2017 Solar Energetic Particle Events
A. **Bruno**, E. R. Christian, G. A. de Nolfo, I. G. Richardson, J. M. Ryan
Space Weather **2019**
https://arxiv.org/pdf/1902.03969.pdf
sci-hub.tw/10.1029/2018SW002085

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE Thesis Catalog (2010-2017)
Allafort, A. J.
(**2018**). PhD thesis, Stanford Univ. **File**
https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

Fermi, Wind, and SOHO Observations of Sustained Gamma-Ray Emission from the Sun
N. **Gopalswamy**, P. Makela, S. Yashiro, A. Lara, H. Xie, S. Akiyama, R. J. MacDowall
Submitted to 2019 URSI Asia Pacific Radio Science Conference **2018**
https://arxiv.org/ftp/arxiv/papers/1810/1810.08958.pdf

The Ground Level Enhancement Event of September 2017 and Other Large Solar Energetic Particle Events of Cycle 24
C. M. S. **Cohen**, R. A. Mewaldt
Space Weather **2018**
sci-hub.tw/10.1029/2018SW002006

Quantifying Turbulent Dynamics Found within the Plasma Sheets of Multiple Solar Flares
Michael S. **Freed**1,2 and David E. McKenzie1,3
2018 ApJ 866 29
http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/1538-4357/aadee4/meta

Real Time and Automatic Analysis Program for WASAVIES: Warning System for Aviation Exposure to Solar Energetic Particles

Tatsuhiko **Sato**, Ryuho Kataoka, Daikou Shiota, Yûki Kubo , Mamoru Ishii, Hiroshi Yasuda, Shoko Miyake , In Chun Park , Yoshizumi Miyoshi
Space Weather Volume16, Issue7 July **2018** Pages 924-936
http://sci-hub.tw/10.1029/2018SW001873

Spatial Organization of Seven Extreme Solar Energetic Particle Events
Leon **Kocharov**1, Silja Pohjolainen2, Mike J. Reiner3,4, Alexander Mishev5, Haimin Wang6,7, Ilya Usoskin1,5, and Rami Vainio8
2018 ApJL 862 L20 **File**
http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/2041-8213/aad18d/meta

Modelling of proton acceleration in application to a ground level enhancement
A. **Afanasiev**, R. Vainio, A. P. Rouillard, M. Battarbee, A. Aran, P. Zucca
A&A **2018**
https://arxiv.org/pdf/1806.05497.pdf

Modelling of Shock-Accelerated Gamma-Ray Events Review
Alexandr **Afanasiev,** Angels Aran, Rami Vainio, Alexis Rouillard, Pietro Zucca, David Lario, Suvi Barcewicz, Robert Siipola, Jens Pomoell, Blai Sanahuja, and Olga E. Malandraki
In: O.E. Malandraki, N.B. Crosby (eds.), Solar Particle Radiation Storms Forecasting and Analysis Chapter 9, **2018**
https://link.springer.com/content/pdf/10.1007%2F978-3-319-60051-2.pdf
File Malandraki_Crosby_SEPs_Forecasting and Analysis_Book.pdf

X-Ray, Radio and SEP Observations of Relativistic Gamma-Ray Events Review
Karl-Ludwig **Klein,** Kostas Tziotziou, Pietro Zucca, Eino Valtonen, Nicole Vilmer, Olga E. Malandraki, Clarisse Hamadache, Bernd Heber, and Jürgen Kiener
In: O.E. Malandraki, N.B. Crosby (eds.), Solar Particle Radiation Storms Forecasting and Analysis Chapter 8, **2018**
https://link.springer.com/content/pdf/10.1007%2F978-3-319-60051-2.pdf
File Malandraki_Crosby_SEPs_Forecasting and Analysis_Book.pdf

Source Energy Spectrum of the 17-05-2012 GLE
Jorge **Pérez-Peraza**, Juan C. Márquez-Adame, L. I. Mirosnichenko and Victor Velasco-Herrera
JGR **2018**

Searching for Extreme SEP Events with STEREO,
Cohen, C. M. S., J. G. Luhmann, R. A. Mewaldt, M. L. Mays, H. M. Bain, Y. Li, and C. O. Lee (**2017**), Proceedings of 35th ICRC Conference, PoS(ICRC2017), id.134, 1–8.
https://pos.sissa.it/301/134/pdf

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures
Edward M.B. **Thiemann**, Francis G. Eparvier and Thomas N. Woods
J. Space Weather Space Clim. **2017**, 7, A36
https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170050.pdf
https://arxiv.org/pdf/1703.02995.pdf

Characteristics of Sustained >100 γ-ray Emission Associated with Solar Flares
G. H. **Share**, R. J. Murphy, A. K. Tolbert, B. R. Dennis, S. M. White, R. A. Schwartz, and A. J. Tylka
ApJ Supplement **2017**
http://www.astro.umd.edu/~share/publications/share_2017.pdf **File**

Origin of Radio Enhancements in Type II Bursts in the Outer Corona
Firas **Al-Hamadani,** Silja Pohjolainen, Eino Valtonen
Solar Physics September **2017**, 292:127

https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1148-6.pdf

Ground level enhancements of cosmic rays in solar cycle 24
M V **Kravtsova** and V E Sdobnov
Astronomy Letters July **2017**, Volume 43, Issue 7, pp 501–506

Solar Energetic Particles measured by AMS-02
V. **Bindi**
34th ICRC 30 July- 6 August, **2015** The Hague, The Netherlands
https://pos.sissa.it/archive/conferences/236/108/ICRC2015_108.pdf

A Hierarchical Relationship between the Fluence Spectra and CME Kinematics in Large Solar Energetic Particle Events: A Radio Perspective
N **Gopalswamy**, P Mäkelä, S Yashiro, N Thakur, S Akiyama, H Xie
Journal of Physics: Conference Series (JPCS), Proceedings of the 16th Annual International Astrophysics Conference held in Santa Fe, NM, **2017**
https://arxiv.org/ftp/arxiv/papers/1707/1707.00209.pdf

Implications of improved measurements of the highest energy SEPs by AMS and PAMELA **Review**
K. **Whitman**, , V. Bindi, C. Consolandi, C. Corti, B. Yamashiro
Advances in Space Research Volume 60, Issue 4, 15 August **2017**, Pages 768–780
http://sci-hub.cc/10.1016/j.asr.2017.02.042

Multi-spacecraft observations and transport simulations of solar energetic particles for the May 17th 2012 GLE event
M. **Battarbee**, J. Guo, S. Dalla, R. Wimmer-Schweingruber, B. Swalwell, D. J. Lawrence
A&A **2017**
https://arxiv.org/pdf/1706.08458.pdf

Exploring the potential of microwave diagnostics in SEP forecasting: The occurrence of SEP events
Pietro **Zucca**, Marlon Núñez and Karl-Ludwig Klein
J. Space Weather Space Clim., 7, A13 (**2017**) **File**
https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170001.pdf

On the time evolution of brightness, volume and height of a coronal source in an M-class flare
Kazi A. **Firoz**, W. Q. Gan, Y. P. Li, J. Rodríguez-Pacheco & Y. Su
Astrophys Space Sci (**2017**) 362: 113.
http://sci-hub.cc/10.1007/s10509-017-3092-1

On the Spatial Distribution of Element Abundances and Ionization States in Solar Energetic-Particle Events
Donald V. **Reames**
Solar Phys. **2017**
https://arxiv.org/pdf/1705.07471.pdf

Characterizing Solar Energetic Particle Event Profiles with Two-Parameter Fits
Stephen W. **Kahler**, Alan G. Ling
Solar Physics April **2017**, 292:59
http://link.springer.com/content/pdf/10.1007%2Fs11207-017-1085-4.pdf

A propagation tool to connect remote-sensing observations with in-situ measurements of heliospheric structures
A.P. **Rouillard**, B. Lavraud, V. Genot, M. Bouchemit, N. Dufourg, I. Plotnikov, R.F. Pinto, E. Sanchez-Diaz, M. Lavarra, M. Penou, C. Jacquey, N. Andre, S. Caussarieu, J.-P. Toniutti, D. Popescu, E. Buchlin, S. Caminade, P. Alingery, J.A. Davies, D. Odstrcil, L. Mays
Planetary and Space Science **2017**
https://arxiv.org/pdf/1702.00399v1.pdf

Global Energetics of Solar Flares and CMEs: V. Energy Closure
Markus J. **Aschwanden**, Amir Campi, Christina M.S. Cohen, Gordon Holman, Ju Jing, Matthieu Kretzschmar, Eduard P. Kontar, James McTiernan, Richard A. Mewaldt, Aidan O'Flannagain, Ian G. Richardson, Daniel Ryan, Harry P. Warren, Yan Xu
ApJ **2017**
https://arxiv.org/pdf/1701.01176v1.pdf

Solar Energetic Particle Events with Protons Above 500 MeV Between 1995 and 2015 Measured with SOHO/EPHIN
P. **Kühl**, N. Dresing, B. Heber, A. Klassen
Solar Physics January **2017**, 292:10
http://link.springer.com/article/10.1007/s11207-016-1033-8

FLARE VERSUS SHOCK ACCELERATION OF HIGH-ENERGY PROTONS IN SOLAR ENERGETIC PARTICLE EVENTS
E. W. **Cliver**
2016 ApJ 832 128 **File**
http://sci-hub.cc/10.3847/0004-637X/832/2/128

Analysis of Ground Level Enhancements (GLE): Extreme solar energetic particle events have hard spectra
E. **Asvestari**, T. Willamo, A. Gil, I.G. Usoskin, G.A. Kovaltsov, V.V. Mikhailov, A. Mayorov
Advances in Space Research **2016**
https://arxiv.org/pdf/1612.02446v1.pdf

Segmental interpolating spectra for solar particle events and in situ validation
S. **Hu**, C. Zeitlin, W. Atwell, D. Fry, J.E. Barzilla, E. Semones
Space Weather Volume 14, Issue 10 October **2016** Pages 742–753
http://sci-hub.cc/doi/10.1002/2016SW001476

Energy dependence of SEP electron and proton onset times
H. Xie, P. Mäkelä, N. Gopalswamy, O. C. St. Cyr
JGR Volume 121, Issue 7 July 2016 Pages 6168–6183
http://arxiv.org/pdf/1609.08171v1.pdf

ARE THERE TWO DISTINCT SOLAR ENERGETIC PARTICLE RELEASES IN THE 2012 MAY 17 GROUND LEVEL ENHANCEMENT EVENT?
Liu-Guan **Ding**1, Yong Jiang2, and Gang Li
2016 ApJ 818 169

Thermosphere and geomagnetic response to interplanetary coronal mass ejections observed by ACE and GRACE: Statistical results
S. **Krauss**, M. Temmer, A.M. Veronig, O. Baur, H. Lammer
JGR **2015**
http://arxiv.org/pdf/1510.03549v1.pdf

High-energy solar particle events in cycle 24
Nat **Gopalswamy**, Pertti Makela, Seiji Yashiro, Hong Xie, Sachiko Akiyama, Neeharika Thakur
The 14th International Astrophysics Conference held in Tampa, FL during April 24-29, 2015. Accepted for publication in Journal of Physics: Conference Series (JPCS). edited by G. Zank, **2015**
http://arxiv.org/ftp/arxiv/papers/1507/1507.06162.pdf; **File**

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations
A. **Nindos**, S. Patsourakos, A. Vourlidas, C. Tagikas
ApJ **2015**
http://arxiv.org/pdf/1507.03766v1.pdf

Interplanetary particle transport simulation for warning system for aviation exposure to solar energetic particles
Yûki **Kubo**, Ryuho Kataoka, Tatsuhiko Sato
Earth, Planets and Space **2015**
http://arxiv.org/pdf/1506.00825v1.pdf

The low energy magnetic spectrometer on Ulysses and ACE response to near relativistic protons
Bruno **Morgado**1,2, Dalmiro Jorge Filipe Maia2, Louis Lanzerotti3, Patrícia Gonçalves1 and J. Douglas Patterson
A&A 577, A61 (**2015)**

Observation of solar high energy gamma and X-ray emission and solar energetic particles
Alexei **Struminsky**, Weiqun Gan
24th European Cosmic Ray Symposium, Kiel, September 2014, **2015**

Proton intensity spectra during the solar energetic particle events of May 17, 2012 and January 6, 2014
P. **Kühl**1, S. Banjac1, N. Dresing1, R. Goméz-Herrero2, B. Heber1, A. Klassen1 and C. Terasa
A&A 576, A120 (**2015**)
https://www.aanda.org/articles/aa/pdf/2015/04/aa24874-14.pdf

PAMELA's Measurements of Magnetospheric Effects on High Energy Solar Particles
O. **Adriani**, G. C. Barbarino, G. A. Bazilevskaya et al.
ApJL **2015**
http://arxiv.org/pdf/1502.00935v1.pdf

Computation of dose rate at flight altitudes during ground level enhancements no. 69, 70 and 71
A.L. **Mishev**, F. Adibpourb, I.G. Usoskinc, d, E. Felsbergerb
Advances in Space Research, Volume 55, Issue 1, 1 January **2015**, Pages 354–362
http://www.sciencedirect.com/science/article/pii/S0273117714003822

An Interpretation of a Possible Mechanism for the First Ground-Level Enhancement of Solar Cycle 24
K. A. **Firoz**, W. Q. Gan, Y. P. Li, J. Rodríguez-Pacheco
Solar Phys. **201**4

An Interpretation of GLE71 Concurrent CME-driven Shock Wave
Firoz, Kazi A.; Zhang, Q. M.; Gan, W. Q.; Li, Y. P.; Rodríguez-Pacheco, J.; Moon, Y.-J.; Kudela, K.; Park, Y.-D.; Dorman, Lev I.
Astrophysical Journal Supplement, Volume 213, Issue 2, article id. 24, 14 pp. (**2014**)

On the possible mechanism of the first ground level enhancement in cosmic ray intensity of solar cycle 24
Firoz, Kazi A.; Gan, W. Q.; Li, Y. P.; Rodriguez-Pacheco, J.
Astrophysics and Space Science, Volume 350, Issue 1, pp.21-32, **2014**

Proton activity of the Sun in current solar cycle 24
Chuan **Li**, Leonty Miroshnichenko, Cheng Fang
RAA (Research in Astronomy and Astrophysics), **2014**
http://arxiv.org/pdf/1408.2308v1.pdf

Statistical survey of widely spread out solar electron events observed with STEREO and ACE with special attention to anisotropies
N. **Dresing**, R. G?mez-Herrero, B. Heber, A. Klassen, O. Malandraki , W. Dr?ge , and Y. Kartavykh
E-print, July 2014; A&A, Volume 567, A27, July **2014; File**

Ground Level Enhancement in the 2014 January 6 Solar Energetic Particle Event
N. **Thakur**, N. Gopalswamy, H. Xie, P. Makela, S. Yashiro, S. Akiyama, J.M. Davila
E-print, July **2014; File**; ApJL
http://arxiv.org/pdf/1406.7172v2.pdf

The relativistic solar particle event of May 17th, 2012 observed on board the International Space Station
Francesco **Berrilli**1*, Marco Casolino2,3, Dario Del Moro1, Luca Di Fino1,2, Marianna Larosa1,2, Livio Narici1,2, Roberto Piazzesi1, Piergiorgio Picozza1,2, Stefano Scardigli1, Roberta Sparvoli1,2, Marco Stangalini4 and Veronica Zaconte
J. Space Weather Space Clim. 4 (**2014**) A16
http://www.swsc-journal.org/articles/swsc/pdf/2014/01/swsc130061.pdf

The Ground-level Enhancement of 2012 May 17: Derivation of Solar Proton Event Properties through the Application of the NMBANGLE PPOLA Model
Christina **Plainaki**, Helen Mavromichalaki, Monica Laurenza, Maria Gerontidou, Anastasios Kanellakopoulos, and Marisa Storini
2014 ApJ 785 160

Analysis of the ground level enhancement on May 17, 2012 using data from the global neutron monitor 2 Network
A.L. **Mishev**, L.G. Kocharov and I.G. Usoskin
JGR, Volume 119, Issue 2, pages 670–679, February **2014**
http://onlinelibrary.wiley.com/doi/10.1002/2013JA019253/pdf
http://onlinelibrary.wiley.com/doi/10.1002/2013JA019253/abstract

Latitudinal Connectivity of Ground Level Enhancement Events
N. **Gopalswamy** and P. Mäkelä
Proceedings of: 12th Annual International Astrophysical Conference, ASP Conference Series, ed. Q. Hu and G. Zank, in press, **2013; File**
http://cdaw.gsfc.nasa.gov/publications/gopal/gopal2013IAC.pdf
http://arxiv.org/pdf/1310.8506v1.pdf

Relations between strong high-frequency microwave bursts and proton events
V. **Grechnev**, N. Meshalkina, I. Chertok, V. Kiselev
E-print, Aug **2013**; PASJ **65**, S4, **2013**
http://arxiv.org/pdf/1308.2275v1.pdf
See Section 4.2. Exceptional mM Events

СОЛНЕЧНЫЕ ПРОТОННЫЕ СОБЫТИЯ В КОНЦЕ 23-ГО И НАЧАЛЕ 24-ГО СОЛНЕЧНЫХ ЦИКЛОВ, ЗАРЕГИСТРИРОВАННЫЕ В ЭКСПЕРИМЕНТЕ ПАМЕЛА
Базилевская Г.А., Майоров А.Г., Малахов В.В., Михайлов В.В., Адриани О., Барбарино Д.С., Белотти Р., Боецио М., Богомолов Э.А., Бонвичини В., Бонджи М., Бонеки Л., Борисов С.В., Боттаи С., Бруно А., Вакки А., Вануччини Е., Васильев Г.И., Воронов С.А., Ву Ю. и др.
Известия РАН, Серия физическая, том 77, № 5, с. 557–560, **2013**.
http://elibrary.ru/item.asp?id=19051518
English paper: http://iopscience.iop.org/1742-6596/409/1/012188/pdf/1742-6596_409_1_012188.pdf

ELECTRON AND PROTON ACCELERATION DURING THE FIRST GROUND LEVEL ENHANCEMENT EVENT OF SOLAR CYCLE 24
C. **Li**1,2, Kazi A. Firoz3, L. P. Sun1, and L. I. Miroshnichenko
2013 ApJ 770 34
http://arxiv.org/pdf/1305.5606v1.pdf

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES
M. **Ackermann**2, M. Ajello3, A. Albert4, A. Allafort5,1, L. Baldini6, G. Barbiellini7,8, D. Bastieri et al.
Fermi-LAT collaboration
E-print, April **2013, File**; ApJ

THE FIRST GROUND LEVEL ENHANCEMENT EVENT OF SOLAR CYCLE 24: DIRECT OBSERVATION OF SHOCK FORMATION AND PARTICLE RELEASE HEIGHTS
N. **Gopalswamy**1, H. Xie1,2, S. Akiyama1,2, S. Yashiro1,2, I. G. Usoskin3, and J. M. Davila
2013 ApJ 765 L30
http://cdaw.gsfc.nasa.gov/publications/gopal/gopal2013ApJL.pdf
http://arxiv.org/pdf/1302.1474v1.pdf

COMPOUND TWIN CORONAL MASS EJECTIONS IN THE 2012 MAY 17 GLE EVENT
C. **Shen**1,2, G. Li3, X. Kong3,4, J. Hu3, X. D. Sun2, L. Ding5, Y. Chen4, Yuming Wang1, and L. Xia
2013 ApJ 763 114
http://iopscience.iop.org/0004-637X/763/2/114/pdf/0004-637X_763_2_114.pdf

Solar energetic particle events in 2006-2012 in the PAMELA experiment data
G A **Bazilevskaya** et al
2013 J. Phys.: Conf. Ser. 409 012188
http://iopscience.iop.org/1742-6596/409/1/012188/pdf/1742-6596_409_1_012188.pdf

Large SEP events of 2012: proton onset and source function
Alexei **Struminsky**
2013 J. Phys.: Conf. Ser. 409 012148
http://iopscience.iop.org/1742-6596/409/1/012148/pdf/1742-6596_409_1_012148.pdf

A study of the first solar proton event of current solar cycle recorded by satellites and ground based detectors
Gerontidou, M.; Mavromichalaki, H.; Plainaki, C.; Belov, A.; Eroshenko, E.; Yanke, V.; Laurenza, M.; Storini, M.
The 11th Hellenic Astronomical Conference, held 8-12 September, 2013 in Athens, Greece. Online at http://www.helas.gr/conf/2013/, pp.17-17, **2013**

The first ground level enhancement of solar cycle 24 on 17 May 2012 and its real time detection
A. **Papaioannou**, G.Souvatzoglou, P.Paschalis, M.Gerontidou, H. Mavromichalaki
Solar Physics, 289, 423-436, **2013**
http://cosray.phys.uoa.gr/publications/D99.pdf

Ground Level Enhancement of May 17, 2012 Observed at South Pole
Takao **Kuwabara**1,3; John Bieber1; John Clem1,3; Paul Evenson1,3; Tom Gaisser1,3; Roger Pyle2; Serap Tilav
http://neutronm.bartol.udel.edu/Talks/Kuwabara_FallAGU_2012.pdf

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**
http://cdaw.gsfc.nasa.gov/publications/gopal/gopal2012IAC.pdf

A Tell-Tale Sign of a Wimpy Solar Cycle: the First GLE Event of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan **2013**; IAU General assembly, **2012**
http://cdaw.gsfc.nasa.gov/publications/gopal/gopal2012IAU.pdf

May 18

Segmental interpolating spectra for solar particle events and in situ validation
S. **Hu**, C. Zeitlin, W. Atwell, D. Fry, J.E. Barzilla, E. Semones
Space Weather Volume 14, Issue 10 October **2016** Pages 742–753
http://sci-hub.cc/doi/10.1002/2016SW001476

On the Area Expansion of Magnetic Flux-Tubes in Solar Active Regions
Dudik, J., Dzifcakova, E., Cirtain, J. W.
ApJ, **2014**
http://arxiv.org/pdf/1409.6947v1.pdf

DETERMINING HEATING TIME SCALES IN SOLAR ACTIVE REGION CORES FROM AIA/*SDO* FE XVIII IMAGES
IGNACIO **UGARTE-URRA**1 AND HARRY P. WARREN2
eprint arXiv:1311.6346, ApJ, **2014**
http://arxiv.org/abs/1311.6346

19 May

Prominence and Filament Eruptions Observed by the Solar Dynamics Observatory: Statistical Properties, Kinematics, and Online Catalog
Patrick I. **McCauley**, Yingna Su, Nicole Schanche, Kaitlin E. Evans, Chuan Su, Sean McKillop, Katharine K. Reeves
Solar Phys. **2015**
http://arxiv.org/pdf/1505.02090v1.pdf

May 21 eclipse

Predicting the Geoeffectiveness of CMEs Using Machine Learning
Andreea-Clara **Pricopi**, Alin Razvan Paraschiv, Diana Besliu-Ionescu, Anca-Nicoleta Marginean
ApJ **2022**
https://arxiv.org/pdf/2206.11472.pdf

Goldstone Apple Valley Radio Telescope Observations of 2012 Solar Eclipse: A Multi-wavelength study of cm-wavelength Gyroresonance Emission from Active Regions
T. **Velusamy**, T. B. H Kuiper, S. M. Levin R. Dorcey, N. Kreuser-Jenkins, J. Leflang

PASP **2020**
https://arxiv.org/ftp/arxiv/papers/2007/2007.05058.pdf

Solar rotation inferred from radial velocities of the sun-as-a-star during the 2012 May 21 eclipse
Yoichi **Takeda**, Osamu Ohshima, Eiji Kambe, Hiroyuki Toda, Hisashi Koyano, Bun'ei Sato, Yasuhisa Nakamura, Norio Narita, Takashi Sekii
Publ. Astron. Soc. Japan, 2014
http://arxiv.org/pdf/1411.1481v1.pdf

Goldstone Apple Valley Radio Telescope Observations of 2012 Solar Eclipse: A Multi-wavelength study of cm-wavelength Gyroresonance Emission from Active Regions
T. **Velusamy**, T. B. H Kuiper, S. M. Levin R. Dorcey, N. Kreuser-Jenkins, J. Leflang
PASP **2020**
https://arxiv.org/ftp/arxiv/papers/2007/2007.05058.pdf

May 22

High-precision Multichannel Solar Image Registration Using Image Intensity
Bo **Liang**1, Xi Chen1, Lan Yu2, Song Feng6,1, Yangfan Guo1, Wenda Cao3,4, Wei Dai1, Yunfei Yang1, and Ding Yuan5
2022 ApJS 261 10
https://iopscience.iop.org/article/10.3847/1538-4365/ac7232/pdf

Achievements and Lessons Learned from Successful Small Satellite Missions for Space Weather-Oriented Research
Harlan E. **Spence**, Amir Caspi, Hasan Bahcivan, Jesus Nieves-Chinchilla, Geoff Crowley, James Cutler, Chad Fish, David Jackson, Therese Moretto Jørgensen, David Klumpar, Xinlin Li, James P. Mason, Nick Paschalidis, John Sample, Sonya Smith, Charles M. Swenson, Thomas N. Woods
Space Weather **2022**
https://arxiv.org/ftp/arxiv/papers/2206/2206.02968.pdf

Proton activity of the Sun in current solar cycle 24
Chuan **Li**, Leonty Miroshnichenko, Cheng Fang
RAA (Research in Astronomy and Astrophysics), **2014**
http://arxiv.org/pdf/1408.2308v1.pdf

Kink Instability Evidenced by Analyzing the Leg Rotation of a Filament
X. L. **Yan**1,2, Z. K. Xue1, J. H. Liu3, L. Ma1, D. F. Kong1, Z. Q. Qu1, and Z. Li
2014 ApJ 782 67

23 May
Measuring magnetic field with Atacama Large Millimeter/Submillimeter Array **Review**
Maria **Loukitcheva**
Front. Astron. Space Sci. **7**:45 **2020**
https://www.frontiersin.org/articles/10.3389/fspas.2020.00045/full?utm_source=F-AAE&utm_medium=EMLF&utm_campaign=MRK_1406443_76_Astron_20200818_arts_A
https://doi.org/10.3389/fspas.2020.00045

25 May – 10:21: C1.6 вспышка, **пересвет** на STEREO-B, B=5*2/300=0,033
12:36: C2.0 вспышка, **пересвет** на STEREO-B, B=6*2/300=0,04

May 25 and CR 2124

Measuring three-dimensional shapes of stable solar prominences using stereoscopic observations from SDO and STEREO
Chengrui **Zhou**, Chun Xia, Yuandeng Shen
A&A **2021**
https://arxiv.org/pdf/2103.07111.pdf

Global Solar Free Magnetic Energy and Electric Current Density Distribution of Carrington Rotation 2124
Tilaye **Tadesse**, Alexei A. Pevtsov, T. Wiegelmann, P. J. MacNeice, S. Gosain
Solar Physics November **2014**, Volume 289, Issue 11, pp 4031-4045

26 May – 16:16: C2.7 **пересвет** B=7,5*2/300=0,05 ←16s 8s→ B=7,5/300=0.025

May 26 - 20:45, AR 11476 several days behind the west limb. This major event was associated with a full halo CME and a **noticable increase in the above 10 MeV proton flux**.

Reconstruction of the magnetic connection from Mercury to the solar corona during enhancements in the solar proton fluxes at Mercury
A. **Ippolito**1,2, C. Plainaki1, G. Zimbardo3, T. Alberti4, S. Massetti4, A. Milillo4 and S. Orsini4
A&A 660, A50 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/04/aa42328-21.pdf

Early-stage Solar Energetic Particle Acceleration by Coronal Mass Ejection-driven Shocks with Realistic Seed Spectra. I. Low Corona
Kamen A. **Kozarev**1, Maher A. Dayeh2,3, and Ashraf Farahat4
2019 ApJ 871 65
sci-hub.tw/10.3847/1538-4357/aaf1ce

Study of Solar Energetic Particle Associations with Coronal Extreme-ultraviolet Waves
Jinhye **Park**1, D. E. Innes2, R. Bucik2,3, Y.-J. Moon1,4, and S. W. Kahler
2015 ApJ 808 3 **File**
https://www.academia.edu/35052617/STUDY_OF_SOLAR_ENERGETIC_PARTICLE_ASSOCIATIONS_WITH_CORONAL_EXTREME-ULTRAVIOLET_WAVES?email_work_card=view-paper

Observations of Coronal Mass Ejections with the Coronal Multichannel Polarimeter
H. Tian, S. Tomczyk, S. W. McIntosh, C. Bethge, G. de Toma, S. Gibson
E-print, March **2013, File**; Sol. Phys. (**2013**) 288:637–650

27May – 06:16: C3.1 **пересвет** B=13*2/300=0,087 ←16s 8s→ B=13/300=0.043

May 27 - SE AR1492 erupted at 05:51, producing a LDE C3-class flare and hurling a coronal mass ejection (CME) toward Mars.

On the Role of Interplanetary Shocks in Accelerating MeV Electrons
N. Talebpour **Sheshvan**, N. Dresing, R. Vainio, A. Afanasiev, D. E. Morosan
A&A **2023**
https://arxiv.org/pdf/2301.05587.pdf

High-energy solar particle events in cycle 24
Nat **Gopalswamy**, Pertti Makela, Seiji Yashiro, Hong Xie, Sachiko Akiyama, Neeharika Thakur
The 14th International Astrophysics Conference held in Tampa, FL during April 24-29, 2015. Accepted for publication in Journal of Physics: Conference Series (JPCS). edited by G. Zank, **2015**
http://arxiv.org/ftp/arxiv/papers/1507/1507.06162.pdf; **File**

ARE GIANT TORNADOES THE LEGS OF SOLAR PROMINENCES?

Sven **Wedemeyer**1, Eamon Scullion1, Luc Rouppe van der Voort1, Antonija Bosnjak1, and Patrick Antolin
2013 ApJ 774 123
http://arxiv.org/abs/1306.2661

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

May 27-30

Solar wind prediction using deep learning
Vishal **Upendran**, M.C.M Cheung, Shravan Hanasoge, Ganapathi Krishnamurthi
Space Weather **2020**
https://arxiv.org/pdf/2006.05825.pdf

May 28

On the formation of a stable penumbra in a region of flux emergence in the Sun
M. **Murabito**, P. Romano, S. L. Guglielmino, F. Zuccarello
ApJ **2016**
https://arxiv.org/pdf/1611.04749v1.pdf

Semiempirical photospheric models of a solar flare on May 28, 2012
E.S. **Andriets**, , N.N. Kondrashova
Advances in Space Research, Volume 55, Issue 3, 1 February **2015**, Pages 871–878
http://www.sciencedirect.com/science/article/pii/S0273117714004827

May 28-29

Recent insights on the penumbra formation process
M. **Murabito**, P.Romano, F. Zuccarello, S.L.Guglielmino
"Nuovo Cimento C" as proceeding of the Third Meeting of the Italian Solar and Heliospheric Community **2019**
https://arxiv.org/pdf/1901.05207.pdf

Formation of the penumbra and start of the Evershed flow
M. **Murabito**, P. Romano, S. L. Gugliemino, F. Zuccarello, S.K. Solanki
ApJ **2016**
http://arxiv.org/pdf/1604.05610v1.pdf

May 30

Comparison of damping models for kink oscillations of coronal loops
Yu **Zhong**,1 Dmitrii Y. Kolotkov , 1,2 Sihui Zhong 1 and Valery M. Nakariakov
Monthly Notices of the Royal Astronomical Society, Volume 525, Issue 4, 2023, Pages 5033–5040,
https://doi.org/10.1093/mnras/stad2598
https://watermark.silverchair.com/stad2598.pdf
https://warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/zhong_y_23.pdf

A statistical study of decaying kink oscillations detected using SDO/AIA
C. R. **Goddard**, G. Nistic`o, V. M. Nakariakov, I. V. Zimovets
A&A **201**5
http://arxiv.org/pdf/1511.03558v1.pdf

Decayless coronal loop oscillations seen by SDO/AIA
Giuseppe **Nisticò**, V. M. Nakariakov, and E. Verwichte
UKSP Nugget: 35, May **2013**
http://www.uksolphys.org/?p=6162

31 May – 1 June
On Flare and CME Predictability Based on Sunspot Group Evolution
M. B. **Korsos**,1,2 and M. S. Ruderman2
Ground-based Solar Observations in the Space Instrumentation Era
ASP Conference Series, Vol. 504 p. 43, **2016**
http://aspbooks.org/publications/504/043.pdf

2 June
Inflows in the Inner White-light Corona: The Closing-down of Flux after Coronal Mass Ejections
P. **Hess** and Y.-M. Wang
2017 ApJ 850 6
http://sci-hub.cc/10.3847/1538-4357/aa921d

Identification of Low Coronal Sources of "Stealth" Coronal Mass Ejections Using New Image Processing Techniques
Nathalia **Alzate** and Huw Morgan
2017 ApJ 840 103
http://sci-hub.cc/10.3847/1538-4357/aa6caa

3 June – 17:56: M5.1 вспышка, **пересвет** на STEREO-B, B=27*2/300=0,18

June 3 - New sunspot 1496 (N16E38) unleashed **a VERY impulsive M3-class flare** at 1755 UT**. Корональная волна (see PROBA), в том числе в H-альфа, приличный CME, type II**

Relationships between Photospheric Vertical Electric Currents and Hard X-Ray Sources in Solar Flares: Statistical Study
I.V. **Zimovets**, I.N. Sharykin, W.Q. Gan
ApJ **2020**
https://arxiv.org/pdf/2002.06646.pdf

Особенности развития длительных потоков высокоэнергичного гамма-излучения на разных стадиях солнечных вспышек.
Минасянц Г.С., Минасянц Т.М., Томозов В.М.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 5. **2019**. № 3. С. 11–20
https://naukaru.ru/ru/storage/view/39748

Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles
G. A. **de Nolfo**, A. Bruno, J. M. Ryan, S. Dalla, J. Giacalone, I. G. Richardson, E. R. Christian, S. J. Stochaj, G. A. Bazilevskaya, M. Boezio, M. Martucci, V. V. Mikhailov, R. Munini
ApJ **2019**
https://arxiv.org/pdf/1905.12878.pdf **File**

X-Ray, Radio and SEP Observations of Relativistic Gamma-Ray Events **Review**
Karl-Ludwig **Klein,** Kostas Tziotziou, Pietro Zucca, Eino Valtonen, Nicole Vilmer, Olga E. Malandraki, Clarisse Hamadache, Bernd Heber, and Jürgen Kiener
In: O.E. Malandraki, N.B. Crosby (eds.), Solar Particle Radiation Storms Forecasting and Analysis

Chapter 8, **2018**
https://link.springer.com/content/pdf/10.1007%2F978-3-319-60051-2.pdf
File Malandraki_Crosby_SEPs_Forecasting and Analysis_Book.pdf

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE **Thesis Catalog (2010-2017)**
Allafort, A. J.
(**2018**). PhD thesis, Stanford Univ. **File**
https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

Decameter Type III Bursts with Changing Frequency Drift-Rate Signs
V.N.**Melnik**, A.I.Brazhenko, A.A.Konovalenko, C.Briand, V.V.Dorovskyy, P.Zarka, A.V.Frantsuzenko, H.O.Rucker, B.P.Rutkevych, M.Panchenko, L.Denis,T.Zaqarashvili, B.Shergelashvili
Solar phys. **2018**
https://arxiv.org/ftp/arxiv/papers/1802/1802.08336.pdf

Proton Acceleration by Very Impulsive Flare on June 3, 2012
K. **Kamiya**, 1) K. Koga, 1) S. Masuda, 2) H. Matsumoto, 1) Y. Muraki, 2) T. Obara, 3) O. Okudaira, 4) Y. Tanaka, 5) S. Shibata, 6) and T. Goka1)
Proc. of 35th International Cosmic Ray Conference — ICRC2017 10–20 July, **2017** Bexco, Busan, Korea
https://pos.sissa.it/301/115/pdf

Characteristics of Sustained >100 γ-ray Emission Associated with Solar Flares
G. H. **Share**, R. J. Murphy, A. K. Tolbert, B. R. Dennis, S. M. White, R. A. Schwartz, and A. J. Tylka
ApJ Supplement **2017**
http://www.astro.umd.edu/~share/publications/share_2017.pdf **File**

Transient Mass Loss Analysis of Solar Observations using Stellar Methods
M. K. **Crosley**, R. A. Osten, C. Norman
2017
https://arxiv.org/pdf/1707.01928.pdf

IMPULSIVITY PARAMETER FOR SOLAR FLARES
W. G. **Fajardo-Mendieta**1,2, J. C. Mart?nez-Oliveros3, J. D. Alvarado-G?mez1,4,5, and B. Calvo-Mozo
2016 ApJ 818 56
http://arxiv.org/pdf/1602.03958v1.pdf

The Search for >35 MeV Neutrons from the June 3, 2012 Impulsive Flare
K. **Koga**, S. Masuda, H. Matsumoto, Y. Muraki, T. Obara O. Okudaira, S. Shibata, T. Yamamoto, T. Goka
Proceeding of the 34th International Cosmic Ray Conference in Hague in August, 2015, **2015**
http://arxiv.org/ftp/arxiv/papers/1508/1508.04930.pdf

Observation of solar high energy gamma and X-ray emission and solar energetic particles
Alexei **Struminsky**, Weiqun Gan
24th European Cosmic Ray Symposium, Kiel, September 2014, **2015**

Analysis of the Impulsive Phase of Solar Flares with Pass 8 LAT data
R. **Desiante**, F. Longo, N. Omodei, M. Pesce-Rollins, V. Pelassa for the Fermi-LAT Collaboration
2014 Fermi Symposium proceedings - eConf C141020.1
http://arxiv.org/pdf/1502.04916v1.pdf

Moreton Waves and EIT Waves Related to the Flare Events of June 3, 2012 and July 6, 2012
A. G. **Admiranto**, R. Priyatikanto, U. Yus'an, E. Puspitaningrum
International Conference on Mathematics and Natural Sciences **2014**

http://arxiv.org/pdf/1502.04039v1.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

Moreton Waves Related to the Flare Event in 3 June 2012 and 6 July 2012
Agustinus Gunawan **Admiranto**, Rhorom Priyatikanto
Journal of the Korean Astronomical Society (http://jkas.kas.org), **2014**
http://arxiv.org/pdf/1408.6677v1.pdf

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES
M. **Ackermann**2, M. Ajello3, A. Albert4, A. Allafort5,1, L. Baldini6, G. Barbiellini7,8, D. Bastieri et al.
Fermi-LAT collaboration
E-print, April **2013, File**; ApJ

June 5 – A filament eruption near AR 11493 and close to the central meridian was observed beginning at 19:30 UTC. A small CME was observed at 20:39 UTC in STEREO-A.

June 5-6 the Venus transit

Structure of the transition region and the low corona from TRACE and SDO observations near the limb
C. E. **Alissandrakis**, A. Valentino
Solar Phys. **2019**
https://arxiv.org/pdf/1906.09497.pdf

On the occurrence of thermal non-equilibrium in coronal loops
C. **Froment**, F. Auchère, Z. Mikić, G. Aulanier, K. Bocchialini, E. Buchlin, J. Solomon, E. Soubrié
ApJ **2018**
https://arxiv.org/pdf/1802.04010.pdf

Non-parametric PSF estimation from celestial transit solar images using blind deconvolution
Adriana **González**1*, Véronique Delouille2 and Laurent Jacques
J. Space Weather Space Clim., 6, A1 (**2016**)
http://www.swsc-journal.org/articles/swsc/pdf/2016/01/swsc140059.pdf

Achieving Consistent Doppler Measurements from SDO/HMI Vector Field Inversions
P. W. **Schuck**, Spiro Antiochos, K.D. Leka, Graham Barnes
ApJ **201**5
http://arxiv.org/pdf/1511.06500v1.pdf

June 6 - A partial halo CME associated with an M2 flare in AR 11494 was observed from 20:39 UTC in LASCO images. **Корональная волна.**

Differential Emission Measure Evolution as a Precursor of Solar Flares
C. **Gontikakis** (1), I. Kontogiannis (2), M.K. Georgoulis (1,3), C. Guennou (4), P. Syntelis (5), S.H. Park (6), E. Buchlin
2020
https://arxiv.org/pdf/2011.06433.pdf

Solar sources of interplanetary magnetic clouds leading to helicity prediction
Roger K. **Ulrich**, Pete Riley, T. Tran
Space Weather **2018**
https://arxiv.org/ftp/arxiv/papers/1811/1811.03560.pdf

Statistics of coronal dimmings associated with coronal mass ejections.
I. Characteristic dimming properties and flare association
Karin **Dissauer**, Astrid M. Veronig, Manuela Temmer, Tatiana Podladchikova, Kamalam Vanninathan
ApJ **2018**
https://arxiv.org/pdf/1807.05056.pdf

Multi-label Learning for Detection of CME-Associated Phenomena
Y. H. **Yang**, H. M. Tian, B. Peng, T. R. Li, Z. X. Xie
Solar Physics September **2017**, 292:131
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1136-x.pdf

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics
Markus J. Aschwanden
ApJ 2016
http://arxiv.org/pdf/1605.04952v1.pdf File
http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

Type II and Type III Radio Bursts and their Correlation with Solar Energetic Proton Events
L.M. **Winter**, K. Ledbetter
ApJ **2015**
http://arxiv.org/pdf/1507.01620v1.pdf

Solar type II radio bursts associated with CME expansions as shown by EUV waves
R. D. **Cunha-Silva**, F. C. R. Fernandes, C. L. Selhorst
A&A **2015**
http://arxiv.org/pdf/1504.04323v1.pdf

June 7
Evidence for evaporation-incomplete condensation cycles in warm solar coronal loops
Clara **Froment**, Frédéric Auchère, Karine Bocchialini, Eric Buchlin, Chloé Guennou, Jacques Solomon
2015
http://arxiv.org/pdf/1504.08129v1.pdf

Sunspot waves and flare energy release
R. **Sych**, M. Karlický, A. Altyntsev, J. Dudík, L. Kashapova
A&A, **2014**
http://arxiv.org/pdf/1409.2947v1.pdf

8 June

Automatic Detection of Interplanetary Coronal Mass Ejections in Solar Wind In Situ Data
Hannah T. **Rüdisser**, Andreas Windisch, Ute V. Amerstorfer, Christian Möstl, Tanja Amerstorfer, Rachel L. Bailey, Martin A. Reiss
Space Weather **2022**
https://arxiv.org/pdf/2205.03578.pdf

Temperature in Solar Sources of 3He-rich Solar Energetic Particles and Relation to Ion Abundances
R. **Bucik**, S. M. Mulay, G. M. Mason, N. V. Nitta, M. I. Desai, M. A. Dayeh
ApJ **2021**
https://arxiv.org/pdf/2012.15390.pdf

Hydrogen and the Abundances of Elements in Impulsive Solar Energetic-Particle Events
Donald V. **Reames**
Solar Phys. **2019**
https://arxiv.org/ftp/arxiv/papers/1901/1901.04369.pdf

A STEREO Survey of Magnetic Cloud Coronal Mass Ejections Observed at Earth in 2008--2012
Brian E. **Wood**, Chin-Chun Wu, Ronald P. Lepping, Teresa Nieves-Chinchilla, Russell A. Howard, Mark G. Linton, Dennis G. Socker
Astrophysical Journal Supplement **2017 File**
https://arxiv.org/pdf/1701.01682v1.pdf

9 June – 11:31: M1.9 вспышка, **пересвет** на STEREO-B, B=17*2/167=0,2
16:56: M1.8 вспышка, **пересвет** на STEREO-B, B=10*2/167=0,12
Нет изображения 2048; только фильм

June 9 - A fast-growing active region near AR1499 is crackling with very impulsive M-class solar flares, including two on June 9th (1132 UT and 1650 UT).

Type II and Type III Radio Bursts and their Correlation with Solar Energetic Proton Events
L.M. **Winter**, K. Ledbetter
ApJ **2015**
http://arxiv.org/pdf/1507.01620v1.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

10 June – 06:46: M1.3 вспышка, **пересвет** на STEREO-B, B=24*2/300=0,16

10 June - New sunspot AR1504 is crackling with impulsive M-class solar flares.

11-15 June
Time-dependent Data-driven Modeling of Active Region Evolution Using Energy-optimized Photospheric Electric Fields
Jens **Pomoell**, Erkka Lumme, Emilia Kilpua
Solar Physics April **2019**, 294:41
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1430-x.pdf

11Jun-30Jul
Solar Energetic Particle-Associated Coronal Mass Ejections Observed by the Mauna Loa Solar Observatory Mk3 and Mk4 Coronameters
I. G. **Richardson** , O. C. St Cyr, J. T. Burkepile , H. Xie , B. J. Thompson
Solar Phys. **2023**
https://arxiv.org/pdf/2308.10826.pdf

12 June – >13 UT, крупная эрупция во всей южной полусфере; не очень значительный CME; a minor geostorm (Dst~-56) due to a glancing blow from a CME observed on 08 June.

Suprathermal Population Associated with Stream Interaction Regions Observed by STEREO-A: New Insights
Bijoy **Dalal**1,2, Dibyendu Chakrabarty1, Nandita Srivastava3, and Aveek Sarkar1
2024 ApJ 960 16
https://iopscience.iop.org/article/10.3847/1538-4357/ad08c6/pdf

12-16 June

Sun-to-Earth Observations and Characteristics of Isolated Earth-Impacting Interplanetary Coronal Mass Ejections During 2008 – 2014
D. **Maričić**, B. Vršnak, A. M. Veronig, M. Dumbović, F. Šterc, D. Roša, M. Karlica, D. Hržina & I. Romštajn
Solar Physics volume 295, Article number: 91 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01658-4.pdf

Multipoint Observations of the June 2012 Interacting Interplanetary Flux Ropes
Emilia K. J. **Kilpua** , Simon W. Good , Erika Palmerio , Eleanna Asvestari , Erkka Lumme, Matti Ala-Lahti, Milla M. H. Kalliokoski , Diana E. Morosan, Jens Pomoell, Daniel J. Price , Jasmina
Front. Astron. Space Sci. **2019**
sci-hub.se/10.3389/fspas.2019.00050
https://www.frontiersin.org/articles/10.3389/fspas.2019.00050/full

Prediction of Geomagnetic Storm Strength from Inner Heliospheric In Situ Observations
M. **Kubicka**, C. Möstl, T. Amerstorfer, P. D. Boakes, L. Feng, J. P. Eastwood, O. Tormanen
2016
https://arxiv.org/pdf/1610.06713v1.pdf

13 June - central AR1504 **erupted** at 1319 UT, producing a **very long-duration M1-flare** and hurling a **partial halo CME**

Narrowband spikes observed during the 13 June 2012 flare in the 800-2000 MHz range
M. **Karlicky**, J. Rybak, J. Benacek, J. Kasparova
Solar Phys. **2022**
https://arxiv.org/pdf/2204.09327.pdf

Modeling the Observed Distortion of Multiple (Ghost) CME Fronts in STEREO Heliospheric Imagers
Yutian **Chi**1,2,3, Christopher Scott2, Chenglong Shen1,3, Luke Barnard2, Mathew Owens2, Mengjiao Xu1, Jie Zhang4, Shannon Jones2, Zhihui Zhong1, Bingkun Yu1,2Show full author list
2021 ApJL 917 L16
https://iopscience.iop.org/article/10.3847/2041-8213/ac1203/pdf
https://doi.org/10.3847/2041-8213/ac1203

A new trigger mechanism for coronal mass ejections: the role of confined flares and photospheric motions in the formation of hot flux ropes
Alexander W **James**, Lucie M Green, Lidia van Driel-Gesztelyi, Gherardo Valori
A&A **2020**
https://arxiv.org/pdf/2010.11204.pdf

Temporal Evolution of Chromospheric Oscillations in Flaring Regions - A Pilot Study
Teresa **Monsue**, Frank Hill, Keivan G. Stassun
ApJ **2018**
https://arxiv.org/pdf/1803.02506.pdf

13-14 June

Investigating the Variations in Compositions and Heating of Interacting ICMEs
Nandita **Srivastava**, Zavkiddin Mirtoshev, and Wageesh Mishra
Front. Astron. Space Sci., 10 :1154612 **2023**
https://doi.org/10.3389/fspas.2023.1154612
https://www.frontiersin.org/articles/10.3389/fspas.2023.1154612/pdf

Sunspot Rotation in High- and Low-Flaring Active Regions
Richard **Grimes** & Balázs Pintér
Solar Physics volume 297, Article number: 109 (**2022**)
https://link.springer.com/content/pdf/10.1007/s11207-022-02040-2.pdf

Modeling the Observed Distortion of Multiple (Ghost) CME Fronts in STEREO Heliospheric Imagers
Yutian **Chi**1,2,3, Christopher Scott2, Chenglong Shen1,3, Luke Barnard2, Mathew Owens2, Mengjiao Xu1, Jie Zhang4, Shannon Jones2, Zhihui Zhong1, Bingkun Yu1,2Show full author list
2021 ApJL 917 L16
https://iopscience.iop.org/article/10.3847/2041-8213/ac1203/pdf
https://doi.org/10.3847/2041-8213/ac1203

Using the "Ghost Front" to Predict the Arrival Time and Speed of CMEs at Venus and Earth
Yutian **Chi**1,2,3, Christopher Scott2, Chenglong Shen1,3, Mathew Owens2, Matthew Lang2, Mengjiao Xu1, Zhihui Zhong1, Jie Zhang4, Yuming Wang1, and Mike Lockwood2
2020 ApJ 899 143
https://doi.org/10.3847/1538-4357/aba95a
https://iopscience.iop.org/article/10.3847/1538-4357/aba95a/pdf

Investigation of pre-flare dynamics using the weighted horizontal magnetic gradient method: From small to major flare classes
Marianna B. **Korsos**, Shuhong Yang, Robert Erdelyi
Journal of Space Weather and Space Climate **2019**
https://arxiv.org/pdf/1901.05984.pdf

Interplanetary and Geomagnetic Consequences of Interacting CMEs of 13-14 June 2012
Nandita **Srivastava**, Wageesh Mishra, D. Chakrabarty
Solar Phys. **2017**
https://arxiv.org/pdf/1712.08408.pdf

Assessing the collision nature of coronal mass ejections in the inner heliosphere
Wageesh **Mishra**, Yuming Wang, Nandita Srivastava, Chenglong Shen
ApJ Supplement Series **2017**
https://arxiv.org/pdf/1707.08299.pdf

14 June - A very long duration M1.9 event in region 11504 peaked at 14.35 UTC. Homology with the 13th eruption. A large CME was observed in STEREO imagery. The fast-moving (1360 km/s) cloud is expected to sweep up a previous CME

Investigating pre-eruptive magnetic properties at the footprints of erupting magnetic flux ropes
Wensi **Wang**, Jiong Qiu, Rui Liu, Chunming Zhu, Kai E Yang, Qiang Hu, Yuming Wang
ApJ **2022**
https://arxiv.org/pdf/2211.15909.pdf

A magnetic cloud prediction model for forecasting space weather relevant properties of Earth-directed coronal mass ejections
Sanchita **Pal**, Dibyendu Nandy, Emilia K J Kilpua
A&A **2022**
https://arxiv.org/pdf/2203.05231.pdf

Arrival Time Estimates of Earth-Directed CME-Driven Shocks
K. **Suresh**, N. Gopalswamy & A. Shanmugaraju
Solar Physics volume 297, Article number: 3 (**2022**)
https://doi.org/10.1007/s11207-021-01914-1
https://link.springer.com/content/pdf/10.1007/s11207-021-01914-1.pdf

Modeling the Observed Distortion of Multiple (Ghost) CME Fronts in STEREO Heliospheric Imagers
Yutian **Chi**1,2,3, Christopher Scott2, Chenglong Shen1,3, Luke Barnard2, Mathew Owens2, Mengjiao Xu1, Jie Zhang4, Shannon Jones2, Zhihui Zhong1, Bingkun Yu1,2Show full author list
2021 ApJL 917 L16
https://iopscience.iop.org/article/10.3847/2041-8213/ac1203/pdf
https://doi.org/10.3847/2041-8213/ac1203

Space weather: the solar perspective -- an update to Schwenn (2006) **Review**
Manuela **Temmer**
Living Reviews in Solar Physics **2021**
https://arxiv.org/pdf/2104.04261.pdf

Moving solar radio bursts and their association with coronal mass ejections
D. E. **Morosan**, A. Kumari, E. K. J. Kilpua, A. Hamini
A&A **2021**
https://arxiv.org/pdf/2103.05942.pdf

An Observational Revisit of Stationary Type IV Solar Radio Bursts
Maoshui **Lv**, Yao Chen, V. Vasanth, Mohd Shazwan Radzi, Zamri Zainal Abidin & Christian Monstein
Solar Physics volume 296, Article number: 38 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01769-6.pdf

A new trigger mechanism for coronal mass ejections: the role of confined flares and photospheric motions in the formation of hot flux ropes
Alexander W **James**, Lucie M Green, Lidia van Driel-Gesztelyi, Gherardo Valori
A&A **2020**
https://arxiv.org/pdf/2010.11204.pdf

Polarisation and source structure of solar stationary type IV radio bursts⋆
Carolina **Salas-Matamoros**1 and Karl-Ludwig Klein
A&A 639, A102 (**2020**)
https://www.aanda.org/articles/aa/pdf/2020/07/aa37989-20.pdf

The Nature and Origin of Moving Solar Radio Bursts Associated with Coronal Mass Ejections

Diana **Morosan**, Emilia Kilpua, Erika Palmerio, Benjamin Lynch, Jens Pomoell, Rami Vainio, Minna Palmroth, Juska Räsänen
EGU2020 Presentation #5379 **File**

A New Space Weather Tool for Identifying Eruptive Active Regions
P. **Pagano**, D. H. Mackay, S. L. Yardley
ApJ **2019**
https://arxiv.org/pdf/1910.04226.pdf

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation
Nishtha **Sachdeva**
Ph.D. Thesis **2019**
https://arxiv.org/pdf/1907.12673.pdf

Observation-based modelling of magnetised Coronal Mass Ejections with EUHFORIA
Camilla **Scolini**, Luciano Rodriguez, Marilena Mierla, Jens Pomoell, Stefaan Poedts
A&A **2019**
https://arxiv.org/pdf/1904.07059.pdf

Time-dependent Data-driven Modeling of Active Region Evolution Using Energy-optimized Photospheric Electric Fields
Jens **Pomoell**, Erkka Lumme, Emilia Kilpua
Solar Physics April **2019**, 294:41
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1430-x.pdf

Evolution of A Magnetic Flux Rope toward Eruption
Wensi **Wang**, Chunming Zhu, Jiong Qiu, Rui Liu, Kai E. Yang, Qiang Hu
ApJ **2018**
https://arxiv.org/pdf/1812.03437.pdf

Solar sources of interplanetary magnetic clouds leading to helicity prediction
Roger K. **Ulrich**, Pete Riley, T. Tran
Space Weather **2018**
https://arxiv.org/ftp/arxiv/papers/1811/1811.03560.pdf

Statistics of coronal dimmings associated with coronal mass ejections.
II. Relationship between coronal dimmings and their associated CMEs
Karin **Dissauer**, Astrid M. Veronig, Manuela Temmer, Tatiana Podladchikova
ApJ **2018**
https://arxiv.org/pdf/1810.01589.pdf

Dependence of coronal mass ejection properties on their solar source active region characteristics and associated flare reconnection flux
Sanchita **Pal**, Dibyendu Nandy, Nandita Srivastava, Nat Gopalswamy, Suman Panda
2018
https://arxiv.org/pdf/1808.04144.pdf

Onboard Automated CME Detection Algorithm for Visible Emission Line Coronagraph on ADITYA-L1
Ritesh **Patel**, K Amareswari, Vaibhav Pant, Dipankar Banerjee, Sankarasubramanian K, Amit Kumar
Solar Phys. **2018**
https://arxiv.org/pdf/1806.07932.pdf

An Observationally-Constrained Model of a Flux Rope that Formed in the Solar Corona
Alexander W. **James**, Gherardo Valori, Lucie M. Green, Yang Liu, Mark C. M. Cheung, Yang Guo,Lidia van Driel-Gesztelyi

ApJ 2018
https://arxiv.org/pdf/1802.07965.pdf

On-disc Observations of Flux Rope Formation Prior to its Eruption
A. W. **James**, L. M. Green, E. Palmerio, G. Valori, H. A. S. Reid, D. Baker, D. H. Brooks, L. van Driel-Gesztelyi, E. K. J. Kilpua
Solar Phys. **2017**
https://arxiv.org/pdf/1703.10837.pdf

Predicting the magnetic vectors within coronal mass ejections arriving at Earth: 2. Geomagnetic response
N. P. **Savani**, A. Vourlidas, I. G. Richardson, A. Szabo, B. J. Thompson, A. Pulkkinen, M. L. Mays, T. Nieves-Chinchilla, V. Bothmer
Space Weather Volume 15, Issue 2 February **2017** Pages 441–461 DOI: 10.1002/2016SW001458
http://onlinelibrary.wiley.com/doi/10.1002/2016SW001458/full
http://sci-hub.cc/10.1002/2016SW001458

Determining the Intrinsic CME Flux Rope Type Using Remote-sensing Solar Disk Observations
E. **Palmerio**, E. K. J. Kilpua, A. W. James, L. M. Green, J. Pomoell, A. Isavnin, G. Valori
Solar Physics February **2017**, 292:39

Determining the Intrinsic CME Flux Rope Type Using Remote-sensing Solar Disk Observations
E. **Palmerio**, E. K. J. Kilpua, A. W. James, L. M. Green, J. Pomoell, A. Isavnin, G. Valori
Solar Physics February **2017**, 292:39

Predicting the magnetic vectors within coronal mass ejections arriving at Earth: 2. Geomagnetic response: BZ VALIDATION
N. P. **Savani**,1,2 A. Vourlidas,3 I. G. Richardson,4,2 A. Szabo,2 B. J.Thompson,2 A. Pulkkinen,2 M. L. Mays,5,2 T. Nieves-Chinchilla,5,2 V.Bothmer6
Space Weather **2016**

Prediction of Geomagnetic Storm Strength from Inner Heliospheric In Situ Observations
M. **Kubicka**, C. Möstl, T. Amerstorfer, P. D. Boakes, L. Feng, J. P. Eastwood, O. Tormanen **2016**
https://arxiv.org/pdf/1610.06713v1.pdf

Prediction of Solar Flares Using Unique Signatures of Magnetic Field Images
Abbas **Raboonik**, Hossein Safari, Nasibe Alipour, Michael S. Wheatland
ApJ **2016**
https://arxiv.org/abs/1610.03222

The Storm of Decameter Spikes During the Event of 14 June 2012
N. V. **Shevchuk** , V. N. Melnik, S. Poedts, V. V. Dorovskyy, J. Magdalenic, A. A. Konovalenko,A. I. Bra zhenk, C. Briand, A. V. Frantsuzenko and 2 more
Solar Phys. **201**5

Predicting the magnetic vectors within coronal mass ejections arriving at Earth 1. Initial architecture
Savani, N. P.; Vourlidas, A.; Szabo, A.; Mays, M. L.; Thompson, B. J.; Richardson, I. G.; Evans, R.; Pulkkinen, A.; Nieves-Chinchilla, T.
Space Weather , Volume 13, Issue 6 June **2015** Pages 374–385,
http://arxiv.org/pdf/1502.02067v1.pdf File
http://onlinelibrary.wiley.com/doi/10.1002/2015SW001171/full

Multi-channel Observations of Plasma Outflows and the Associated Small-Scale Magnetic Field Cacellations on the Edges of an Active Region
S. **Liu**, J.T. Su
Ap&SS **2014**
http://arxiv.org/pdf/1405.3648v1.pdf

Connecting speeds, directions and arrival times of 22 coronal mass ejections from the Sun to 1 AU
C. **Möstl**, K. Amla, J. R. Hall, P. C. Liewer, E. M. De Jong, R. C. Colaninno, A. M. Veronig, T. Rollett, M. Temmer, V. Peinhart, J. A. Davies, N. Lugaz, Y. D. Liu, C.J. Farrugia, J. G. Luhmann, B. Vršnak, R. A. Harrison, A. B. Galvin
ApJ, **2014**
http://arxiv.org/pdf/1404.3579v1.pdf

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES
M. **Ackermann**2, M. Ajello3, A. Albert4, A. Allafort5,1, L. Baldini6, G. Barbiellini7,8, D. Bastieri et al. **Fermi-LAT collaboration**
E-print, April **2013, File**; ApJ

SIMULTANEOUS OBSERVATION OF SOLAR OSCILLATIONS ASSOCIATED WITH CORONAL LOOPS FROM THE PHOTOSPHERE TO THE CORONA
J. T. **Su**1, Y. Liu2, S. Liu1, Y. Z. Zhang1, H. Zhao1, H. Q. Xu1, and W. B. Xie
2013 ApJ 762 42

14-17 June

Multipoint Observations of the June 2012 Interacting Interplanetary Flux Ropes
Emilia K. J. **Kilpua** , Simon W. Good , Erika Palmerio , Eleanna Asvestari , Erkka Lumme, Matti Ala-Lahti, Milla M. H. Kalliokoski , Diana E. Morosan, Jens Pomoell, Daniel J. Price , Jasmina
Front. Astron. Space Sci. **2019**
sci-hub.se/10.3389/fspas.2019.00050
https://www.frontiersin.org/articles/10.3389/fspas.2019.00050/full

Coronal Magnetic Structure of Earthbound CMEs and In situ Comparison
Erika **Palmerio**, Emilia K. J. Kilpua, Christian Möstl, Volker Bothmer, Alexander W. James, Lucie M. Green, Alexey Isavnin, Jackie A. Davies, Richard A. Harrison
Space Weather **2018**
https://arxiv.org/pdf/1803.04769.pdf **File**

15 June
Predicting the Time-of-Arrival of Coronal Mass Ejections at Earth From Heliospheric Imaging Observations
Carlos Roberto **Braga**, Angelos Vourlidas, Guillermo Stenborg, Alisson Dal Lago, Rafael Rodrigues Souza de Mendonça, Ezequiel Echer
JGR **2020**
https://arxiv.org/pdf/2008.09005.pdf

16 June
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Origination of Extremely Intense South Component of Magnetic Field (B_s) in the ICME
Chenglong **Shen**, Yutian Chi, Mengjiao Xu, and Yuming Wang

Front. Phys., **2021** |
https://www.frontiersin.org/articles/10.3389/fphy.2021.762488/full
https://doi.org/10.3389/fphy.2021.762488

The radial speed-expansion speed relation for Earth-directed CMEs
P. **Mäkelä**, N. Gopalswamy, S. Yashiro
Space Weather Volume 14, Issue 5 May **2016** Pages 368–378 **File**
http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf

Average spatial distribution of cosmic rays behind the interplanetary shock -Global Muon Detector Network observations-
M. **Kozai**, K. Munakata, C. Kato, T. Kuwabara, M. Rockenbach, A. Dal Lago, N. J. Schuch, C. R. Braga, R. R. S. Mendonça, H. K. Al Jassar, M. M. Sharma, M. L. Duldig, J. E. Humble, P. Evenson, I. Sabbah, M. Tokumaru
ApJ **2016**
http://arxiv.org/pdf/1605.06591v1.pdf

16-18 June – Сложная геомагнитная буря от предшествующих эрупций с сильным предвестником (возрастанием) и Dst ~- 80 nT, а также серьезный форбуш.

Validation and interpretation of three-dimensional configuration of a magnetic cloud flux rope
Qiang **Hu**, Chunming Zhu, Wen He, Jiong Qiu, Lan K. Jian, Avijeet Prasad
ApJ **2022**
https://arxiv.org/pdf/2204.03457

Multipoint Observations of the June 2012 Interacting Interplanetary Flux Ropes
Emilia K. J. **Kilpua** , Simon W. Good , Erika Palmerio , Eleanna Asvestari , Erkka Lumme, Matti Ala-Lahti, Milla M. H. Kalliokoski , Diana E. Morosan, Jens Pomoell, Daniel J. Price , Jasmina
Front. Astron. Space Sci. **2019**
sci-hub.se/10.3389/fspas.2019.00050
https://www.frontiersin.org/articles/10.3389/fspas.2019.00050/full

Predicting the magnetic vectors within coronal mass ejections arriving at Earth
Savani, N. P.; Vourlidas, A.; Szabo, A.; Mays, M. L.; Thompson, B. J.; Richardson, I. G.; Evans, R.; Pulkkinen, A.; Nieves-Chinchilla, T.
Space Weather Journal , Jan **2015, File**
http://arxiv.org/pdf/1502.02067v1.pdf

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

17 June

A partial filament eruption in three steps induced by external magnetic reconnection
Jun **Dai**, Zhentong Li, Ya Wang, Zhe Xu, Yanjie Zhang, Leping Li, Qingmin Zhang, Yingna Su, Haisheng Ji
2022
https://arxiv.org/ftp/arxiv/papers/2201/2201.11314.pdf

A Database of Flare Ribbon Properties From Solar Dynamics Observatory I: Reconnection Flux
Maria D. **Kazachenko**, Benjamin J. Lynch, Brian T. Welsch, Xudong Sun
ApJ **2017**
https://arxiv.org/pdf/1704.05097.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

A Flare Observed in Coronal, Transition Region and Helium I 10830 ? Emissions
Zhicheng **Zeng**, Jiong Qiu, Wenda Cao, Philip G. Judge
2014
http://arxiv.org/pdf/1408.0236v1.pdf

17-18 June
Study of Failed CME Core Associated with Asymmetric Filament Eruption
Joshi, N. C.; Srivastava, A. K.; Filippov, B.; Uddin, W.; Kayshap, P.; Chandra, R.
E-print, April **2013**, ApJ 771 65
http://arxiv.org/abs/1304.6852

20 June
Investigating the differential emission measure and energetics of microflares with combined SDO/AIA and RHESSI observations
A. R. **Inglis**, S. Christe
2014, ApJ
http://arxiv.org/pdf/1405.5262v1.pdf

21 June

Multiwavelength High-resolution Observations of Chromospheric Swirls in the Quiet Sun
Juie **Shetye**1, Erwin Verwichte1, Marco Stangalini2,3, Philip G. Judge4, J. G. Doyle5, Tony Arber1, Eamon Scullion6, and Sven Wedemeyer7,8
2019 ApJ 881 83
https://iopscience.iop.org/article/10.3847/1538-4357/ab2bf9/pdf

Spatially resolved signatures of bi-directional flows observed in inverted-Y shaped jets
C. J. **Nelson**, N. Freij, S. Bennett, R. Erdélyi, M. Mathioudakis
ApJ **2019**
https://arxiv.org/pdf/1908.05132.pdf

Signatures of quiet Sun reconnection events in Ca II, Hα, and Fe I
J **Shetye** S Shelyag A L Reid E Scullion J G Doyle T D Arber
Monthly Notices of the Royal Astronomical Society, Volume 479, Issue 3, 21 September **2018**, Pages 3274–3287
http://sci-hub.tw/10.1093/mnras/sty1548

Vortex Flows in the Solar Atmoshpere: Automated Identification and Statistical Analysis
Ioannis **Giagkiozis**, Viktor Fedun, Eamon Scullion, Gary Verth
2018 ApJ 869 169
https://arxiv.org/pdf/1706.05428.pdf
http://iopscience.iop.org/article/10.3847/1538-4357/aaf797/pdf

Small-Scale Structuring Of Ellerman Bombs at Solar Limb

C. J. **Nelson**, E. M. Scullion, J. G. Doyle, N. Freij, R. Erdélyi
ApJ, **2014**
http://arxiv.org/pdf/1410.5715v1.pdf

ARE GIANT TORNADOES THE LEGS OF SOLAR PROMINENCES?
Sven **Wedemeyer**1, Eamon Scullion1, Luc Rouppe van der Voort1, Antonija Bosnjak1, and Patrick Antolin
2013 ApJ 774 123
http://arxiv.org/abs/1306.2661

21 June – July 2012
Chromospheric Synoptic Maps of Polar Crown Filaments
Andrea **Diercke**, Carsten Denker
Solar Phys. 294:152 **2019**
https://arxiv.org/pdf/1910.07943.pdf
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1538-z.pdf

23 June - long duration C2 event peaking at 07:50 had its origin in a large filament eruption (impressive in STEREO-A imagery) behind the NW limb. STEREO-A – на диске, хорошая корональная волна.

Difference of source regions between fast and slow coronal mass ejections
B. **Filippov**
PASAustralia **2019**
https://arxiv.org/pdf/1904.04060.pdf

Tracking of an electron beam through the solar corona with LOFAR
G. **Mann**1, F. Breitling1, C. Vocks1, H. Aurass1, M. Steinmetz1, ……
A&A 611, A57 (**2018**)
https://www.aanda.org/articles/aa/pdf/2018/03/aa29017-16.pdf
http://sci-hub.tw/https://www.aanda.org/articles/aa/abs/2018/03/aa29017-16/aa29017-16.html

Microwave and EUV Observations of an Erupting Filament and Associated Flare and Coronal Mass Ejections
C. E. **Alissandrakis**, A. A. Kochanov, S. Patsourakos, A. T. Altyntsev, S. V. Lesovoi, N. N. Lesovoya
Publ. Astron. Soc. Japan 65, No SP1, S8 [10 pages] (**2013**)
http://pasj.asj.or.jp/v65/sp1/65S008/65S008.pdf

24 June
Coronal Condensation in Funnel Prominences as Return Flows of the Chromosphere-Corona Mass Cycle
Liu, Wei; Berger, Thomas E.; and Low, B. C.
2014/01, Nature of Prominences and their role in Space Weather, Proceedings of the International Astronomical Union, IAU Symposium, Volume 300, pp. 441-442
http://sun.stanford.edu/~weiliu/research/publications/2013/2014IAUS_Liu_Berger_Low_funnel-prom.pdf

25 June
Statistical Analysis and Catalog of Non-polar Coronal Holes Covering the SDO-Era Using CATCH
Stephan G. **Heinemann**, Temmer Manuela, Heinemann Niko, Dissauer Karin, Samara Evangelia, Jerčić Veronika, Stefan J. Hofmeister, Astrid M Veronig
Solar Phys. 294:144 **2019**
https://arxiv.org/pdf/1907.01990.pdf **File**
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1539-y.pdf

26 June – 13:16: C1.3 вспышка, **пересвет** на STEREO-B, B=8*2/300=0,053

26 June – 8 July

Achieving Consistent Doppler Measurements from SDO/HMI Vector Field Inversions
P. W. **Schuck**, Spiro Antiochos, K.D. Leka, Graham Barnes
ApJ **201**5
http://arxiv.org/pdf/1511.06500v1.pdf

27 June – 05:36: C3.4 вспышка, **пересвет** на STEREO-B, B=5,5*2/300=0,037
12:36: C3.4 вспышка, **пересвет** на STEREO-B, B=7,5*2/300=0,05

27 June

Eruptive Solar Prominence at 37 GHz
J. **Kallunki**, M. Tornikoski
Solar Physics July **2017**, 292:84

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. II. THE CASE FOR ABSENT FILAMENTS
T. A. **Howard**1, C. E. DeForest1, U. G. Schneck2, and C. R. Alden
2017 ApJ 834 86 DOI 10.3847/1538-4357/834/1/86
http://c.brightcove.com/article/10.3847/1538-4357/834/1/86/pdf
http://iopscience.iop.org.sci-hub.cc/0004-637X/834/1/86/

Coronal Condensation in Funnel Prominences as Return Flows of the Chromosphere-Corona Mass Cycle
Liu, Wei; Berger, Thomas E.; and Low, B. C.
2014/01, Nature of Prominences and their role in Space Weather, Proceedings of the International Astronomical Union, IAU Symposium, Volume 300, pp. 441-442
http://sun.stanford.edu/~weiliu/research/publications/2013/2014IAUS_Liu_Berger_Low_funnel-prom.pdf

28 June – 16:16: M2.4 **пересвет** B=37*2/297=0,25 ←16s 8s→ **16:11** 20*2/297= 0,1346

28 June – very impulsive M2.4/1B flare at 16:12

29 June – 01:26: C6.7 вспышка, **пересвет** на STEREO-B, B=8*2/298=0,054
06:51: C6.2 вспышка, **пересвет** на STEREO-B, B=5*2/298=0,034
09:21: M2.2 вспышка, **пересвет** на STEREO-B, B=17*2/298=0,11

29 June

Small-scale Flux Emergence, Coronal Hole Heating, and Flux-tube Expansion: A Hybrid Solar Wind Model
Y.-M. **Wang**
2020 ApJ 904 199
https://doi.org/10.3847/1538-4357/abbda6
https://arxiv.org/ftp/arxiv/papers/2104/2104.04016.pdf

Solar flare accelerated electrons from high and low radio frequencies
Hamish **Reid**∗†1 and Larisa Kashapova2
CESRA **2016** p.78
http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v3.pdf

Coronal Condensation in Funnel Prominences as Return Flows of the Chromosphere-Corona Mass Cycle
Liu, Wei; Berger, Thomas E.; and Low, B. C.

2014/01, Nature of Prominences and their role in Space Weather, Proceedings of the International Astronomical Union, IAU Symposium, Volume 300, pp. 441-442
http://sun.stanford.edu/~weiliu/research/publications/2013/2014IAUS_Liu_Berger_Low_funnel-prom.pdf

29, 30 June – more very impulsive flares

29 June–7 Jul

What Are the Causes of Super Activity of Solar Active Regions?
Suman K. **Dhakal**1 and Jie Zhang1
2024 ApJ 960 36
https://iopscience.iop.org/article/10.3847/1538-4357/ad07d2/pdf

30 June

Bipolar Ephemeral Active Regions, Magnetic Flux Cancellation, and Solar Magnetic Explosions
Ronald L. **Moore**1,2, Navdeep K. Panesar3,4, Alphonse C. Sterling2, and Sanjiv K. Tiwari3,4
2022 ApJ 933 12
https://iopscience.iop.org/article/10.3847/1538-4357/ac6181/pdf

Bipolar Ephemeral Active Regions, Magnetic Flux Cancellation, and Solar Magnetic Explosions
Ronald L. **Moore**, Navdeep K. Panesar, Alphonse C. Sterling, Sanjiv K. Tiwari
ApJ **2022**
https://arxiv.org/ftp/arxiv/papers/2203/2203.13287.pdf

Space weather: the solar perspective -- an update to Schwenn (2006) **Review**
Manuela **Temmer**
Living Reviews in Solar Physics **2021**
https://arxiv.org/pdf/2104.04261.pdf

Earth-affecting Solar Transients: A Review of Progresses in Solar Cycle 24
Jie **Zhang**, Manuela Temmer, Nat Gopalswamy, Olga Malandraki, Nariaki V. Nitta, Spiros Patsourakos, Fang Shen, Bojan Vršnak, Yuming Wang, David Webb, Mihir I. Desai, Karin Dissauer, Nina Dresing, Mateja Dumbović, Xueshang Feng, Stephan G. Heinemann, Monica Laurenza, Noé Lugaz, Bin Zhuang
https://arxiv.org/ftp/arxiv/papers/2012/2012.06116.pdf **File 2021**
2020 **https://arxiv.org/abs/2012.06116**

The Lyman-alpha Emission in Solar Flares. I. a Statistical Study on Its Relationship with the 1--8 Å Soft X-ray Emission
Zhichen **Jing**, Wuqi Pan, Yukun Yang, Dechao Song, Jun Tian, Y. Li, X. Cheng, Jie Hong, M. D. Ding
ApJ **2020**
https://arxiv.org/pdf/2009.10358.pdf

Coronal-Jet-Producing Minifilament Eruptions as a Possible Source of Parker Solar Probe (PSP) Switchbacks
Alphonse C. **Sterling**, Ronald L. Moore
ApJ **2020**
https://arxiv.org/pdf/2006.04990.pdf

On Solar Recurrent Coronal Jets: Coronal Geysers as Sources of Electron Beams and Interplanetary Type-III Radio Bursts
Alin Razvan **Paraschiv** and Alina Donea
2019 ApJ 873 110

https://doi.org/10.3847/1538-4357/ab04a6
https://arxiv.org/pdf/1903.04682.pdf

MINIFILAMENT ERUPTIONS THAT DRIVE CORONAL JETS IN A SOLAR ACTIVE REGION
Alphonse C. **Sterling**1, Ronald L. Moore1,2, David A. Falconer1,2, Navdeep K. Panesar1,2,Sachiko Akiyama3,4, Seiji Yashiro3,4, and Nat Gopalswamy
2016 ApJ 821 100
https://iopscience.iop.org/article/10.3847/0004-637X/821/2/100/pdf

30 June-4 July

Evolution of Magnetic Helicity and Energy Spectra of Solar Active Regions
Hongqi **Zhang**, Axel Brandenburg, D.D. Sokoloff
2015
http://arxiv.org/pdf/1503.00846v1.pdf

July 2012

Solar Energetic Particle-Associated Coronal Mass Ejections Observed by the Mauna Loa Solar Observatory Mk3 and Mk4 Coronameters
I. G. **Richardson** , O. C. St Cyr, J. T. Burkepile , H. Xie , B. J. Thompson
Solar Phys. **2023**
https://arxiv.org/pdf/2308.10826.pdf

Shock Connectivity in the August 2010 and July 2012 Solar Energetic Particle Events Inferred from Observations and ENLIL Modeling
H. M. **Bain**, M. L. Mays, J. G. Luhmann, Y. Li, L. K. Jian, and D. Odstrcil
2016 ApJ 825 1

Dynamics of Microwave Sources Associated with the Neutral Line and the Magnetic-Field Parameters of Sunspots as a Factor in Predicting Large Flares
V. E. **Abramov-Maximov**, V. N. Borovik, L. V. Opeikina, A. G. Tlatov
Solar Phys., **2014**

1 July

Bipolar Ephemeral Active Regions, Magnetic Flux Cancellation, and Solar Magnetic Explosions
Ronald L. **Moore**1,2, Navdeep K. Panesar3,4, Alphonse C. Sterling2, and Sanjiv K. Tiwari3,4
2022 ApJ 933 12
https://iopscience.iop.org/article/10.3847/1538-4357/ac6181/pdf
https://arxiv.org/ftp/arxiv/papers/2203/2203.13287.pdf

What Causes Faint Solar Coronal Jets from Emerging Flux Regions in Coronal Holes?
Abigail R. **Harden**, Navdeep K. Panesar, Ronald L. Moore, Alphonse C. Sterling, Mitzi L. Adams
ApJ **2021**
https://arxiv.org/pdf/2103.07813.pdf

Homologous flaring activity over a sunspot light bridge in an emerging active region
Rohan E. **Louis**, Julia K. Thalmann
ApJL **2020**
https://arxiv.org/pdf/2012.07454.pdf

Magnetic Flux Cancelation as the Origin of Solar Quiet Region Pre-Jet Minifilaments

Navdeep K. **Panesar**, Alphonse C. Sterling, Ronald L. Moore
ApJ **2017**
https://arxiv.org/pdf/1706.09079.pdf

Investigation of recurrent EUV jets from highly dynamic magnetic field region
Navin **Chandra** , Ramesh Chandra, Yang Guo,Tetsuya Magara, Ivan Zhelyazkov,Young-Jae Moon, Wahab Uddin
Astrophysics and Space Science January **2017**, 362:10

Observing the formation of flare-driven coronal rain
E. **Scullion**, L. Rouppe Van Der Voort, P. Antolin, S. Wedemeyer, G. Vissers, E. P. Kontar, P. Gallagher **2016**
https://arxiv.org/pdf/1610.09255v1.pdf

Cluster of solar active regions and onset of coronal mass ejections.
Wang J X, Zhang Y Z, He H, et al.
SCIENCE CHINA Physics, Mechanics & Astronomy (Sci China-Phys Mech Astron), **2015**, 58(9): 599601 **File**
http://link.springer.com/journal/11433/58/9/page/1
http://phys.scichina.com:8083/sciGe/EN/article/showFieldArticle.do?fieldId=81

Triggering an eruptive flare by emerging flux in a solar active-region complex
Louis, Rohan E.; Kliem, Bernhard; Ravindra, B.; Chintzoglou, Georgios
Solar Phys. **2015**
http://arxiv.org/pdf/1506.08035v1.pdf

1, 2 July - more very impulsive flares, including M5.6 flare on 2 July. Кроме того, залимбовая активность (STEREO-B)
AR 11513 - Flares: M1.1/1N at 00:35, C4.5/1F at 18:12, C6.5/1F at 23:39 UTC as well as several smaller C class events.
AR 11515 - Flares: C3.5 at 05:08 (associated with a weak type II radio sweep), major M5.6/2B at 10:52 (again associated with a weak **type II** radio sweep), M3.8/2B at 20:07, M2.0 at 23:56 UTC + several small C class events.

Are chains of type I radio bursts generated by similar processes as drifting pulsation structures observed during solar flares?
Marian **Karlicky**
A&A **2017**
https://arxiv.org/pdf/1704.08532.pdf

RECURRENT SOLAR JETS INDUCED BY A SATELLITE SPOT AND MOVING MAGNETIC FEATURES
Jie **Chen**1, Jiangtao Su1, Zhiqiang Yin1, T. G. Priya1,2, Hongqi Zhang1, Jihong Liu3, Haiqing Xu1, and Sijie Yu1
2015 ApJ 815 71

Unresolved Fine-scale Structure in Solar Coronal Loop-tops
E. **Scullion**1,2, L. Rouppe van der Voort1, S. Wedemeyer1, and P. Antolin
2014 ApJ 797 36
http://arxiv.org/pdf/1409.1920v1.pdf

1-5 July

Comparative case study of two methods to assess the eruptive potential of selected active regions
Francesca **Zuccarello**1, Ilaria Ermolli, Marianna B. Korsos, Fabrizio Giorgi, Salvo L. Guglielmino, Robertus Erdelyi, Paolo Romano
Research in Astronomy and Astrophysics **2021**
https://arxiv.org/pdf/2110.01272.pdf

Differential Emission Measure Evolution as a Precursor of Solar Flares
C. **Gontikakis** (1), I. Kontogiannis (2), M.K. Georgoulis (1,3), C. Guennou (4), P. Syntelis (5), S.H. Park (6), E. Buchlin
2020
https://arxiv.org/pdf/2011.06433.pdf

2 July M5.6 flare

Full velocities and propagation directions of coronal mass ejections inferred from simultaneous full-disk imaging and Sun-as-a-star spectroscopic observations
Hong-peng Lu, Hui Tian, He-chao Chen, Yu Xu, Zhen-yong Hou, Xian-yong Bai, Guang-yu Tan, Zi-hao Yang, Jie Ren
ApJ 2023
https://arxiv.org/pdf/2305.08765.pdf

Magnetohydrodynamics evolution of three-dimensional magnetic null in NOAA active region 11515 initiated using non-force-free field extrapolation
Sanjay **Kumar**, Avijeet Prasad, Ranadeep Sarkar, and Ramit Bhattacharyya
Front. Astron. Space Sci. 9:1039061. **2022**
https://arxiv.org/pdf/2210.03957.pdf
doi: 10.3389/fspas.2022.1039061
https://www.frontiersin.org/articles/10.3389/fspas.2022.1039061/pdf

Blobs in a Solar EUV Jet
Jie **Chen**, Robertus Erdelyi, Jiajia Liu, Yuanyong Deng, Fionnlagh Dover, Qingmin Zhang, Mei Zhang, Jiangtao Su, and Leping Li
Front. Astron. Space Sci. 8:786856. doi: 10.3389/fspas.2021.786856, **2022**
https://www.frontiersin.org/articles/10.3389/fspas.2021.786856/pdf
https://doi.org/10.3389/fspas.2021.786856

Direct Observation of A Large-scale CME Flux Rope Event Arising from an Unwinding Coronal Jet
Hechao **Chen**, Jiayan Yang, Junchao Hong, Haidong Li, Yadan Duan
ApJ **2021**
https://arxiv.org/pdf/2102.13336.pdf

High Resolution Observations of Solar Flares
Haimin **Wang**
Fleishman's Solar Physics Webinar 18-Sep-**2020**
https://youtu.be/GZWctGWzvTY

Flare-productive active regions **Review**
Shin **Toriumi**, Haimin Wang
Living Reviews in Solar Physics **2019**
https://arxiv.org/pdf/1904.12027.pdf

On Solar Recurrent Coronal Jets: Coronal Geysers as Sources of Electron Beams and Interplanetary Type-III Radio Bursts
Alin Razvan **Paraschiv** and Alina Donea

2019 ApJ 873 110
https://doi.org/10.3847/1538-4357/ab04a6
https://arxiv.org/pdf/1903.04682.pdf

Fourier Power Spectra of Solar Noise Storms
Marian **Karlický**, Ján Rybák, Christian Monstein
Solar Physics October **2018**, 293:143
sci-hub.tw/10.1007/s11207-018-1367-5

Evaluation of Applicability of a Flare Trigger Model based on Comparison of Geometric Structures
Yumi **Bamba**, Kanya Kusano
ApJ **2018**
https://arxiv.org/pdf/1802.00134.pdf

Magnetic Flux Cancelation as the Trigger of Solar Coronal-Hole Coronal Jets
Navdeep K. **Panesar**, Alphonse C. Sterling, Ronald L. Moore
ApJ **2018**
https://arxiv.org/pdf/1801.05344.pdf

Are chains of type I radio bursts generated by similar processes as drifting pulsation structures observed during solar flares?
Marian **Karlicky**
A&A **2017**
https://arxiv.org/pdf/1704.08532.pdf

A Complex Solar Coronal Jet with Two Phases
Jie **Chen**, Jiangtao Su, Yuanyong Deng, E. R. Priest
ApJ **840** 54 **2017**
https://arxiv.org/pdf/1704.02072.pdf
https://iopscience.iop.org/article/10.3847/1538-4357/aa6c59/pdf

A blow out jet caused by the eruption of a magnetic flux rope revealed by forced field extrapolation
Xiaoshuai **Zhu**, Huaning Wang, Xin Cheng, Chong Huang
ApJL **2017**
https://arxiv.org/pdf/1703.08992.pdf

Investigation of recurrent EUV jets from highly dynamic magnetic field region
Navin **Chandra** , Ramesh Chandra, Yang Guo,Tetsuya Magara, Ivan Zhelyazkov,Young-Jae Moon, Wahab Uddin
Astrophysics and Space Science January **2017**, 362:10

Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions
Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
ApJ **2016**
https://arxiv.org/pdf/1611.05047v1.pdf

Observations of solar X-ray and EUV jets and their related phenomena **Review**
Davina **Innes**, Radoslav Bucik, Li-Jia Guo, Nariaka Nitte
Astronomische Nachrichten **2016**
http://arxiv.org/pdf/1603.03258v1.pdf

Microwave Type III Pair Bursts in Solar Flares
Baolin **Tan**, Hana Meszarosova, Marian Karlicky, Guangli Huang, Chengming Tan

ApJ **2016**
http://arxiv.org/pdf/1601.05312v1.pdf

Observations of a Series of Flares and Associated Jet-like Eruptions Driven by the Emergence of Twisted Magnetic Fields
Eun-Kyung **Lim**, Vasyl Yurchyshyn, Sung-Hong Park, Sujin Kim, Kyung-Suk Cho, Pankaj Kumar, Jongchul Chae, Heesu Yang, Kyuhyoun Cho, Donguk Song, Yeon-Han Kim
ApJ **2015**
http://arxiv.org/pdf/1512.01330v1.pdf

Type II and Type III Radio Bursts and their Correlation with Solar Energetic Proton Events
L.M. **Winter**, K. Ledbetter
ApJ **2015**
http://arxiv.org/pdf/1507.01620v1.pdf

Unresolved Fine-scale Structure in Solar Coronal Loop-tops
E. **Scullion**1,2, L. Rouppe van der Voort1, S. Wedemeyer1, and P. Antolin
2014 ApJ 797 36
http://arxiv.org/pdf/1409.1920v1.pdf

Observations of Photospheric Vortical Motions During the Early Stage of Filament Eruption
Sajal Kumar **Dhara**, B. Ravindra, Ravinder Kumar Banyal
Solar Phys. **2014**
http://arxiv.org/pdf/1410.3592v1.pdf

The Relation Between Large-Scale Coronal Propagating Fronts and Type II Radio Bursts
Nariaki V. **Nitta**, Wei Liu, Nat Gopalswamy, Seiji Yashiro
Solar Phys., **2014**
http://www.lmsal.com/nitta/publ/SP_typeII_20140904.pdf
http://arxiv.org/pdf/1409.4754v1.pdf **File**

Evolution of a Magnetic Flux Rope and its Overlying Arcade Based on Nonlinear Force-free Field Extrapolations
Ju **Jing**, Chang Liu, Jeongwoo Lee, Shuo Wang, Thomas Wiegelmann, Yan Xu, and Haimin Wang
ApJ 784 L13, **2014**

Sunspot splitting triggering an eruptive flare
Rohan E. **Louis**, Klaus G. Puschmann, Bernhard Kliem, Horst Balthasar, Carsten Denker
E-print, Nov **2013**; A&A 562, A110 (**2014**)

STUDY OF RAPID FORMATION OF A δ SUNSPOT ASSOCIATED WITH THE 2012 JULY 2 C7.4 FLARE USING HIGH-RESOLUTION OBSERVATIONS OF THE NEW SOLAR TELESCOPE
Haimin **Wang**1, Chang Liu1, Shuo Wang1, Na Deng1, Yan Xu1, Ju Jing1, and Wenda Cao
2013 ApJ 774 L24

3 July

Automatic detection of Interplanetary Coronal Mass Ejections from in-situ data: a deep learning approach
Gautier **Nguyen**, Nicolas Aunai, Dominique Fontaine, Erwan Le Pennec, Joris Van den Bossche, Alexis Jeandet, Brice Bakkali, Louis Vignoli, Bruno Regaldo-Saint Blancar
2019
https://arxiv.org/pdf/1903.10780.pdf

A STEREO Survey of Magnetic Cloud Coronal Mass Ejections Observed at Earth in 2008--2012
Brian E. **Wood**, Chin-Chun Wu, Ronald P. Lepping, Teresa Nieves-Chinchilla, Russell A. Howard, Mark G. Linton, Dennis G. Socker
Astrophysical Journal Supplement **2017 File**
https://arxiv.org/pdf/1701.01682v1.pdf

Systematic variations of macrospicule properties observed by SDO/AIA over half a decade
T. S. **Kiss**, N. Gyenge, R. Erdelyi
2016
https://arxiv.org/pdf/1612.02224v1.pdf

Radio Observation of Solar-Activity-Related mHz Oscillations
N. V. **Hiep**, P. T. Nhung, P. Darriulat, P. N. Diep, P. T. Anh, P. N. Dong, D. T. Hoai, N. T. Thao
Solar Physics, March **2014**, Volume 289, Issue 3, pp 939-950

3-6 July
Observations of white-light flares in NOAA active region 11515: high occurrence rate and relationship with magnetic transients
Y. L. **Song**, H. Tian, M. Zhang, M. D. Ding
A&A **2018**
https://arxiv.org/pdf/1801.04371.pdf

4 July – 16:46: M1.8 вспышка, **пересвет** на STEREO-A, A=16*2/312=0,1
22:16: M4.6 вспышка, **пересвет** на STEREO-A, A=16*2/312=0,1

4 July - a significant increase in the background x-ray level; 16:39 - CME associated with the M1/2n flare from Region 1513

Flare Induced Sunquake Signatures in the Ultraviolet as Observed by the Atmospheric Imaging Assembly
Sean **Quinn**, Mihalis Mathioudakis, Christopher J. Nelson, Ryan O. Milligan, Aaron Reid, David B. Jess
ApJ **2021**
https://arxiv.org/pdf/2105.05704.pdf

The configuration and failed eruption of a complex magnetic flux rope above a δ sunspot region
Lijuan **Liu**, Jiajia Liu, Jun Chen, Yuming Wang, Guoqiang Wang, Zhenjun Zhou, Jun Cui
A&A **2021**
https://arxiv.org/pdf/2102.06005.pdf

A Catalog of Type II Radio Bursts Observed by Wind/WAVES and their Statistical Properties
Nat **Gopalswamy**, Pertti Mäkelä, Seiji Yashiro
Sun and Geosphere **2019**
https://arxiv.org/ftp/arxiv/papers/1912/1912.07370.pdf **File**

Two Types of Solar Confined Flares
Ting **Li**, Lijuan Liu, Yijun Hou, Jun Zhang
ApJS **2019**
https://arxiv.org/pdf/1907.04510.pdf

Frequency rising sub-THz emission from solar flare ribbons
E.P. **Kontar**, G.G. Motorina, N.L.S. Jeffrey, Y.T. Tsap, G.D. Fleishman, A.V. Stepanov

A&A **2018**
https://arxiv.org/pdf/1810.03922.pdf

Database of episode-integrated solar energetic proton fluences
Zachary D. **Robinson**1*, James H. Adams Jr.2, Michael A. Xapsos3 and Craig A. Stauffer
J. Space Weather Space Clim. **2018**, 8, A24
https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170061.pdf

New Probabilistic Model For Episode Integrated Fluences of Protons Using Episodes From 1973-2013
Zachary D. **Robinson**
Thesis (2015) **2017**
https://arxiv.org/pdf/1711.04391.pdf

A STEREO Survey of Magnetic Cloud Coronal Mass Ejections Observed at Earth in 2008--2012
Brian E. **Wood**, Chin-Chun Wu, Ronald P. Lepping, Teresa Nieves-Chinchilla, Russell A. Howard, Mark G. Linton, Dennis G. Socker
Astrophysical Journal Supplement **2017 File**
https://arxiv.org/pdf/1701.01682v1.pdf

Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions
Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
ApJ **2016**
https://arxiv.org/pdf/1611.05047v1.pdf

A large-scale search for evidence of quasi-periodic pulsations in solar flares
A. R. **Inglis**, J. Ireland, B. R. Dennis, L. A. Hayes, P. T. Gallagher
ApJ **2016**
https://arxiv.org/pdf/1610.07454v1.pdf

The Energetics of White-light Flares Observed by SDO/HMI and RHESSI
Nengyi **Huang**, Yan Xu, Haimin Wang
Research in Astronomy and Astrophysics **2016**
http://arxiv.org/pdf/1608.06015v1.pdf

On the origin of 140 GHz emission from the 4 July 2012 solar flare
Yuriy T. **Tsap**, Victoria V. Smirnova, Alexander S. Morgachev, Galina G. Motorina, Eduard P. Kontar,Valery G. Nagnibeda, Polina V. Strekalova
Advances in Space Research, V. 57, I. 7, p. 1449-1455 **2016**; DOI: 10.1016/j.asr.2015.12.037
http://arxiv.org/pdf/1604.01530v1.pdf

4-5 July – Forbush от корональной дыры
Thermal plasma diagnostics and the origin of sub-THz solar bursts
Yuriy **Tsap**_y1,2, Galina Motorina_z2, Viktoria Smirnovax2,3, Alexander Morgachev{2,4, Valeriy Nagnibedak5, Sergey Kuznetsov__2,4, and Vladimir Ryzhovyy6
CESRA **2016**, p.101
http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v3.pdf

5 July – 20:16: M1.6 **пересвет** A=26*2/312=0,17 ←16s 8s→ A=26/312=0.083
21:46: M1.6 вспышка, **пересвет** на STEREO-A, A=7,5*2/312=0,05
2012-07-05 Вспышки всего дня (кроме самого конца):
Пересвет не виден на фоне структур. STEREO-A залимб и прилимб.

Enhanced three-minute oscillation above a sunspot during a solar flare
Ya **Wang**, Lyndsay Fletcher, Sargam Mulay, Haisheng Ji, Wenda Cao
ApJ **2023**
https://arxiv.org/pdf/2311.17223.pdf

Quasi-Periodic Energy Release in a Three-Ribbon Solar Flare
Ivan **Zimovets**, Ivan Sharykin & Ivan Myshyakov
Solar Physics volume 296, Article number: 188 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01936-9.pdf
https://doi.org/10.1007/s11207-021-01936-9

High-resolution He I 10830 Å Narrowband Imaging for an M-class Flare. III. EUV Late Phase
Ya **Wang**1,2, Haisheng Ji1,3, Alexander Warmuth4, Ying Li1, and Wenda Cao5
2020 ApJ 905 126
https://doi.org/10.3847/1538-4357/abc47a

The Lyman-alpha Emission in Solar Flares. I. a Statistical Study on Its Relationship with the 1--8 Å Soft X-ray Emission
Zhichen **Jing**, Wuqi Pan, Yukun Yang, Dechao Song, Jun Tian, Y. Li, X. Cheng, Jie Hong, M. D. Ding
ApJ **2020**
https://arxiv.org/pdf/2009.10358.pdf

The Statistical Relationship between White-light Emission and Photospheric Magnetic Field Changes in Flares
J. S. Castellanos **Durán**, L. Kleint
ApJ **2020**
https://arxiv.org/pdf/2007.02954.pdf

Frequency rising sub-THz emission from solar flare ribbons
E.P. **Kontar**, G.G. Motorina, N.L.S. Jeffrey, Y.T. Tsap, G.D. Fleishman, A.V. Stepanov
A&A **2018**
https://arxiv.org/pdf/1810.03922.pdf

High-resolution He i 10830 Å Narrowband Imaging for an M-class Flare. II. Multiple Hot Channels: Their Origin and Destination
Ya **Wang**1,2, Yingna Su1,3, Jinhua Shen4, Xu Yang5, Wenda Cao5, and Haisheng Ji1,3
2018 ApJ 859 148 DOI 10.3847/1538-4357/aac0f7

Millimeter and X-Ray Emission from the 5 July 2012 Solar Flare
Y. T. **Tsap**, V. V. Smirnova, G. G. Motorina, A. S. Morgachev, S. A. Kuznetsov, V. G. Nagnibeda, V. S. Ryzhov
Solar Physics March **2018**, 293:50
http://sci-hub.tw/http://link.springer.com/10.1007/s11207-018-1269-6

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures
Edward M.B. **Thiemann**, Francis G. Eparvier and Thomas N. Woods
J. Space Weather Space Clim. **2017**, 7, A36
https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170050.pdf
https://arxiv.org/pdf/1703.02995.pdf

High-resolution Observation of Downflows at One End of a Pre-eruption Filament
Qin **Li**, Na Deng, Ju Jing, Haimin Wang
2017
https://arxiv.org/pdf/1705.08003.pdf

Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions
Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
ApJ **2016**
https://arxiv.org/pdf/1611.05047v1.pdf

High resolution He I 10830 Å narrow-band imaging of an M-class flare. I - analysis of sunspot dynamics during flaring
Ya **Wang**, Yingna Su, Zhenxiang Hong, Zhicheng Zeng, Kaifan Ji, Philip R. Goode, Wenda Cao, Haisheng Ji
ApJ **2016**
https://arxiv.org/pdf/1610.09227v1.pdf

The Energetics of White-light Flares Observed by SDO/HMI and RHESSI
Nengyi **Huang**, Yan Xu, Haimin Wang
Research in Astronomy and Astrophysics **2016**
http://arxiv.org/pdf/1608.06015v1.pdf

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics
Markus J. **Aschwanden**
ApJ **2016**
http://arxiv.org/pdf/1605.04952v1.pdf **File**
http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

6 July – 01:41: M2.9 вспышка, **пересвет** на STEREO-A, A=23*2/312=0,15
03:01: M1.0 вспышка, **пересвет** на STEREO-A, A=12*2/312=0,08
08:26: M1.5 вспышка, **пересвет** на STEREO-A, A=30*2/312=0,19
10:31: M1.8 вспышка, **пересвет** на STEREO-A, A=20*2/312=0,13
13:31: M1.2 вспышка, **пересвет** на STEREO-A, A=25*2/312=0,16
18:56: M1.3 вспышка, **пересвет** на STEREO-A, A=12*2/312=0,08
23:10: X1.1 вспышка, **пересвет** на STEREO-A, A=66*2/312= 0,42

6 July – 23:05, X1.1 flare (S17W~55), strong hard-spectrum microwaves, coronal wave at STEREO-A, CME, protons Gamma

Strongest coronal magnetic fields in solar cycles 23-24: probing, statistics, and implications
V. V. Fedenev, S. A. Anfinogentov, G. D. Fleishman
ApJ 2023
https://arxiv.org/pdf/2301.08922.pdf

Global energetics of solar flares. XIII. The Neupert effect and acceleration of coronal mass ejections
Markus J. **Aschwanden**
ApJ **2021**
https://arxiv.org/pdf/2112.07759.pdf File

СВЯЗЬ МЕЖДУ ДЛИТЕЛЬНОСТЬЮ И ВЕЛИЧИНОЙ УСКОРЕНИЯ КОРОНАЛЬНЫХ ВЫБРОСОВ МАССЫ
Струминский А. Б., Григорьева И. Ю., Логачев Ю. И., Садовский А. М.
ГЕОМАГНЕТИЗМ И АЭРОНОМИЯ Том: 61Номер: 6 Год: 2021 Страницы: 683-693
DOI: 10.31857/S001679402105014X

High Resolution Observations of Solar Flares
Haimin **Wang**

Fleishman's Solar Physics Webinar 18-Sep-**2020**
https://youtu.be/GZWctGWzvTY

Relationships between Photospheric Vertical Electric Currents and Hard X-Ray Sources in Solar Flares: Statistical Study
I.V. **Zimovets**, I.N. Sharykin, W.Q. Gan
ApJ **2020**
https://arxiv.org/pdf/2002.06646.pdf

Gamma-ray lines in solar flares with proton spectra measured by PAMELA experiment
A L **Lysenko**1, E A Bogomolov1, G I Vasiliev1 and E P Ovchinnikova1
Journal of Physics: Conference Series, Volume 1400, Issue 2 (**2019**) 022042
https://iopscience.iop.org/article/10.1088/1742-6596/1400/2/022042/pdf

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE **Thesis Catalog (2010-2017)**
Allafort, A. J.
(**2018**). PhD thesis, Stanford Univ. **File**
https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

Direction-finding Analysis of the 2012 July 6 Type II Solar Radio Burst at Low Frequencies
Pertti **Mäkelä**1,2, Nat Gopalswamy2, and Sachiko Akiyama
2018 ApJ 867 40
sci-hub.tw/10.3847/1538-4357/aae2b6

Detection of Quasi-Periodic Pulsations in Solar EUV Time Series
M. **Dominique**, A. N. Zhukov, L. Dolla, A. Inglis, G. Lapenta
Solar Physics April **2018**, 293:61
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1281-x.pdf

Relationship between Intensity of White-light Flares and Proton Flux of Solar Energetic Particles
Nengyi **Huang**1,2, Yan Xu1,2, and Haimin Wang
2018 Res. Notes AAS 2 7
http://iopscience.iop.org/article/10.3847/2515-5172/aaa602
https://arxiv.org/pdf/1801.04316.pdf

Observations of white-light flares in NOAA active region 11515: high occurrence rate and relationship with magnetic transients
Y. L. **Song**, H. Tian, M. Zhang, M. D. Ding
A&A **2018**
https://arxiv.org/pdf/1801.04371.pdf

Characteristics of Sustained >100 γ-ray Emission Associated with Solar Flares
G. H. **Share**, R. J. Murphy, A. K. Tolbert, B. R. Dennis, S. M. White, R. A. Schwartz, and A. J. Tylka
ApJ Supplement **2017**
http://www.astro.umd.edu/~share/publications/share_2017.pdf **File**

Flare SOL2012-07-06: On the Origin of the Circular Polarization Reversal Between 17 GHz and 34 GHz
A. **Altyntsev**, N. Meshalkina, I. Myshyakov, V. Pal'shin, G. Fleishman
Solar Physics September **2017**, 292:137

The Abundance of Helium in the Source Plasma of Solar Energetic Particles
Donald V. **Reames**

Solar Phys. **2017**
https://arxiv.org/ftp/arxiv/papers/1708/1708.05034.pdf

Transient Mass Loss Analysis of Solar Observations using Stellar Methods
M. K. **Crosley**, R. A. Osten, C. Norman
2017
https://arxiv.org/pdf/1707.01928.pdf

Measuring the magnetic field of a trans-equatorial loop system using coronal seismology
David M. **Long**, Gherardo Valori, David Pérez-Suárez, Richard J. Morton, Alberto Marcos Vásquez
A&A 2017
https://arxiv.org/pdf/1703.10020.pdf

Improved SOT (Hinode mission) high resolution solar imaging observations
Hadis **Goodarzi**, Serge Koutchmy, Ali Adjabshirizadeh
2015
http://arxiv.org/pdf/1506.08265v1.pdf

Observation of solar high energy gamma and X-ray emission and solar energetic particles
Alexei **Struminsky**, Weiqun Gan
24th European Cosmic Ray Symposium, Kiel, September 2014, **2015**
https://iopscience.iop.org/article/10.1088/1742-6596/632/1/012081/pdf

Moreton Waves and EIT Waves Related to the Flare Events of June 3, 2012 and July 6, 2012
A. G. **Admiranto**, R. Priyatikanto, U. Yus'an, E. Puspitaningrum
International Conference on Mathematics and Natural Sciences **2014**
http://arxiv.org/pdf/1502.04039v1.pdf

Particle Acceleration in Plasmoid Ejections Derived from Radio Drifting Pulsating Structures
N. **Nishizuka**1, M. Karlický2, M. Janvier3, and M. Bárta
2015 ApJ 799 126
http://arxiv.org/pdf/1412.7904v1.pdf

Dynamics of Microwave Sources Associated with the Neutral Line and the Magnetic-Field Parameters of Sunspots as a Factor in Predicting Large Flares
V. E. **Abramov-Maximov**, V. N. Borovik, L. V. Opeikina, A. G. Tlatov
Solar Phys., **2014**

Moreton Waves Related to the Flare Event in 3 June 2012 and 6 July 2012
Agustinus Gunawan **Admiranto**, Rhorom Priyatikanto
Journal of the Korean Astronomical Society (http://jkas.kas.org), **2014**
http://arxiv.org/pdf/1408.6677v1.pdf

Quasi-Periodic Pulsations with Varying Period in Multi-Wavelength Observations of an X-class Flare
Jing **Huang**1, Baolin Tan1, Yin Zhang1, Marian Karlický2, and Hana Mészárosová
2014 ApJ 791 44

Radio Observation of Solar-Activity-Related mHz Oscillations
N. V. **Hiep**, P. T. Nhung, P. Darriulat, P. N. Diep, P. T. Anh, P. N. Dong, D. T. Hoai, N. T. Thao
Solar Physics, March **2014**, Volume 289, Issue 3, pp 939-950

Study of Two Successive Three-Ribbon Solar Flares on 2012 July 6

Haimin **Wang**, Chang Liu, Na Deng, Zhicheng Zeng, Yan Xu, Ju Jing and Wenda Cao
E-print, Dec **2013**; ApJL
http://arxiv.org/pdf/1312.6649v1.pdf

Solar Flare Impulsive Phase Emission Observed with SDO/EVE
Michael B. **Kennedy**1, Ryan O. Milligan1,2,3, Mihalis Mathioudakis1, and Francis P. Keenan
2013 ApJ 779 84
http://arxiv.org/abs/1310.4649

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES
M. **Ackermann**2, M. Ajello3, A. Albert4, A. Allafort5,1, L. Baldini6, G. Barbiellini7,8, D. Bastieri et al.
Fermi-LAT collaboration
E-print, April **2013, File**; ApJ

THE FIRST GROUND LEVEL ENHANCEMENT EVENT OF SOLAR CYCLE 24: DIRECT OBSERVATION OF SHOCK FORMATION AND PARTICLE RELEASE HEIGHTS
N. **Gopalswamy**1, H. Xie1,2, S. Akiyama1,2, S. Yashiro1,2, I. G. Usoskin3, and J. M. Davila
2013 ApJ 765 L30, preprint **File**

7 July – 03:26: M1.2 вспышка, **пересвет** на STEREO-A, A=25*2/313=0.16
04:31: C6.7 вспышка, **пересвет** на STEREO-A, A=8*2/313=0.051
08:36: M1.0 вспышка, **пересвет** на STEREO-B, B=0,032
11:06: M2.6 вспышка, **пересвет** на STEREO-A, A=22*2/313=0.14
14:36: C3.0 вспышка, **пересвет** на STEREO-A, A=6,5*2/313=0.042

7 July Sustained Gamma-

Cold Solar Flares. I. Microwave Domain
Alexandra L. **Lysenko**1, Stephen M. White2, Dmitry A. Zhdanov3, Nataliia S. Meshalkina3, Aleksander T. Altyntsev3, Galina G. Motorina1,4,5, and Gregory D. Fleishman6,7
2023 ApJ 954 122
https://iopscience.iop.org/article/10.3847/1538-4357/acea20/pdf

The Common Origin of High-energy Protons in Solar Energetic Particle Events and Sustained Gamma-ray Emission from the Sun
N. **Gopalswamy**, S. Yashiro, P. Makela, H. Xie, S. Akiyama
ApJ **2021**
https://arxiv.org/ftp/arxiv/papers/2105/2105.01206.pdf

Interplanetary Radio Emission: A Summary of Recent Results **Review**
Nat **Gopalswamy**
Journal of Computational and Interdisciplinary Science **2020**
https://arxiv.org/ftp/arxiv/papers/2008/2008.09222.pdf **File**

Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles
G. A. **de Nolfo**, A. Bruno, J. M. Ryan, S. Dalla, J. Giacalone, I. G. Richardson, E. R. Christian, S. J. Stochaj, G. A. Bazilevskaya, M. Boezio, M. Martucci, V. V. Mikhailov, R. Munini
ApJ **2019**
https://arxiv.org/pdf/1905.12878.pdf **File**

Extreme Kinematics of the 2017 September 10 Solar Eruption and the Spectral Characteristics of the Associated Energetic Particles
N. **Gopalswamy**, S. Yashiro, P. Makela, H. Xie, S. Akiyama, C. Monstein

ApJL **2018**
https://arxiv.org/ftp/arxiv/papers/1807/1807.09906.pdf

Exploring the potential of microwave diagnostics in SEP forecasting: The occurrence of SEP events
Pietro **Zucca**, Marlon Núñez and Karl-Ludwig Klein
J. Space Weather Space Clim., 7, A13 (**2017**)
https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170001.pdf

Origin and Structures of Solar Eruptions I: Magnetic Flux Rope (Invited Review)
X. **Cheng**, Y. Guo, M. D. Ding
SCIENCE CHINA Earth Sciences **2017 File**
https://arxiv.org/pdf/1705.08198.pdf

Identification of Low Coronal Sources of "Stealth" Coronal Mass Ejections Using New Image Processing Techniques
Nathalia **Alzate** and Huw Morgan
2017 ApJ 840 103
https://iopscience.iop.org/article/10.3847/1538-4357/aa6caa/pdf

Solar Activity from 2006 to 2014 and Short-term Forecasts of Solar Proton Events Using the ESPERTA Model
T. **Alberti**1, M. Laurenza2, E. W. Cliver3, M. Storini2, G. Consolini2, and F. Lepreti
2017 ApJ 838 59 **File**
http://sci-hub.cc/10.3847/1538-4357/aa5cb8

Dynamic SEP event probability forecasts
S. W. **Kahler** and A. Ling
Space Weather Volume 13, Issue 10 (pages 665–675) **2015** DOI: 10.1002/2015SW001222

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

8 July – 05:46: M1.2 вспышка, **пересвет** на STEREO-A, A=15*2/313=0,1
10:51: M1.1 вспышка, **пересвет** на STEREO-A, A=14*2/313=0,09
12:11: M1.4 вспышка, **пересвет** на STEREO-A, A=18*2/313=0,12
16:30: M6.9 вспышка, **пересвет** на STEREO-A, A=50*2/313= 0,32

8 July – 16:27, M6.9 flare (S17W74), trans-equatorial eruption followed by a 304 A large south filament eruption, coronal wave at STEREO-A, CME, protons; similar to the 6 July event

http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

An Observational Revisit of Stationary Type IV Solar Radio Bursts
Maoshui **Lv**, Yao Chen, V. Vasanth, Mohd Shazwan Radzi, Zamri Zainal Abidin & Christian Monstein
Solar Physics volume 296, Article number: 38 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01769-6.pdf

Fourier Power Spectra of Solar Noise Storms
Marian **Karlický**, Ján Rybák, Christian Monstein
Solar Physics October **2018**, 293:143
sci-hub.tw/10.1007/s11207-018-1367-5

Statistics of "Cold" Early Impulsive Solar Flares in X-ray and Microwave domains
Alexandra L. **Lysenko**, Alexander T. Altyntsev, Natalia S. Meshalkina, Dmitriy Zhdanov, Gregory D. Fleishman
2018
https://arxiv.org/pdf/1802.09288.pdf

Resolving the Fan-Spine Reconnection Geometry of a Small-Scale Chromospheric Jet Event with the New Solar Telescope
Zhicheng **Zeng**, Bin Chen, Haisheng Ji, Philip R. Goode, Wenda Cao
2016
http://arxiv.org/pdf/1602.04237v1.pdf

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations
A. **Nindos**, S. Patsourakos, A. Vourlidas, C. Tagikas
ApJ **2015**
http://arxiv.org/pdf/1507.03766v1.pdf

When and how does a Prominence-like Jet Gain Kinetic Energy?
Jiajia **Liu**, Yuming Wang1, Rui Liu, Quanhao Zhang, Kai Liu, Chenglong Shen, and S. Wang
2014 ApJ 782 94
http://arxiv.org/pdf/1401.0736v3.pdf

Polarization Emission of Millimeter Activity at the Sun (POEMAS): New Circular Polarization Solar Telescopes at Two Millimeter Wavelength Ranges
Adriana **Valio**, P. Kaufmann, C. G. Giménez de Castro, J.-P. Raulin, L. O. T. Fernandes, A. Marun
Solar Physics, April **2013**, Volume 283, Issue 2, pp 651-665

THE FIRST GROUND LEVEL ENHANCEMENT EVENT OF SOLAR CYCLE 24: DIRECT OBSERVATION OF SHOCK FORMATION AND PARTICLE RELEASE HEIGHTS
N. **Gopalswamy**1, H. Xie1,2, S. Akiyama1,2, S. Yashiro1,2, I. G. Usoskin3, and J. M. Davila
2013 ApJ 765 L30, preprint **File**

8-9 Jul
Multi-wavelength and Dual-perspective Observations of Eruption and Untwisting of Two Homologous Magnetic Flux Ropes
De-Chao **Song**, Y. Li, Y. Su, M. D. Ding, W.Q. Gan
ApJ **2021**
https://arxiv.org/pdf/2109.11187.pdf

9 July – 23:11: M1.1 вспышка, **пересвет** на STEREO-B, B=11*2/297=0,05
Сомнительный, верхний предел, прилимб на STEREO-B

9 July – продолжение медленного подъема of the large south filament eruption

Global energetics of solar flares. XIII. The Neupert effect and acceleration of coronal mass ejections
Markus J. **Aschwanden**
ApJ **2021**

https://arxiv.org/pdf/2112.07759.pdf File

9-10 July – Dst ~-72

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

10 July – 05:16: M1.7 вспышка, **пересвет** на STEREO-B, B=8*2/296=0,07
06:31: M2.0 вспышка, **пересвет** на STEREO-B, B=12*2/296=0,08
Сомнительные, верхний предел, прилимб на STEREO-B

10 July

Cold Solar Flares. I. Microwave Domain
Alexandra L. **Lysenko**1, Stephen M. White2, Dmitry A. Zhdanov3, Nataliia S. Meshalkina3, Aleksander T. Altyntsev3, Galina G. Motorina1,4,5, and Gregory D. Fleishman6,7
2023 ApJ 954 122
https://iopscience.iop.org/article/10.3847/1538-4357/acea20/pdf

Improved CGEM Electric Field Inversion for HMI Active Regions
Xudong **Sun**1, George Fisher2, and Todd Hoeksema3 (for the CGEM Team)
HMI Science Nuggets, #190 **2023**
http://hmi.stanford.edu/hminuggets/?p=4092

An Observational Revisit of Stationary Type IV Solar Radio Bursts
Maoshui **Lv**, Yao Chen, V. Vasanth, Mohd Shazwan Radzi, Zamri Zainal Abidin & Christian Monstein
Solar Physics volume 296, Article number: 38 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01769-6.pdf

Microwave diagnostics of magnetic field strengths in solar flare loops
Rui **Zhu**, Baolin Tan, Yingna Su, Hui Tian, Yu Xu, Xingyao Chen, Yongliang Song, Guangyu Tan
SCIENCE CHINA Technological Sciences **2020** Vol. 60 No. 1
https://arxiv.org/pdf/2006.15014.pdf

Center-to-Limb Variation of Solar Bursts Polarization at Millimeter Wavelengths
R. F. Hidalgo **Ramírez**, A. Morosi, D. Silva, P. J. A. Simoẽs, A. Valio
Solar Physics August **2019**, 294:108
sci-hub.se/10.1007/s11207-019-1503-x

THE 10 JULY 2012 EVENT: AN EXAMPLE OF NARROWBAND GYROSYNCHROTRON BURST?
Meshalkina1 N.S., Fleishman2,3 G.D., Altyntsev1 A.T.
Астрономия-**2018** Том 2 Солнечно-земная физика – современное состояние и перспективы С.141
http://www.izmiran.ru/library/eaas2018/eaas-2018-2.pdf

A large-scale search for evidence of quasi-periodic pulsations in solar flares
A. R. **Inglis**, J. Ireland, B. R. Dennis, L. A. Hayes, P. T. Gallagher
ApJ **2016**
https://arxiv.org/pdf/1610.07454v1.pdf

Global Energetics of Solar Flares: III. Non thermal Energies
Markus J. **Aschwanden**, Gordon Holman, Aidan O'Flannagain, Amir Campi, James M. McTiernan, Eduard Konter
ApJ **2016**
http://arxiv.org/pdf/1607.06488v1.pdf

Radio Observation of Solar-Activity-Related mHz Oscillations
N. V. **Hiep**, P. T. Nhung, P. Darriulat, P. N. Diep, P. T. Anh, P. N. Dong, D. T. Hoai, N. T. Thao
Solar Physics, March **2014**, Volume 289, Issue 3, pp 939-950

10-14 Jul
Comparative case study of two methods to assess the eruptive potential of selected active regions
Francesca **Zuccarello**1, Ilaria Ermolli, Marianna B. Korsos, Fabrizio Giorgi, Salvo L. Guglielmino, Robertus Erdelyi, Paolo Romano
Research in Astronomy and Astrophysics **2021**
https://arxiv.org/pdf/2110.01272.pdf

11 July – the first flight of the Hi-C sounding rocket
>09 UT : эрупция крупного NE/центрального волокна с трансэкваториальным продолжением, крупный CME, могущий прийти к Земле.

Investigating The Cross-section of Coronal Mass Ejections Through the Study of Non-Radial Flows with STEREO/PLASTIC
N. **Al-Haddad**, A. B. Galvin, N. Lugaz, C. J. Farrugia, W. Yu
ApJ **2021**
https://arxiv.org/pdf/2110.10682.pdf

Hydrodynamics of small transient brightenings in Solar corona
Abhishek **Rajhans**, Durgesh Tripathi, Vinay L. Kashyap
ApJ **2021**
https://arxiv.org/pdf/2105.08800.pdf

Gyroresonance and free-free radio emissions from multi-thermal multi-component plasma
Gregory D. **Fleishman**, Alexey A. Kuznetsov, Enrico Landi
ApJ **2021**
https://arxiv.org/pdf/2104.07655.pdf

Active Region Irradiance During Quiescent Periods: New Insights from Sun-as-a-star Spectra
Maria D. **Kazachenko**, Hugh Hudson
ApJ **2020**
https://arxiv.org/pdf/2008.02702.pdf

Cross Sections of Coronal Loop Flux Tubes
James A. **Klimchuk**, Craig E. DeForest
ApJ **2020**
https://arxiv.org/ftp/arxiv/papers/2007/2007.15085.pdf

The Properties of the Solar Corona and Its Connection to the Solar Wind **Review**
Steven R. **Cranmer** (CU Boulder), Amy R. Winebarger (NASA/MSFC)
Annual Review of Astronomy and Astrophysics, volume 57 (**2019**)
https://arxiv.org/pdf/1811.00461.pdf

Energetics of Hi-C EUV brightenings
Srividya **Subramanian**1, Vinay L. Kashyap2, Durgesh Tripathi3, Maria S. Madjarska4 and John G. Doyle1
A&A 615, A47 (**2018**)

Miniature loops in the solar corona

Krzysztof **Barczynski**, Hardi Peter, Sabrina L. Savage
A&A **2016**
https://arxiv.org/pdf/1611.08513v1.pdf

Transition-Region/Coronal Signatures and Magnetic Setting of Sunspot Penumbral Jets: {\it Hinode} (SOT/FG), Hi-C and {\it SDO}/AIA Observations
Sanjiv K. **Tiwari**, Ronald L. Moore, Amy R. Winebarger, Shane E. Alpert
ApJ **201**5
http://arxiv.org/pdf/1511.07900v1.pdf

Solar science with the Atacama Large Millimeter/submillimeter Array - A revolutionizing new view of our Sun **Review**
S. **Wedemeyer**, T. Bastian, R. Brajsa, M. Barta, H. Hudson, G. Fleishman, M. Loukitcheva, B. Fleck, E. P. Kontar, B. De Pontieu, S. K. Tiwari, Y. Kato, R. Soler, P. Yagoubov, J. H. Black, P. Antolin, E. Scullion, S. Gun'ar, N. Labrosse, A. O. Benz, H.-G. Ludwig, P. Hauschildt, J. G. Doyle, V. M. Nakariakov, S. K. Solanki, S. M. White, T. Ayres, P. Heinzel, M. Karlicky, T. Van Doorsselaere, D. Gary,C. E. Alissandrakis, A. Nindos, L. Rouppe van der Voort, M. Shimojo, T. Zaqarashvili, E. Perez
Space Sci. Rev. **2015**
http://arxiv.org/pdf/1504.06887v2.pdf

Flows and Waves in Braided Solar Coronal Magnetic Structures
V **Pant**, A Datta, Dipankar Banerjee
ApJ Letters **2015**
http://arxiv.org/pdf/1501.06507v1.pdf

Trigger Mechanism of Solar Subflares in a Braided Coronal Magnetic Structure
Sanjiv K. Tiwari, Caroline E. Alexander, Amy R. Winebarger, Ronald L. Moore
ApJL, **2014**
http://arxiv.org/pdf/1410.4260v1.pdf

Forward Modeling Transient Brightenings and Microflares around an Active Region Observed with Hi-C
Adam R. **Kobelski**, David E. McKenzie
ApJ, **2014**
http://arxiv.org/pdf/1408.5440v1.pdf

Eruptions of Two Coupled Filaments Observed by SDO, GONG and STEREO
Z. K. **Xue**, X. L. Yan, Z. Q. Qu, C. L. Xu, L. Zhao
Astrophysics and Space Science, **2014**
http://arxiv.org/pdf/1407.3908v1.pdf

The High-Resolution Coronal Imager (Hi-C)
Ken **Kobayashi**, Jonathan Cirtain, Amy R. Winebarger, Kelly Korreck, Leon Golub, Robert W. Walsh, Bart De Pontieu, Craig DeForest, Alan Title, Sergey Kuzin, … show all 24
Solar Phys., **2014**

High-resolution observations of active region moss and its dynamics
R. J. **Morton**, J. A. McLaughlin
2014, ApJ
http://arxiv.org/pdf/1405.5694v1.pdf

Sparkling EUV Bright Dots Observed with Hi-C
S. **Regnier**, C. E. Alexander, R. W. Walsh, A. R. Winebarger, J. Cirtain, L. Golub, K. E. Korreck, N. Mitchell, S. Platt, M. Weber, B. De Pontieu, A. Title, K. Kobayashi, S. Kuzin, C. E. DeForest
E-print, Feb **2014**; **2014** ApJ 784 134

Hi-C observations of EUV anti-parallel filament flows and sparkling dots
Caroline E. **Alexander**, Stephane Regnier and Robert Walsh
UKSP Nugget: 38, Aug **2013**
http://www.uksolphys.org/?p=6961

DETECTING NANOFLARE HEATING EVENTS IN SUBARCSECOND INTER-MOSS LOOPS USING Hi-C
Amy R. **Winebarger**1, Robert W. Walsh2, Ronald Moore1, Bart De Pontieu3, Viggo Hansteen4, Jonathan Cirtain1, Leon Golub5, Ken Kobayashi6, Kelly Korreck5, Craig DeForest7, Mark Weber5, Alan Title3, and Sergey Kuzin
2013 ApJ 771 21

12 July, 16:50 - X1.4 LDE flare (S15, ~W00), coronal wave, halo CME, soft-spectrum radio and protons

See
http://solar.gmu.edu/wiki/presentations/ISEST_2015_workshop/WG1_data/Nitta_stealthy_sun_earth_events.pdf

The effect of AMR and grid stretching on the magnetized CME model in Icarus
Baratashvili Tinatin, Poedts Stefaan
A&A **2024**
https://arxiv.org/pdf/2401.02504.pdf

On the use of relative field line helicity as an indicator for solar eruptivity
K. **Moraitis**, S. Patsourakos, A. Nindos, J.K. Thalmann, É. Pariat
A&A **2023**
https://arxiv.org/pdf/2312.13950.pdf

Solar Wind with Field Lines and Energetic Particles (SOFIE) Model: Application to Historical Solar Energetic Particle Events
Lulu **Zhao**, Igor Sokolov, Tamas Gombosi, David Lario, Kathryn Whitman, Zhenguang Huang, Gabor Toth, Ward Manchester, Bart van der Holst, Nishtha Sachdeva
Space Weather **2023**
https://arxiv.org/pdf/2309.16903.pdf

Automatic detection of solar flares observed at 45 GHz by the POEMAS telescope
Vanessa **Lessa**, Adriana Valio
Astronomy and Computing, **2023**, Volume 44, 100738
https://arxiv.org/pdf/2309.06536.pdf

Improving the Arrival Time Estimates of Coronal Mass Ejections by Using Magnetohydrodynamic Ensemble Modeling, Heliospheric Imager data, and Machine Learning
Talwinder **Singh**, Bernard Benson, Syed A. Z. Raza, Tae K. Kim, Nikolai V. Pogorelov, William P. Smith, Charles N. Arge
2023
https://arxiv.org/pdf/2302.05588.pdf

Machine learning correlation of SDO/AIA EUV images to GOES/XRS X-ray flare magnitudes
Kiera van der **Sande**, Natasha Flyer, Thomas Berger, and Riana Gagnon
Front. Astron. Space Sci. 9:1031211. **2022**
https://www.frontiersin.org/articles/10.3389/fspas.2022.1031211/pdf
https://doi.org/10.3389/fspas.2022.1031211

Changes of Magnetic Energy and Helicity in Solar Active Regions from Major Flares
Yang **Liu**, Brian T. Welsch, Gherardo Valori, Manolis K. Georgoulis, Yang Guo, Etienne Pariat, Sung-Hong Park, Julia K. Thalmann
ApJ **2022**
https://arxiv.org/pdf/2211.09990.pdf

Improving CME evolution and arrival predictions with AMR and grid stretching in Icarus
T. **Baratashvili**1, C. Verbeke1,2, N. Wijsen1 and S. Poedts1,3
A&A 667, A133 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/11/aa44111-22.pdf

Data-constrained MHD simulation for the eruption of a filament-sigmoid system in solar active region 11520
Tie **Liu**, Yuhong Fan, Yingna Su, Yang Guo, Ya Wang, Haisheng Ji
ApJ **2022**
https://arxiv.org/pdf/2211.02354.pdf

Implementation and validation of the FRi3D flux rope model in EUHFORIA
Anwesha **Maharana**, Alexey Isavnin, Camilla Scolini, Nicolas Wijsen, Luciano Rodriguez, Marilena Mierla, Jasmina Magdalenic, Stefaan Poedts
Advances in Space Research (**2022**)
https://arxiv.org/pdf/2207.06707.pdf

Polarimetric Studies of a Fast Coronal Mass Ejection
Marilena **Mierla**, Bernd Inhester, Andrei N. Zhukov, Sergei V. Shestov, Alessandro Bemporad, Philippe Lamy, Serge Koutchmy
Solar Phys. **2022**
https://arxiv.org/pdf/2206.04411.pdf

Ensemble simulations of the 12 July 2012 Coronal Mass Ejection with the Constant Turn Flux Rope Model
Talwinder **Singh**, Tae K. Kim, Nikolai V. Pogorelov, Charles N. Arge
2022 *ApJ* **933** 123
https://arxiv.org/pdf/2205.13009.pdf
https://iopscience.iop.org/article/10.3847/1538-4357/ac73f3/pdf

Reconstruction of the magnetic connection from Mercury to the solar corona during enhancements in the solar proton fluxes at Mercury
A. **Ippolito**1,2, C. Plainaki1, G. Zimbardo3, T. Alberti4, S. Massetti4, A. Milillo4 and S. Orsini4
A&A 660, A50 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/04/aa42328-21.pdf

A magnetic cloud prediction model for forecasting space weather relevant properties of Earth-directed coronal mass ejections
Sanchita **Pal**, Dibyendu Nandy, Emilia K J Kilpua
A&A **2022**
https://arxiv.org/pdf/2203.05231.pdf

Understanding the Origins of Problem Geomagnetic Storms Associated With "Stealth" Coronal Mass Ejections
Nariaki V. **Nitta**, Tamitha Mulligan, Emilia K. J. Kilpua, Benjamin J. Lynch, Marilena Mierla, Jennifer O'Kane, Paolo Pagano, Erika Palmerio, Jens Pomoell, Ian G. Richardson, Luciano Rodriguez, Alexis P. Rouillard, Suvadip Sinha, Nandita Srivastava, Dana-Camelia Talpeanu, Stephanie L. Yardley, Andrei N. Zhukov
Space Science Reviews **2021**
https://arxiv.org/pdf/2110.08408.pdf **File**

Predicting CMEs using ELEvoHI with STEREO-HI beacon data
Maike **Bauer**, Tanja Amerstorfer, Jürgen Hinterreiter, Andreas J. Weiss, Jackie A. Davies, Christian Möstl, Ute V. Amerstorfer, Martin A. Reiss, Richard A. Harrison
Space Weather **2021**
https://arxiv.org/pdf/2108.08072.pdf

Exploring the radial evolution of interplanetary coronal mass ejections using EUHFORIA
C. **Scolini**1,2, S. Dasso3,4, L. Rodriguez2, A. N. Zhukov2,5 and S. Poedts
A&A 649, A69 (**2021**)
https://arxiv.org/pdf/2102.07569.pdf
https://doi.org/10.1051/0004-6361/202040226

Relationship between solar energetic particle intensities and coronal mass ejection kinematics using STEREO/SECCHI field of view
Anitha **Ravishankar** and Grzegorz Michalek
A&A 646, A142 (**2021**)
https://www.aanda.org/articles/aa/pdf/2021/02/aa39537-20.pdf
https://doi.org/10.1051/0004-6361/202039537
https://arxiv.org/pdf/2102.12640.pdf

Coronal Heating Law Constrained by Microwave Gyroresonant Emission
Gregory D. **Fleishman**, Sergey A. Anfinogentov, Alexey G. Stupishin, Alexey A. Kuznetsov, Gelu M. Nita
ApJ **2021**
https://arxiv.org/pdf/2101.03651.pdf

The Solar Event of 14 – 15 July 2012 and Its Geoeffectiveness
Agnieszka **Gil**, Renata Modzelewska, Szczepan Moskwa, Agnieszka Siluszyk, Marek Siluszyk, Anna Wawrzynczak, Mariusz Pozoga & Lukasz Tomasik
Solar Physics volume 295, Article number: 135 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01703-2.pdf

Non-interacting coronal mass ejections and solar energetic particles near the quadrature configuration of Solar TErrestrial RElations Observatory
Anitha **Ravishankar** and Grzegorz Michałek
A&A 638, A42 (**2020**) **File**
https://www.aanda.org/articles/aa/pdf/2020/06/aa37528-20.pdf

Application of a Modified Spheromak Model to Simulations of Coronal Mass Ejection in the Inner Heliosphere
Talwinder **Singh** , Tae K. Kim , Nikolai V. Pogorelov , Charles N. Arge
Space Weather **2020** e2019SW002405
https://doi.org/10.1029/2019SW002405

How Does Magnetic Reconnection Drive the Early Stage Evolution of Coronal Mass Ejections?
Chunming **Zhu**, Jiong Qiu, Paulett Liewer, Angelos Vourlidas, Michael Spiegel, Qiang Hu
ApJ **2020**
https://arxiv.org/pdf/2003.11134.pdf

A Modified Spheromak Model Suitable for Coronal Mass Ejection Simulations
Talwinder **Singh**, Mehmet S. Yalim, Nikolai V. Pogorelov, Nat Gopalswamy
2020
https://arxiv.org/pdf/2002.10409.pdf **File**

A Study of Pre-Flare Solar Coronal Magnetic Fields: Magnetic Flux Ropes
Aiying **Duan**, Chaowei Jiang, Wen He, Xueshang Feng, Peng Zou, Jun Cui
ApJ **2019**
https://arxiv.org/pdf/1908.08643.pdf

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation
Nishtha **Sachdeva**
Ph.D. Thesis **2019**
https://arxiv.org/pdf/1907.12673.pdf

Observation-based modelling of magnetised Coronal Mass Ejections with EUHFORIA
Camilla **Scolini**, Luciano Rodriguez, Marilena Mierla, Jens Pomoell, Stefaan Poedts
A&A **2019**
https://arxiv.org/pdf/1904.07059.pdf

Modeling the multiple CME interaction event on 6-9 September 2017 with WSA-ENLIL+Cone
A. L. E. **Werner**, E. Yordanova, A. P. Dimmock, M. Temmer
Space Weather **2019**
https://doi.org/10.1029/2018SW001993

Drifting of the line-tied footpoints of CME flux-ropes
Guillaume **Aulanier**, Jaroslav Dudik
A&A **2018**
https://arxiv.org/pdf/1811.04253.pdf

The Effects of Uncertainty in Initial CME Input Parameters on Deflection, Rotation, Bz, and Arrival Time Predictions
C. **Kay** , N. Gopalswamy
JGR v. 123 September **2018** Pages 7220-7240
sci-hub.tw/10.1029/2018JA025780

Magnetic Field Modeling of hot channels in Four Flare/CME Events
Tie **Liu**, Yingna Su, Xin Cheng, Adriaan van Ballegooijen, Haisheng Ji
ApJ **2018**
https://arxiv.org/pdf/1810.03795.pdf

A Statistical Study of the Magnetic Imprints of X-Class Flares using SDO/HMI Vector Magnetograms
Zekun **Lu**, Weiguang Cao, Gaoxiang Jin, Yining Zhang, Mingde Ding, Yang Guo
ApJ **2018**
https://arxiv.org/pdf/1803.08310.pdf

Ion Traps at the Sun: Implications for Elemental Fractionation
Gregory **Fleishman**, Sophie Musset, Véronique Bommier, Lindsay Glesener
ApJ **2018**
https://arxiv.org/pdf/1803.02851.pdf

Temporal Evolution of Chromospheric Oscillations in Flaring Regions - A Pilot Study
Teresa **Monsue**, Frank Hill, Keivan G. Stassun
ApJ **2018**
https://arxiv.org/pdf/1803.02506.pdf

A New Technique to Provide Realistic Input to CME Forecasting Models
Nat **Gopalswamy** (a1), Sachiko Akiyama (a2), Seiji Yashiro (a2) and Hong Xie
Proc. IAU Volume 13, Symposium S335 July **2017** , pp. 258-262

sci-hub.se/10.1017/S1743921317011048

Recent Voyager Evidence for Rapid Transport of Flare-Generated Disturbances by Polar Coronal Hole Streams
D S Intriligator1, W D Miller1, J Intriligator1,2, W Webber3, W Sun4, T Detman1, M Dryer1 and C Deehr4
Journal of Physics: Conference Series, Volume 900, Number 1 012010 **2017**
http://iopscience.iop.org/article/10.1088/1742-6596/900/1/012010/pdf

Characteristics that Produce White-Light Enhancements in Solar Flares Observed by Hinode/SOT
Kyoko **Watanabe**, Jun Kitagawa, Satoshi Masuda
ApJ **2017**
https://arxiv.org/pdf/1710.09531.pdf

Understanding Problem Forecasts of ISEST Campaign Flare-CME Events
David **Webb**, Nariaki Nitta
Solar Physics October **2017**, 292:142 **File**

A new technique to provide realistic input to CME forecasting models
Nat **Gopalswamy**, Sachiko Akiyama, Seiji Yashiro, Hong Xie
IAU Symposium 335: Space Weather of the Heliosphere: Processes and Forecasts **2017**
https://arxiv.org/pdf/1709.03160.pdf

Solar Activity from 2006 to 2014 and Short-term Forecasts of Solar Proton Events Using the ESPERTA Model
T. **Alberti**1, M. Laurenza2, E. W. Cliver3, M. Storini2, G. Consolini2, and F. Lepreti
2017 ApJ 838 59 **File**
http://sci-hub.cc/10.3847/1538-4357/aa5cb8

Predicting the magnetic vectors within coronal mass ejections arriving at Earth: 2. Geomagnetic response
N. P. **Savani**, A. Vourlidas, I. G. Richardson, A. Szabo, B. J. Thompson, A. Pulkkinen, M. L. Mays, T. Nieves-Chinchilla, V. Bothmer
Space Weather Volume 15, Issue 2 February **2017** Pages 441–461 DOI: 10.1002/2016SW001458
http://onlinelibrary.wiley.com/doi/10.1002/2016SW001458/full
http://sci-hub.cc/10.1002/2016SW001458

Predicting the Magnetic Field of Earth-impacting CMEs
C. **Kay**1, N. Gopalswamy1, A. Reinard2, and M. Opher3
2017 ApJ 835 117
http://sci-hub.cc/doi/10.3847/1538-4357/835/2/117

Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions
Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
ApJ **2016**
https://arxiv.org/pdf/1611.05047v1.pdf

Predicting the magnetic vectors within coronal mass ejections arriving at Earth: 2. Geomagnetic response: BZ VALIDATION
N. P. **Savani**,1,2 A. Vourlidas,3 I. G. Richardson,4,2 A. Szabo,2 B. J.Thompson,2 A. Pulkkinen,2 M. L. Mays,5,2 T. Nieves-Chinchilla,5,2 V.Bothmer6
Space Weather **2016**

The Energetics of White-light Flares Observed by SDO/HMI and RHESSI
Nengyi **Huang**, Yan Xu, Haimin Wang
Research in Astronomy and Astrophysics **2016**
http://arxiv.org/pdf/1608.06015v1.pdf

Sun-to-Earth Characteristics of the 2012 July 12 Coronal Mass Ejection and Associated Geo-effectiveness
Huidong **Hu**, Ying D. Liu, Rui Wang, Christian Möstl, Zhongwei Yang
ApJ **2016**
http://arxiv.org/pdf/1607.06287v1.pdf **File**

The Characteristics of Solar X-Class Flares and CMEs: A Paradigm for Stellar Superflares and Eruptions?
Louise K. Harra, Carolus J. Schrijver, Miho Janvier, Shin Toriumi, Hugh Hudson, Sarah Matthews, Magnus M. Woods, Hirohisa Hara, Manuel Guedel, Adam Kowalski, Rachel Osten, Kanya Kusano, Theresa Lueftinger
Solar Phys. 2016 Open Access File

Shock Connectivity in the August 2010 and July 2012 Solar Energetic Particle Events Inferred from Observations and ENLIL Modeling
H. M. **Bain**, M. L. Mays, J. G. Luhmann, Y. Li, L. K. Jian, and D. Odstrcil
2016 ApJ 825 1

Using ForeCAT Deflections and Rotations to Constrain the Early Evolution of CMEs
C. **Kay**, M. Opher, R. C. Colaninno, A. Vourlidas
ApJ **2016**
http://arxiv.org/pdf/1606.03460v1.pdf

On the Characteristics of Footpoints of Solar Magnetic Flux Ropes during the Eruption
X. **Cheng**, M. D. Ding
ApJ Supplement Series **2016**
http://arxiv.org/pdf/1605.04047v1.pdf

Relationship Between Sunspot Rotation and a Major Solar Eruption on 12 July 2012
Rui **Wang**, Ying D. Liu , Thomas Wiegelmann, Xin Cheng, Huidong Hu, Zhongwei Yang
Solar Phys. **2016**
http://sci-hub.io/doi/10.1007/s11207-016-0881-6

Dark Post-Flare Loops Observed by Solar Dynamics Observatory
Qiao **Song**, Jing-Song Wang, Xueshang Feng, Xiaoxin Zhang
ApJ **2016**
http://arxiv.org/pdf/1604.01510v1.pdf

The nonpotentiality of coronae of solar active regions, the dynamics of the surface magnetic field, and the potential for large flares
C.J. **Schrijver**
ApJ **2016**
http://arxiv.org/pdf/1602.07244v1.pdf

Did the July 2012 solar events cause a "tsunami" throughout the heliosphere, heliosheath, and into the interstellar medium?†
Devrie **Intriligator**1,*, Wei Sun1,2, Murray Dryer1, James Intriligator1,3, Charles Deehr2, Thomas Detman1 andWilliam R. Webbe
JGR **2015**

Near-Sun Speed of CMEs and the Magnetic Non-potentiality of their Source Active Regions
Sanjiv K. **Tiwari**, David A. Falconer, Ronald L. Moore, P. Venkatakrishnan, Amy R. Winebarger, Igor G. Khazanov
GRL **2015**
http://arxiv.org/ftp/arxiv/papers/1508/1508.01532.pdf
See HMI Science Nuggets, #42, 2015, http://hmi.stanford.edu/hminuggets/?p=1270

Predicting the magnetic vectors within coronal mass ejections arriving at Earth
1. Initial architecture
Savani, N. P.; Vourlidas, A.; Szabo, A.; Mays, M. L.; Thompson, B. J.; Richardson, I. G.; Evans, R.; Pulkkinen, A.; Nieves-Chinchilla, T.
Space Weather , Volume 13, Issue 6 June 2015 Pages 374–385,
http://arxiv.org/pdf/1502.02067v1.pdf File
http://onlinelibrary.wiley.com/doi/10.1002/2015SW001171/full

Evidence of the Solar EUV hot channel as a magnetic flux rope from remote-sensing and in-situ observations
Hongqiang **Song**, Yao Chen, Jie Zhang, Xin Cheng, Bing Wang, Qiang Hu, Gang Li, Yuming Wang
ApJL **2015**
http://arxiv.org/pdf/1507.00078v1.pdf

Estimating the Height of CMEs Associated with a Major SEP Event at the Onset of the Metric Type II Radio Burst during Solar Cycles 23 and 24
P. **Mäkelä**, N. Gopalswamy, S. Akiyama, H. Xie, and S. Yashiro
ApJ **2015**
http://cdaw.gsfc.nasa.gov/publications/makela/makela2015ApJ.pdf

Predicting the Arrival Time of Coronal Mass Ejections with the Graduated Cylindrical Shell and Drag Force Model
Tong **Shi**, Yikang Wang, Linfeng Wan, Xin Cheng, Mingde Ding, Jie Zhang
ApJ **2015**
http://arxiv.org/pdf/1505.00884v1.pdf

Transit time of CME/shock associated with four major geo-effective CMEs in solar cycle 24
M. Syed **Ibrahim**, A. Shanmugaraju, M. Bendict Lawrance
Advances in Space Research, Volume 55, Issue 1, 1 January **2015**, Pages 407–415
http://www.sciencedirect.com/science/article/pii/S0273117714006139

Dynamics of Microwave Sources Associated with the Neutral Line and the Magnetic-Field Parameters of Sunspots as a Factor in Predicting Large Flares
V. E. **Abramov-Maximov**, V. N. Borovik, L. V. Opeikina, A. G. Tlatov
Solar Phys., **2014**

The Relation Between Large-Scale Coronal Propagating Fronts and Type II Radio Bursts
Nariaki V. **Nitta**, Wei Liu, Nat Gopalswamy, Seiji Yashiro
Solar Phys., **2014**
http://www.lmsal.com/nitta/publ/SP_typeII_20140904.pdf
http://arxiv.org/pdf/1409.4754v1.pdf **File**

Evolution of the 2012 July 12 CME from the Sun to the Earth: Data-Constrained Three-Dimensional MHD Simulations†
Fang **Shen**1,*, Chenglong Shen2, Jie Zhang3, Phillip Hess3, Yuming Wang2, Xueshang Feng1, Hongze Cheng2 andYi Yang
JGR, **2014**

The 3D standard model for eruptive flares
Miho **Janvier**
RHESSI Science Nuggets, No. 226, May, **2014**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/The_3D_standard_model_for_eruptive_flares

Formation of a Double-decker Magnetic Flux Rope in the Sigmoidal Solar Active Region 11520
X. **Cheng**, M. D. Ding, J. Zhang, X. D. Sun, Y. Guo, Y. M. Wang, B. Kliem, Y. Y. Deng
E-print, May **2014**; ApJ
http://arxiv.org/pdf/1405.4923v1.pdf

Connecting speeds, directions and arrival times of 22 coronal mass ejections from the Sun to 1 AU
C. **Möstl**, K. Amla, J. R. Hall, P. C. Liewer, E. M. De Jong, R. C. Colaninno, A. M. Veronig, T. Rollett, M. Temmer, V. Peinhart, J. A. Davies, N. Lugaz, Y. D. Liu, C.J. Farrugia, J. G. Luhmann, B. Vršnak, R. A. Harrison, A. B. Galvin
ApJ, **2014**
http://arxiv.org/pdf/1404.3579v1.pdf

Monitoring Coronal Mass Ejections and Space Weather at NASA Goddard Space Flight Center
A. **Taktakishvili**, A. Pulkkinen, Y.Zheng, L. Mays, P. MacNeice, M. Kuznetsova
ИКИ-**2014**, Сессия: Солнечный ветер, гелиосфера и солнечно-земные связи
http://plasma2014.cosmos.ru/presentations

Slipping magnetic reconnection during an X-class solar flare observed by SDO/AIA
J. **Dudik**, M. Janvier, G. Aulanier, G. Del Zanna, M. Karlicky, H. Mason, B. Schmieder
E-print, Jan **2014, File**; ApJ
http://arxiv.org/pdf/1401.7529v1.pdf

Testing the Empirical Shock Arrival Model using Quadrature Observations
N. **Gopalswamy**, P. Mäkelä, H. Xie, and S. Yashiro
Space Weather, in press, **2013**
http://cdaw.gsfc.nasa.gov/publications/gopal/gopal2013SW_testESA.pdf

Magnetic Reconnection: From "Open" Extreme-ultraviolet Loops to Closed Post-flare Ones Observed by SDO
Jun **Zhang**1, Shuhong Yang1, Ting Li1, Yuzong Zhang1, Leping Li1, and Chaowei Jiang
2013 ApJ 776 57

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

12-14 July

Improving CME evolution and arrival predictions with AMR and grid stretching in Icarus
T. **Baratashvili**1, C. Verbeke1,2, N. Wijsen1 and S. Poedts1,3
A&A 667, A133 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/11/aa44111-22.pdf

Turbulent Cascade and Energy Transfer Rate in a Solar Coronal Mass Ejection
Luca **Sorriso-Valvo**1,2, Emiliya Yordanova1, Andrew P. Dimmock1, and Daniele Telloni3

2021 ApJL 919 L30
https://arxiv.org/pdf/2110.02664.pdf
https://doi.org/10.3847/2041-8213/ac26c5

Earth-affecting Solar Transients: A Review of Progresses in Solar Cycle 24
Jie **Zhang**, Manuela Temmer, Nat Gopalswamy, Olga Malandraki, Nariaki V. Nitta, Spiros Patsourakos, Fang Shen, Bojan Vršnak, Yuming Wang, David Webb, Mihir I. Desai, Karin Dissauer, Nina Dresing, Mateja Dumbović, Xueshang Feng, Stephan G. Heinemann, Monica Laurenza, Noé Lugaz, Bin Zhuang
https://arxiv.org/ftp/arxiv/papers/2012/2012.06116.pdf **File 2021**
2020 https://arxiv.org/abs/2012.06116

Sun-to-Earth Observations and Characteristics of Isolated Earth-Impacting Interplanetary Coronal Mass Ejections During 2008 – 2014
D. **Maričić**, B. Vršnak, A. M. Veronig, M. Dumbović, F. Šterc, D. Roša, M. Karlica, D. Hržina & I. Romštajn
Solar Physics volume 295, Article number: 91 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01658-4.pdf

Interplanetary Magnetic Flux Ropes as Agents Connecting Solar Eruptions and Geomagnetic Activities
K. **Marubashi**, K.-S. Cho, H. Ishibashi
Solar Physics December **2017**, 292:189
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1204-2.pdf

Understanding Problem Forecasts of ISEST Campaign Flare-CME Events
David **Webb**, Nariaki Nitta
Solar Physics October **2017**, 292:142 **File**

12-16 July

Ensemble simulations of the 12 July 2012 Coronal Mass Ejection with the Constant Turn Flux Rope Model
Talwinder **Singh**, Tae K. Kim, Nikolai V. Pogorelov, Charles N. Arge
2022
https://arxiv.org/pdf/2205.13009.pdf

Did the July 2012 solar events cause a "tsunami" throughout the heliosphere, heliosheath, and into the interstellar medium?†
Devrie **Intriligator**1,*, Wei Sun1,2, Murray Dryer1, James Intriligator1,3, Charles Deehr2, Thomas Detman1 andWilliam R. Webbe
JGR Volume 120, Issue 10 Volume 120, Issue 10 Oct **2015**

Webb_ISEST (International Study for Earth-Affecting Solar Transients) _MM WG4 Campaign Events_2014, File
See http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_ICME%5CCME_Lists

Evidence of the Solar EUV hot channel as a magnetic flux rope from remote-sensing and in-situ observations
Hongqiang **Song**, Yao Chen, Jie Zhang, Xin Cheng, Bing Wang, Qiang Hu, Gang Li, Yuming Wang
ApJL **2015**
http://arxiv.org/pdf/1507.00078v1.pdf

Evolution of the 2012 July 12 CME from the Sun to the Earth: Data-Constrained Three-Dimensional MHD Simulations†
Fang **Shen**1,*, Chenglong Shen2, Jie Zhang3, Phillip Hess3, Yuming Wang2, Xueshang Feng1, Hongze Cheng2 andYi Yang
JGR, **2014**

12 July- 26 Aug

Modeling solar energetic particle events using ENLIL heliosphere simulations
J. G. **Luhmann,** M. L. Mays, D. Odstrcil, Yan Li, H. Bain, C. O. Lee, A. B. Galvin, R. A. Mewaldt, C. M. S. Cohen, R. A. Leske, et al
Space Weather Volume 15, Issue 7 July **2017** Pages 934–954
http://sci-hub.cc/10.1002/2017SW001617

13 July

Predicting the Time-of-Arrival of Coronal Mass Ejections at Earth From Heliospheric Imaging Observations
Carlos Roberto **Braga**, Angelos Vourlidas, Guillermo Stenborg, Alisson Dal Lago, Rafael Rodrigues Souza de Mendonça, Ezequiel Echer
JGR **2020**
https://arxiv.org/pdf/2008.09005.pdf

Detecting the solar new magnetic flux regions on the base of vector magnetograms
A. A. **Golovko** & I. I. Salakhutdinova
Journal of Atmospheric and Solar-Terrestrial Physics Volume 179, November **2018**, Pages 120-127
http://sci-hub.tw/http://www.sciencedirect.com/science/article/pii/S1364682617307083

Very Long-period Pulsations before the Onset of Solar Flares
Baolin **Tan**, Zhiqiang Yu, Jing Huang, Chengming Tan, Yin Zhang
ApJ **2016**
https://arxiv.org/pdf/1610.09291v1.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

Coronal Condensation in Funnel Prominences as Return Flows of the Chromosphere-Corona Mass Cycle
Liu, Wei; Berger, Thomas E.; and Low, B. C.
2014/01, Nature of Prominences and their role in Space Weather, Proceedings of the International Astronomical Union, IAU Symposium, Volume 300, pp. 441-442
http://sun.stanford.edu/~weiliu/research/publications/2013/2014IAUS_Liu_Berger_Low_funnel-prom.pdf

13-14 Jul

Successive interacting coronal mass ejections: How to create a perfect storm?
Gordon J. **Koehn**, Ravindra T. Desai, Emma E. Davies, Robert J. Forsyth, Jonathan P. Eastwood, Stefaan Poedts
ApJ **2022**
https://arxiv.org/pdf/2211.05899.pdf

13-27 Jul

Magnetohydrodynamic Simulation of Multiple Coronal Mass Ejections: An Effect of "Pre-events"
Chin-Chun **Wu**1, Kan Liou2, Lynn Hutting1, and Brian E. Wood1
2022 ApJ 935 67
https://iopscience.iop.org/article/10.3847/1538-4357/ac7f2a/pdf

14 July
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Circular-ribbon flares and the related activities **Review**
Qingmin **Zhang**
Reviews of Modern Plasma Physics **2024**
https://arxiv.org/pdf/2401.16101.pdf

Cold Solar Flares. I. Microwave Domain
Alexandra L. **Lysenko**1, Stephen M. White2, Dmitry A. Zhdanov3, Nataliia S. Meshalkina3, Aleksander T. Altyntsev3, Galina G. Motorina1,4,5, and Gregory D. Fleishman6,7
2023 ApJ 954 122
https://iopscience.iop.org/article/10.3847/1538-4357/acea20/pdf

Interpretation of flat energy spectra upstream of fast interplanetary shocks
Silvia **Perri**, Giuseppe Prete, Gaetano Zimbardo, Domenico Trotta, Lynn B. Wilson III, David Lario, Sergio Servidio, Francesco Valentini, Joe Giacalone
ApJ **2023**
https://arxiv.org/pdf/2301.05454.pdf

Homologous Accelerated Electron Beams, Quasi-periodic fast-propagating Wave and CME Observed in one Fan-spine Jet
Yadan **Duan**, Yuandeng Shen, Xinping Zhou, Zehao Tang, Chengrui Zhou, Song Tan
ApJ **926** L39 **2022**
https://arxiv.org/pdf/2201.08982.pdf
https://iopscience.iop.org/article/10.3847/2041-8213/ac4df2/pdf

Observation-based modelling of the energetic storm particle event of 14 July 2012
Nicolas **Wijsen**, Angels Aran, Camilla Scolini, David Lario, Alexandr Afanasiev, Rami Vainio, Blai Sanahuja, Jens Pomoell, Stefaan Poedts
A&A **2022**
https://arxiv.org/pdf/2201.06454.pdf

Global energetics of solar flares. XIII. The Neupert effect and acceleration of coronal mass ejections
Markus J. **Aschwanden**
ApJ **2021**
https://arxiv.org/pdf/2112.07759.pdf File

Geoeffectiveness of interplanetary shocks controlled by impact angles: A review
D.M.**Oliveira**, A.A.Samsonov
Advances in Space Research Volume 61, Issue 1, 1 January **2018**, Pages 1-44
https://ac.els-cdn.com/S0273117717307275/1-s2.0-S0273117717307275-main.pdf?_tid=bba606ae-de3f-11e7-b55e-00000aacb35e&acdnat=1512975277_eb1699c52c6f97d7ff8493d1fe7e47bb

Study of the Geoeffectiveness and Galactic Cosmic-Ray Response of VarSITI-ISEST Campaign Events in Solar Cycle 24
O. P. M. **Aslam**, Badruddin
Solar Physics September **2017**, 292:135

Origin and Structures of Solar Eruptions I: Magnetic Flux Rope (Invited Review)
X. **Cheng**, Y. Guo, M. D. Ding
SCIENCE CHINA Earth Sciences **2017 File**
https://arxiv.org/pdf/1705.08198.pdf

Forbush Decreases during the DeepMin and MiniMax of Solar Cycle 24
D. **Lingri,** H. Mavromichalaki, A. Belov, E. Eroshenko, V. Yanke, A. Abunin, M. Abunina
XXV European Cosmic Ray Symposium, Turin, Sept. 4-9 2016 2016
https://arxiv.org/pdf/1612.08900v1.pdf

Solar Activity Parameters and Associated Forbush Decreases During the Minimum Between Cycles 23 and 24 and the Ascending Phase of Cycle 24
D. **Lingri**, H. Mavromichalaki , A. Belov, E. Eroshenko, V. Yanke, A. Abunin, M. Abunina
Solar Phys. **2016**

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

Stereoscopic Study of the Kinematic Evolution of a Coronal Mass Ejection and Its Driven Shock from the Sun to the Earth and the Prediction of Their Arrival Times
Phillip **Hess** and Jie Zhang
2014 ApJ 792 49

THE RELATIONSHIP BETWEEN EXTREME ULTRAVIOLET NON-THERMAL LINE BROADENING AND HIGH-ENERGY PARTICLES DURING SOLAR FLARES
T. **Kawate**1,2 and S. Imada
2013 ApJ 775 122
http://arxiv.org/pdf/1308.3415v1.pdf

14-15 Jul

Small-scale flux ropes in ICME sheaths
J. **Ruohotie**, E. K. J. Kilpua, S. W. Good, M. Ala-Lahti
Frontiers in Astronomy and Space Sciences **2022**
https://arxiv.org/pdf/2208.07662.pdf

14-17 July

Solar Energetic Particle Events and Forbush Decreases Driven by the Same Solar Sources
Belov, Anatoly ; Shlyk, Nataly ; Abunina, Maria ; Belova, Elena ; Abunin, Artem ; Papaioannou, Athanasios
Universe **2022**, 8(8), 403;
https://doi.org/10.3390/universe8080403
https://www.mdpi.com/2218-1997/8/8/403/pdf

An Extended Study of the Precursory Signs of Forbush Decreases: New Findings over the Years 2008 – 2016
D. **Lingri**, H. Mavromichalaki, A. Belov, M. Abunina, E. Eroshenko, A. Abunin
Solar Physics June **2019**, 294:70
sci-hub.se/10.1007/s11207-019-1461-3

Did the July 2012 solar events cause a "tsunami" throughout the heliosphere, heliosheath, and into the interstellar medium?†

Devrie **Intriligator**1,*, Wei Sun1,2, Murray Dryer1, James Intriligator1,3, Charles Deehr2, Thomas Detman1 andWilliam R. Webbe
JGR **2015**

Predicting the magnetic vectors within coronal mass ejections arriving at Earth
Savani, N. P.; Vourlidas, A.; Szabo, A.; Mays, M. L.; Thompson, B. J.; Richardson, I. G.; Evans, R.; Pulkkinen, A.; Nieves-Chinchilla, T.
Space Weather Journal , Jan **2015, File**
http://arxiv.org/pdf/1502.02067v1.pdf

15 July – 18:51: C3.8 вспышка, **пересвет** на STEREO-A, A=10*2/312=0,064

15 July – геомагнитная буря Dst~127 nT

Ensemble simulations of the 12 July 2012 Coronal Mass Ejection with the Constant Turn Flux Rope Model
Talwinder **Singh**, Tae K. Kim, Nikolai V. Pogorelov, Charles N. Arge
2022
https://arxiv.org/pdf/2205.13009.pdf

Can Smartphones Detect Geomagnetic Storms?
S. F. **Odenwald**
Space Weather e2020SW002669 **2021**
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002669

On the quasi-three dimensional configuration of magnetic clouds
Qiang **Hu**, Wen He, Jiong Qiu, A. Vourlidas, Chunming Zhu
GRL **2020**
https://arxiv.org/pdf/2010.11889.pdf

The Solar Event of 14 – 15 July 2012 and Its Geoeffectiveness
Agnieszka **Gil**, Renata Modzelewska, Szczepan Moskwa, Agnieszka Siluszyk, Marek Siluszyk, Anna Wawrzynczak, Mariusz Pozoga & Lukasz Tomasik
Solar Physics volume 295, Article number: 135 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01703-2.pdf

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

16 July
Fourier Power Spectra of Solar Noise Storms
Marian **Karlický**, Ján Rybák, Christian Monstein
Solar Physics October **2018**, 293:143
sci-hub.tw/10.1007/s11207-018-1367-5

17 July – 18:16: M1.7 **пересвет** A=32*2/312=0,21 ←16s 8s→ **17:56** 25*2/312=0.16
Очень длинное LDE

17 July, 17:15 – Комплекс SW прилимбовых АО 520-521, M1.7 LDE с необычно длинным нарастанием от 12 до 17 UT, протоны, крупный CME, см. STEREO-A

Statistical Study of the Kinetic Features of Supra-arcade Downflows Detected from Multiple Solar Flares
Xiaoyan **Xie**1,2,3, Katharine K. Reeves2, Chengcai Shen2, and Joshua D. Ingram4,2
2022 ApJ 933 15
https://iopscience.iop.org/article/10.3847/1538-4357/ac695d/pdf

Resolving Two Distinct Thermal X-ray Components in a compound Solar Flare
Zhenjun **Zhou**, Rui Liu, Jianqing Sun, Jie Zhang, Mingde Ding, Yuming Wang, Xiaoyu Yu, Lijuan Liu, Jun Cui
ApJ **2021**
https://arxiv.org/pdf/2112.04652.pdf

Thermodynamic Evolution of Solar Flare Supra-arcade Downflows
Z. F. **Li**1,2, X. Cheng1,2,3, M. D. Ding1,2, Katharine K. Reeves4, DeOndre Kittrell4,5, Mark Weber4, and David E. McKenzie6
2021 ApJ 915 124
https://arxiv.org/pdf/2107.09215.pdf
https://doi.org/10.3847/1538-4357/ac043e

Onset of a CME-Related Shock Within the Large-Angle Spectrometric Coronagraph (LASCO) Field of View
V.G.**Fainshtein**, Ya.I.Egorov
Solar Physics September **2019**, 294:126
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1519-2.pdf
https://doi.org/10.1007/s11207-019-1519-2

Automatic detection of Interplanetary Coronal Mass Ejections from in-situ data: a deep learning approach
Gautier **Nguyen**, Nicolas Aunai, Dominique Fontaine, Erwan Le Pennec, Joris Van den Bossche, Alexis Jeandet, Brice Bakkali, Louis Vignoli, Bruno Regaldo-Saint Blancar
2019
https://arxiv.org/pdf/1903.10780.pdf

Origin of a CME-related shock within the LASCO C3 field-of-view
V.G.**Fainshtein**, Ya.I.Egorov
Solar Phys. **2017**
https://arxiv.org/pdf/1712.09051.pdf

Origin of Radio Enhancements in Type II Bursts in the Outer Corona
Firas **Al-Hamadani**, Silja Pohjolainen, Eino Valtonen
Solar Physics September **2017**, 292:127
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1148-6.pdf

Exploring the potential of microwave diagnostics in SEP forecasting: The occurrence of SEP events
Pietro **Zucca**, Marlon Núñez and Karl-Ludwig Klein
J. Space Weather Space Clim., 7, A13 (**2017**)
https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170001.pdf

Are chains of type I radio bursts generated by similar processes as drifting pulsation structures observed during solar flares?
Marian **Karlicky**
A&A **2017**
https://arxiv.org/pdf/1704.08532.pdf

Observational Characteristics of CMEs without Low Coronal Signatures

E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

Shock Connectivity in the August 2010 and July 2012 Solar Energetic Particle Events Inferred from Observations and ENLIL Modeling
H. M. **Bain**, M. L. Mays, J. G. Luhmann, Y. Li, L. K. Jian, and D. Odstrcil
2016 ApJ 825 1

Analyses of the Evolution and Interaction of Multiple Coronal Mass Ejections and Their Shocks in July 2012
Wu, S. T.; Wu, C.; Liou, K.; Plunkett, S.; Dryer, M.; Fry, C. D.
Outstanding Problems in Heliophysics: From Coronal Heating to the Edge of the Heliosphere. Proceedings of a conference held 14-19 April 2013 at Myrtle Beach, South Carolina, USA. Edited by Qiang Hu and Gary P. Zank. **ASP Conference Series**, Vol. 484, **2014**, p.241-247

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

The Slowest Flare
Sam **Freeland** and Hugh Hudson:
RHESSI_Science_Nuggets, No. 180, July **2012**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/RHESSI_Science_Nuggets

18 July

The source and engine of coronal mass ejections **Review**
Manolis K. **Georgoulis**, Alexander Nindos, and Hongqi Zhang
Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences v. 377 Issue 2148 Article ID: 20180094 **2019**
https://royalsocietypublishing.org/doi/pdf/10.1098/rsta.2018.0094

Study of Solar Energetic Particle Associations with Coronal Extreme-ultraviolet Waves
Jinhye **Park**1, D. E. Innes2, R. Bucik2,3, Y.-J. Moon1,4, and S. W. Kahler
2015 ApJ 808 3 **File**
https://www.academia.edu/35052617/STUDY_OF_SOLAR_ENERGETIC_PARTICLE_ASSOCIATIONS_WITH_CORONAL_EXTREME-ULTRAVIOLET_WAVES?email_work_card=view-paper

18-19 July

DIRECT EVIDENCE FOR A FAST CORONAL MASS EJECTION DRIVEN BY THE PRIOR FORMATION AND SUBSEQUENT DESTABILIZATION OF A MAGNETIC FLUX ROPE
S. **Patsourakos**1, A. Vourlidas2, and G. Stenborg
2013 ApJ 764 125

19 July – 06:16: M7.7 **пересвет** A=53*2/312= 0,34 ←16s 8s→ **05:56** 29*2/312=0.186
Двойная, иллюстрация

19 July, 05:58 – Комплекс SW прилимбовых АО 520-521, M7.1 LDE, протоны, крупный CME, см. STEREO-A
See https://www.youtube.com/watch?v=HFT7ATLQQx8

О возможном различии в формировании корональных выбросов массы двух типов.
Еселевич В.Г., Еселевич М.В., Зимовец И.В.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 8. **2022**. № 2 С. 12–22.
DOI : 10.12737/szf-82202202
https://naukaru.ru/ru/storage/viewWindow/94294

Observational Signatures of Tearing Instability in the Current Sheet of a Solar Flare
Lei **Lu**, Li Feng, Alexander Warmuth, Astrid M. Veronig, Jing Huang, Siming Liu, Weiqun Gan, Zongjun Ning, Beili Ying, Guannan Gao
ApJ **2021**
https://arxiv.org/pdf/2112.07857.pdf

Quasi-Periodic Pulsations in Solar and Stellar Flares: A Review of Underpinning Physical Mechanisms and Their Predicted Observational Signatures
I. V. **Zimovets**, J. A. McLaughlin, A. K. Srivastava, D. Y. Kolotkov, A. A. Kuznetsov, E. G. Kupriyanova, I.-H. Cho, A. R. Inglis, F. Reale, D. J. Pascoe, H. Tian, D. Yuan, D. Li & Q. M. Zhang
Space Science Reviews volume 217, Article number: 66 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11214-021-00840-9.pdf
https://doi.org/10.1007/s11214-021-00840-9

A statistical study of propagating MHD kink waves in the quiescent corona
Ajay K. **Tiwari**, Richard J. Morton, James A. McLaughlin
ApJ **2021**
https://arxiv.org/pdf/2105.12451.pdf

Three Dimensional Simulations of Solar Wind Preconditioning and the 23 July 2012 Interplanetary Coronal Mass Ejection
Ravindra T. **Desai**, Han Zhang, Emma E. Davies, Julia E. Stawarz, Joan Mico-Gomez, Pilar Iváñez-Ballesteros
Solar Phys. **295**, Article number: 130 **2020**
https://arxiv.org/pdf/2009.02392.pdf
https://link.springer.com/content/pdf/10.1007/s11207-020-01700-5.pdf

A Compact Source for Quasi-Periodic Pulsation in an M-class Solar Flare
Ding **Yuan**, Song Feng, Dong Li, Zhongjun Ning, Baolin Tan
ApJL **2019**
https://arxiv.org/pdf/1911.05217.pdf

Electron distribution and energy release in magnetic reconnection outflow regions during the pre-impulsive phase of a solar flare
Marina **Battaglia**, Eduard P. Kontar, Galina Motorina
ApJ **2019**
https://arxiv.org/pdf/1901.07767.pdf

СТРУКТУРА И ФИЗИЧЕСКИЕ УСЛОВИЯ В НА-ПЕТЛЯХ ВСПЫШКИ БАЛЛА M7.7

ФИРСТОВА Н.М.✉1, ПОЛЯКОВ В.И.
ПАЖ Том: 43Номер: 11 Год: **2017** Страницы: 845-856

Statistical Studies of Solar White-Light Flares and Comparisons with Superflares on Solar-type Stars

Kosuke **Namekata**, Takahito Sakaue, Kyoko Watanabe, Ayumi Asai, Hiroyuki Maehara, Yuta Notsu,Shota Notsu, Satoshi Honda, Takako Ishii, Kai Ikuta, Daisaku Nogami, Kazunari Shibata
ApJ **2017**
https://arxiv.org/pdf/1710.11325.pdf

A Compressed Sensing-based Image Reconstruction Algorithm for Solar Flare X-Ray Observations
Simon **Felix**, Roman Bolzern, Marina Battaglia
2017
https://arxiv.org/pdf/1709.08116.pdf

УСКОРЕНИЕ ЭЛЕКТРОНОВ В МАГНИТНЫХ ЛОВУШКАХ СОЛНЕЧНОЙ ВСПЫШКИ: МОДЕЛЬНЫЕ СВОЙСТВА И ИХ НАБЛЮДАТЕЛЬНЫЕ ПОДТВЕРЖДЕНИЯ

ГРИЦЫК П.А.1, СОМОВ Б.В.1
ПАЖ Том: 43Номер: 9 Год: **2017** Страницы: 676

On the nature of off-limb flare continuum sources detected by SDO/HMI
P.**Heinzel**, L. Kleint, J. Kasparova, S. Krucker
ApJ **2017**
https://arxiv.org/pdf/1709.06377.pdf

Non-Equilibrium Processes in the Solar Corona, Transition Region, Flares, and Solar Wind \textit{(Invited Review)}
Jaroslav **Dudík**, Elena Dzifčáková, Nicole Meyer-Vernet, Giulio Del Zanna, Peter R. Young, Alessandra Giunta, Barbara Sylwester, Janusz Sylwester, Mitsuo Oka, Helen E. Mason, Christian Vocks, Lorenzo Matteini, Säm Krucker, David R. Williams, Šimon Mackovjak
Solar Phys. **2017**
https://arxiv.org/pdf/1706.03396.pdf

Which Bow Shock Theory, Gasdynamic or Magnetohydrodynamic, Better Explains CME Stand-off Distance Ratios from LASCO-C2 Observations ?
Jae-Ok **Lee**1,2, Y.-J. Moon1, Jin-Yi Lee3, R.-S. Kim2, and K.-S. Cho2
2017 ApJ 838 70
http://sci-hub.cc/10.3847/1538-4357/aa656f

QUASI-PERIODIC ACCELERATION OF ELECTRONS IN THE FLARE ON 2012 JULY 19
Jing **Huang**1,2, Eduard P. Kontar3, Valery M. Nakariakov4, and Guannan Gao
2016 ApJ 831 119

РЕНТГЕНОВСКОЕ И МИКРОВОЛНОВОЕ ИЗЛУЧЕНИЕ СОЛНЕЧНОЙ ВСПЫШКИ 19 ИЮЛЯ 2012 ГОДА: ВЫСОКОТОЧНЫЕ НАБЛЮДЕНИЯ И КИНЕТИЧЕСКИЕ МОДЕЛИ

ГРИЦЫК П.А.1, СОМОВ Б.В.1
Том: 42Номер: 8 Год: **2016** Страницы: 586

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics
Markus J. Aschwanden
ApJ 2016
http://arxiv.org/pdf/1605.04952v1.pdf File
http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

Microwave imaging of a hot flux rope structure during the pre-impulsive stage of an eruptive M7.7 solar flare

Z. **Wu**, Y. Chen, G. Huang, H. Nakajima, H. Song, V. Melnikov, W. Liu, G. Li, K. Chandrashekhar, F. Jiao
ApJL **2016**
http://arxiv.org/pdf/1603.02777v1.pdf

Do All Candle-Flame-Shaped Flares Have the Same Temperature Distribution?
Tingyu **Gou**, Rui Liu, Yuming Wang
Solar Phys. **2015**

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations
A. **Nindos**, S. Patsourakos, A. Vourlidas, C. Tagikas
ApJ **2015**
http://arxiv.org/pdf/1507.03766v1.pdf

Estimating the Height of CMEs Associated with a Major SEP Event at the Onset of the Metric Type II Radio Burst during Solar Cycles 23 and 24
P. **Mäkelä**, N. Gopalswamy, S. Akiyama, H. Xie, and S. Yashiro
ApJ **2015**
http://cdaw.gsfc.nasa.gov/publications/makela/makela2015ApJ.pdf

RHESSI Heliophysics Senior Review 2015
High Energy Solar Spectroscopic Imager
Samuel **Krucker**, Brian Dennis, Albert Shih, Manfred Bester
http://hesperia.gsfc.nasa.gov/senior_review/2015/senior_review_proposal_2015.pdf

Electron Energy Partition in the Above-the-looptop Solar Hard X-Ray Sources
Mitsuo **Oka**1, Säm Krucker1,2, Hugh S. Hudson1,3, and Pascal Saint-Hilaire
ApJ 799 129 **2015**

Above-the-Looptop Sources
Mitsuo **Oka** and Sa"m Krucker.
RHESSI Science Nugget No. 244, Jan **2015**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Above-the-Looptop_Sources

Dynamical Processes At the Vertical Current Sheet Behind an Erupting Flux Rope
Rui **Liu**
MNRAS Volume 434, Issue 2, 11 September **2013**, Pages 1309–1320
https://sci-hub.tw/10.1093/mnras/stt1090

Analyses of the Evolution and Interaction of Multiple Coronal Mass Ejections and Their Shocks in July 2012
Wu, S. T.; Wu, C.; Liou, K.; Plunkett, S.; Dryer, M.; Fry, C. D.
Outstanding Problems in Heliophysics: From Coronal Heating to the Edge of the Heliosphere. Proceedings of a conference held 14-19 April 2013 at Myrtle Beach, South Carolina, USA. Edited by Qiang Hu and Gary P. Zank. **ASP Conference Series**, Vol. 484, **2014**, p.241-247

Differential Emission Measure Analysis of A Limb Solar Flare on 2012 July 19
J. Q. **Sun**, X. Cheng, M. D. Ding
ApJ, **2014**
http://arxiv.org/pdf/1403.6202v2.pdf

Физические отличия в начальной фазе формирования двух типов корональных выбросов массы
М.В.**Еселевич**

ИКИ-2014, Сессия: Солнце
http://plasma2014.cosmos.ru/presentations

Particle Densities within the Acceleration Region of a Solar Flare
Sa"am **Krucke**r1;2, Marina Battaglia
E-print, Oct **2013**;

Electron Distribution Functions in Solar Flares from combined X-ray and EUV Observations
Marina **Battaglia** & Eduard P. Kontar
E-print, Oct **2013**, http://arxiv.org/pdf/1310.3930v1.pdf; ApJ

Acceleration-region Densities
Sa"m **Krucker** and Marina Battaglia.
RHESSI Science Nugget, No. 205, Aug **2013**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Acceleration-region_Densities

RHESSI Heliophysics Senior Review 2013
Samuel **Krucker**, Brian Dennis, Manfred Bester, Laura Peticolas
http://hesperia.gsfc.nasa.gov/senior_review/2013/senior_review_proposal_2013.pdf**, 2013, File**

Dynamical Processes At the Vertical Current Sheet Behind an Erupting Flux Rope
Rui **Liu**
E-print, June **2013**, MNRAS

Fine-scale Structures of Flux Ropes Tracked by Erupting Material
Ting **Li** & Jun Zhang
E-print, May **2013**, A&A

Plasmoid Ejections and Loop Contractions in an Eruptive M7.7 Solar Flare: Evidence of Particle Acceleration and Heating in Magnetic Reconnection Outflows
Wei **Liu**, Qingrong Chen, Vahe' Petrosian
E-print, March **2013**, ApJ, 767 168, **2013**
http://hesperia.gsfc.nasa.gov/rhessi3/news-and-resources/results/movies.html

THE FIRST GROUND LEVEL ENHANCEMENT EVENT OF SOLAR CYCLE 24: DIRECT OBSERVATION OF SHOCK FORMATION AND PARTICLE RELEASE HEIGHTS
N. **Gopalswamy**1, H. Xie1,2, S. Akiyama1,2, S. Yashiro1,2, I. G. Usoskin3, and J. M. Davila
2013 ApJ 765 L30, preprint **File**

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**

20 July
Shock Connectivity in the August 2010 and July 2012 Solar Energetic Particle Events Inferred from Observations and ENLIL Modeling
H. M. **Bain**, M. L. Mays, J. G. Luhmann, Y. Li, L. K. Jian, and D. Odstrcil
2016 ApJ 825 1

21 July

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

22 July

Observation of solar coronal heating powered by magneto-acoustic oscillations in a moss region
Parida **Hashim**, Zhenxiang Hong, Haisheng Ji, Jinhua Shen, Kaifan Ji, Wenda Cao
Research in Astron. Astrophys. **2020**
https://arxiv.org/pdf/2010.06787.pdf

The Nature and Origin of Moving Solar Radio Bursts Associated with Coronal Mass Ejections
Diana **Morosan**, Emilia Kilpua, Erika Palmerio, Benjamin Lynch, Jens Pomoell, Rami Vainio, Minna Palmroth, Juska Räsänen
EGU2020 Presentation #5379 **File**

Extended radio emission associated with a breakout eruption from the back side of the Sun
D. E. **Morosan**, E. Palmerio, B. J. Lynch, E. K. J. Kilpua
A&A **2019**
https://arxiv.org/pdf/1912.05995.pdf

23 July – 02:41: залимбовый **пересвет** на STEREO-A, A=28*2/312= 0,18

23 July, >02 UT – Крупная эрупция в далеко-залимбовой АО 1520 (см. STEREO-A) VERY FAST FARSIDE CME with rare speed: 3400 km/s/ Очень длительные протоны.

См. фильмы http://cdaw.gsfc.nasa.gov/stereo/daily_movies/2012/07/23/

Spaceweather.com (20 March 2014): http://www.youtube.com/watch?v=vQvsFjse9yw

NASA movie (28 Apr 2014) http://www.youtube.com/watch?v=7ukQhycKOFw

NASA, 24 July 2014 http://science.nasa.gov/science-news/science-at-nasa/2014/23jul_superstorm/

See http://www.spaceweather.com/ on 31.10.2014
http://www.spaceweather.com/archive.php?view=1&day=01&month=11&year=2014

http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Parametric study of the kinematic evolution of coronal mass ejection shock waves and their relation to flaring activity
Manon **Jarry**, Alexis P. Rouillard, Illya Plotnikov, Athanasios Kouloumvakos, Alexander Warmuth
A&A **2023**
https://arxiv.org/pdf/2303.08663.pdf

On the Role of Interplanetary Shocks in Accelerating MeV Electrons
N. Talebpour **Sheshvan**, N. Dresing, R. Vainio, A. Afanasiev, D. E. Morosan
A&A **2023**
https://arxiv.org/pdf/2301.05587.pdf

Analysis of signal to noise ratio in coronagraph observations of coronal mass ejections
Johannes **Hinrichs**, Jackie A. Davies, Matthew J. West, Volker Bothmer, Bram Bourgoignie, Chris J. Eyles, Philipp Huke, Piers Jiggens, Bogdan Nicula and James Tappin
J. Space Weather Space Clim. **2021**, 11, 11
https://doi.org/10.1051/swsc/2020070
https://www.swsc-journal.org/articles/swsc/pdf/2021/01/swsc200025.pdf

Three Dimensional Simulations of Solar Wind Preconditioning and the 23 July 2012 Interplanetary Coronal Mass Ejection
Ravindra T. **Desai**, Han Zhang, Emma E. Davies, Julia E. Stawarz, Joan Mico-Gomez, Pilar Iváñez-Ballesteros
Solar Phys. **295**, Article number: 130 **2020**
https://arxiv.org/pdf/2009.02392.pdf
https://link.springer.com/content/pdf/10.1007/s11207-020-01700-5.pdf

Small Size Ground Level Enhancements During Solar Cycle 24
Leonty I. **Miroshnichenko**, Chuan Li & Victor G. Yanke
Solar Physics volume 295, Article number: 102 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01659-3.pdf

Characteristics and Importance of "ICME-in-Sheath" Phenomenon and Upper Limit for Geomagnetic Storm Activity
Ying D. **Liu**, Chong Chen, Xiaowei Zhao
ApJL **2020**
https://arxiv.org/pdf/2006.09699.pdf

Numerical simulation and data analysis of the 23 July 2012 SEP event observed by ACE, STEREO-A, and STEREO-B
G. **Qin** and S.-Y. Qi
A&A 637, A48 (**2020**) DOI: https://doi.org/10.1051/0004-6361/201936786
https://www.aanda.org/articles/aa/pdf/2020/05/aa36786-19.pdf

A Solar Energetic Particle Removal Algorithm for the Compact Coronagraph
Nicholas A. **Crump**, Dennis G. Socker, and Dennis Wang
2019 Res. Notes AAS 3 183
https://iopscience.iop.org/article/10.3847/2515-5172/ab5f14

The Large Energetic Storm Particle Event of September 18, 2017 Observed by STEREO-A R. **Mewaldt**, C. Cohen, G. Li, J. Hu, D. Lario and E. Christian
PoS(ICRC2019) id. 1120 **2019**
https://pos.sissa.it/358/1120/pdf

Connecting the Properties of Coronal Shock Waves with those of Solar Energetic Particles
Kouloumvakos A., A. P. Rouillard, Y. Wu, R. Vainio, A. Vourlidas, I. Plotnikov, A. Afanasiev, H. Önel
2019 ApJ 876 80
sci-hub.se/10.3847/1538-4357/ab15d7

A Comparative Study of 2017 July and 2012 July Complex Eruptions: Are Solar Superstorms "Perfect Storms" in Nature?
Ying D. **Liu**, Xiaowei Zhao, Huidong Hu, Angelos Vourlidas, Bei Zhu
ApJ **2019**

The Ground Level Enhancement Event of September 2017 and Other Large Solar Energetic Particle Events of Cycle 24
C. M. S. **Cohen**, R. A. Mewaldt
Space Weather **2018**
sci-hub.tw/10.1029/2018SW002006

Extreme Space Weather Events: From Cradle to Grave **Review**
Pete **Riley**, Dan Baker, Ying D. Liu, Pekka Verronen, Howard Singer, Manuel Güdel
Space Science Reviews February **2018**, 214:21
https://link.springer.com/article/10.1007/s11214-017-0456-3

Recent Voyager Evidence for Rapid Transport of Flare-Generated Disturbances by Polar Coronal Hole Streams
D S **Intriligator**1, W D Miller1, J Intriligator1,2, W Webber3, W Sun4, T Detman1, M Dryer1 and C Deehr4
Journal of Physics: Conference Series, Volume 900, Number 1 012010 **2017**
http://iopscience.iop.org/article/10.1088/1742-6596/900/1/012010/pdf

Searching for Extreme SEP Events with STEREO,
Cohen, C. M. S., J. G. Luhmann, R. A. Mewaldt, M. L. Mays, H. M. Bain, Y. Li, and C. O. Lee (**2017**), Proceedings of 35th ICRC Conference, PoS(ICRC2017), id.134, 1–8.
https://pos.sissa.it/301/134/pdf

Geoeffective Properties of Solar Transients and Stream Interaction Regions **Review**
E. K. J. **Kilpua**, A. Balogh, R. von Steiger,Y. D. Liu
Space Science Reviews Volume 212, Issue 3–4, pp 1271–1314 **2017**
https://link.springer.com/content/pdf/10.1007%2Fs11214-017-0411-3.pdf

Particle Radiation Sources, Propagation and Interactions in Deep Space, at Earth, the Moon, Mars, and Beyond: Examples of Radiation Interactions and Effects **Review**
Schwadron, N.A., Cooper, J.F., Desai, M. et al.
Space Sci Rev Volume 212, Issue 3–4, pp 1069–1106 (**2017**). doi:10.1007/s11214-017-0381-5
Part of the following topical collections:
The Scientific Foundation of Space Weather
https://link.springer.com/content/pdf/10.1007%2Fs11214-017-0381-5.pdf

Coronal cavities: observations and implications for the magnetic environment of prominences
Sarah E. **Gibson**
Solar Prominences, Astrophysics and Space Science Library, Volume 415. ISBN 978-3-319-10415-7. Springer International Publishing Switzerland, **2015**, p. 323
https://arxiv.org/pdf/1702.02214.pdf

Structure, Propagation and Expansion of a CME-Driven Shock in the Heliosphere: A Revisit of the 2012 July 23 Extreme Storm
Ying D. **Liu**, Huidong Hu, Bei Zhu, Janet G. Luhmann, Angelos Vourlidas
ApJ **2016**
https://arxiv.org/pdf/1611.04239v1.pdf

The 2012 July 23 Backside Eruption: An Extreme Energetic Particle Event?
Nat **Gopalswamy**, Seiji Yashiro, Neeharika Thakur, Pertti Mäkelä, Hong Xie, Sachiko Akiyama
ApJ **2016**
https://arxiv.org/pdf/1610.05790v1.pdf **File**

Large gradual solar energetic particle events **Review**
Mihir **Desai**, Joe Giacalone
Living Reviews in Solar Physics, December **2016**, 13:3
http://solarphysics.livingreviews.org/

Solar Energetic Particle Event Associated with the 2012 July 23 Extreme Solar Storm
Bei **Zhu**, Ying D. Liu, Janet G. Luhmann, Huidong Hu, Rui Wang, Zhongwei Yang
2016
http://arxiv.org/pdf/1607.01585v1.pdf **File**

PROPERTIES OF THE FAST FORWARD SHOCK DRIVEN BY THE 2012 JULY 23 EXTREME CORONAL MASS EJECTION
Pete **Riley**1, Ronald M. Caplan1, Joe Giacalone2, David Lario3, and Ying Liu
2016 ApJ 819 57

Powerful non-geoeffective interplanetary disturbance of July 2012 observed by muon hodoscope URAGAN
I.I. **Astapov**, , , N.S. Barbashinaa, A.A. Petrukhina, V.V. Shutenkoa, I.S. Veselovsky
Advances in Space Research Volume 56, Issue 12, 15 December **2015**, Pages 2833–2838
http://www.sciencedirect.com/science/article/pii/S0273117715001854

Ensemble Modeling of the 23 July 2012 Coronal Mass Ejection
M. D. **Cash**, D. A. Biesecker, V. Pizzo, C. A. de Koning, G. Millward, C. N. Arge, C. J. Henney and D. Odstrcil
Space Weather Volume 13, Issue 10 (pages 611–625) **2015**

Properties of the Fast Forward Shock Driven by the July 23 2012 Extreme Coronal Mass Ejection
Pete **Riley**, Ronald M. Caplan, Joe Giacalone, David Lario, Ying Liu
2015
http://arxiv.org/pdf/1510.06088v1.pdf

Short-term variability of the Sun-Earth system: an overview of progress made during the CAWSES-II period **Review**
Gopalswamy, Nat; Tsurutani, Bruce; Yan, Yihua
Progress in Earth and Planetary Science, Volume 2, article id. #13, 41 pp., **2015**
http://arxiv.org/pdf/1504.06332v1.pdf

Properties and Geoeffectiveness of Magnetic Clouds during Solar Cycles 23 and 24†
N. **Gopalswamy**, S. Yashiro1,2, H. Xie1,2, S. Akiyama1,2 and P. Mäkelä
JGR **2015**
http://arxiv.org/pdf/1510.00906v1.pdf

Did the July 2012 solar events cause a "tsunami" throughout the heliosphere, heliosheath, and into the interstellar medium?†
Devrie **Intriligator**1,*, Wei Sun1,2, Murray Dryer1, James Intriligator1,3, Charles Deehr2, Thomas Detman1 andWilliam R. Webbe
JGR Volume 120, Issue 10 Volume 120, Issue 10 Oct **2015**

Study of Solar Energetic Particle Associations with Coronal Extreme-ultraviolet Waves
Jinhye **Park**1, D. E. Innes2, R. Bucik2,3, Y.-J. Moon1,4, and S. W. Kahler
2015 ApJ 808 3
See presentation
https://community.apan.org/cfs-file.ashx/__key/telligent-evolution-components-attachments/13-7784-00-00-00-14-46-02/Park.pdf

Webb_ISEST (International Study for Earth-Affecting Solar Transients) _MM WG4 Campaign Events_2014, File
See http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_ICME%5CCME_Lists

Testing the estimated hypothetical response of a major CME impact on Earth and its implications to space weather
Ramkumar **Bala**, Patricia Reiff, C. T. Russell
JGR Volume 120, Issue 5 May **2015** Pages 3432–3443

Improvement on Mass Calculations of Solar CMEs
Xinghua **Dai**1,2, Huaning Wang1, Xin Huang1, Zhanle Du1, and Han He
2015 ApJ 801 39

Travel time classification of extreme solar events: Two families and an outlier
Freed, A. J.; Russell, C. T.
Geophysical Research Letters, Volume 41, Issue 19, pp. 6590-6594, **2014; File**

Interplanetary Propagation Behavior of the Fast Coronal Mass Ejection from 23 July 2012
Manuela **Temmer** and Nariaki Nitta
Solar Phys. **201**5
http://arxiv.org/pdf/1411.6559v1.pdf **File**

Global simulation of extremely fast coronal mass ejection on 23 July 2012
Kan **Liou**, Chin-Chun Wu, Murray Dryer, Shi-Tsan Wu, Nathan Rich, Simon Plunkett, Lynn Simpson, Craig D. Fry, Kevin Schenk
JASTP, Volume 121, Part A, December **2014**, Pages 32–41
http://www.sciencedirect.com/science/article/pii/S1364682614002247 **File**

Major Solar Eruptions and High Energy Particle Events during Solar Cycle 24
N. **Gopalswamy**, H. Xie, S. Akiyama, P. Makela, S. Yashiro
2014, Earth, Planets, and Space, **File**
http://arxiv.org/pdf/1408.3617v1.pdf

The magnitude and effects of extreme solar particle events
Piers **Jiggens***, Marc-Andre Chavy-Macdonald, Giovanni Santin, Alessandra Menicucci, Hugh Evans and Alain Hilgers
J. Space Weather Space Clim. 4 (**2014**) A20
http://www.swsc-journal.org/articles/swsc/pdf/2014/01/swsc130038.pdf

The Major Solar Eruptive Event in July 2012: Defining Extreme Space Weather Scenarios
Daniel **Baker**
Presentation at Space Weather Workshop in Boulder, April 8-11, **2014; File**
http://www.swpc.noaa.gov/sww/SWW_Agenda_w_attached_presentations.pdf

Observations of an extreme storm in interplanetary space caused by successive coronal mass ejections
Ying D. **Liu**, Janet G. Luhmann, Primož Kajdič, Emilia K.J. Kilpua, Noé Lugaz, Nariaki V. Nitta, Christian Möstl, Benoit Lavraud, Stuart D. Bale, Charles J. Farrugia & Antoinette B. Galvin
Nature Communications 5, Article number: 3481, **2014, File**
http://arxiv.org/pdf/1405.6088v1.pdf

Simulation of the 23 July 2012 extreme space weather event: What if this extremely rare CME was Earth directed?
Chigomezyo M. **Ngwira**, Antti Pulkkinen, M. Leila Mays, Maria M. Kuznetsova, A. B. Galvin, Kristin Simunac, Daniel N. Baker, Xinlin Li, Yihua Zheng and Alex Glocer
Space Weather, Volume 11, Issue 12, pages 671–679, December **2013**
http://onlinelibrary.wiley.com/doi/10.1002/2013SW000990/pdf
See presentation at 10th Europ. Space Weather Week
http://stce.be/esww10/contributions/public/talks/Session1/03-NgwiraChigomezyo/

A major solar eruptive event in July 2012: Defining extreme space weather scenarios
D. N. **Baker**, X. Li, A. Pulkkinen, C. M. Ngwira, M. L. Mays, A. B. Galvin and K. D. C. Simunac

Space Weather, Volume 11, Issue 10, pages 585–591, October **2013**
http://onlinelibrary.wiley.com/doi/10.1002/swe.20097/pdf

Hurricane Season in the Inner Heliosphere: Observations of Coronal Mass Ejections during Solar Maximum **Review**
A. **Vourlidas**
The 11th Hellenic Astronomical Conference, 8-12 September **2013**, Athens; **File of Presentation**
http://www.helas.gr/conf/2013/presentations.php

Apparent Solar Tornado - Like Prominences Другое событие: SDO 06:15 UT to 08:16 UT
Olga **Panasenco**, Sara F. Martin, Marco Velli
E-print, July **2013**, Solar Phys. Volume 289, Issue 2, pp.603-622, **2014**
http://arxiv.org/pdf/1307.2303v1.pdf

THE VERY UNUSUAL INTERPLANETARY CORONAL MASS EJECTION OF 2012 JULY 23: A BLAST WAVE MEDIATED BY SOLAR ENERGETIC PARTICLES
C. T. **Russell**1, R. A. Mewaldt2, J. G. Luhmann3, G. M. Mason4, T. T. von Rosenvinge5, C. M. S. Cohen2, R. A. Leske2, R. Gomez-Herrero6, A. Klassen7, A. B. Galvin8, and K. D. C. Simunac
2013 ApJ 770 38; **File**
http://iopscience.iop.org/0004-637X/770/1/38/pdf/apj_770_1_38.pdf

Soft X-ray Fluxes of Major Flares Far Behind the Limb as Estimated Using STEREO EUV Images
N. V. **Nitta**, M. J. Aschwanden, P. F. Boerner, S. L. Freeland, J. R. Lemen, J.-P. Wuelser
Solar Physics, May **2013, File**
http://arxiv.org/pdf/1304.4163v1.pdf

Energetic Particle and Other Space Weather Events of Solar Cycle 24 См. TABLE 1
N. **Gopalswamy**
E-print, Jan 2013, **File**; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, **2012**
http://arxiv.org/pdf/1208.3951v2.pdf

23-24 July
The Coronal Monsoon: Thermal Nonequilibrium Revealed by Periodic Coronal Rain
Frédéric **Auchère**1, Clara Froment2,3, Elie Soubrié1,4, Patrick Antolin5, Ramon Oliver4,6, andGabriel Pelouze1
2018 ApJ 853 176
http://sci-hub.tw/http://iopscience.iop.org/0004-637X/853/2/176/

Interplanetary Magnetic Flux Ropes as Agents Connecting Solar Eruptions and Geomagnetic Activities
K. **Marubashi**, K.-S. Cho, H. Ishibashi
Solar Physics December **2017**, 292:189
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1204-2.pdf

Understanding Problem Forecasts of ISEST Campaign Flare-CME Events
David **Webb**, Nariaki Nitta
Solar Physics October **2017**, 292:142 **File**

24 July
Revisiting the formation mechanism for coronal rain from previous studies
Leping **Li**, Hardi Peter, Lakshmi Pradeep Chitta, Hongqiang Song
Research in Astronomy and Astrophysics **2021**
https://arxiv.org/pdf/2107.01339.pdf

26 July

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. II. THE CASE FOR ABSENT FILAMENTS
T. A. **Howard**1, C. E. DeForest1, U. G. Schneck2, and C. R. Alden
2017 ApJ 834 86 DOI 10.3847/1538-4357/834/1/86
http://c.brightcove.com/article/10.3847/1538-4357/834/1/86/pdf
http://iopscience.iop.org.sci-hub.cc/0004-637X/834/1/86/

27 July – 17:31: M2.7 вспышка, **пересвет** на STEREO-B, B=22*2/294= 0,15

27 July, 17:26 - квазиимпульсная M2.7 вспышка (S18E62); активность вдоль большого, простирающеося к центру диска, волокна. A small and slow CME was observed after this event.

When do solar erupting hot magnetic flux ropes form?
A. **Nindos**, S. Patsourakos, A. Vourlidas, X. Cheng, J. Zhang
A&A **2020**
https://arxiv.org/pdf/2008.04380.pdf

Decimetric and metric digital solar radio spectrometers of the Yunnan Astronomical Observatories and the first-light results
G. **Gao**, M. Wanga, L. Donga, N. Wu, J. Lin
New Astron. Volume 30, July **2014**, Pages 68–78
http://www.sciencedirect.com/science/article/pii/S1384107614000153

Covert connection of filaments
Boris **Filippov**
MNRAS, **2015**
http://arxiv.org/pdf/1507.08180v1.pdf

28 July – 20:56: M6.1 вспышка, **пересвет** на STEREO-B, B=37*2/294= 0,25

28 July, 20:56 – квазиимпульсная M6.1/2N вспышка (S25E54)); активность вдоль большого, простирающеося к центру диска, волокна; partial halo CME.

Automatic detection of solar flares observed at 45 GHz by the POEMAS telescope
Vanessa **Lessa**, Adriana Valio
Astronomy and Computing, **2023**, Volume 44, 100738
https://arxiv.org/pdf/2309.06536.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

28-29 July

Three case studies of height-time profiles of prominence eruptions observed by AIA and LASCO
Ts **Tsvetkov** N.Petrov
Journal of Atmospheric and Solar-Terrestrial Physics
Volume 177, October 2018, Pages 29-37
http://sci-hub.tw/10.1016/j.jastp.2018.05.013

29 July – 06:26: M2.3 вспышка, **пересвет** на STEREO-B, B=16*2/294= 0,11

29 July, 06:22 – более длинная вспышка M2.3/1N (S22E49)

Light Bridges Can Suppress the Formation of Coronal Loops
Yuhu **Miao**, Libo Fu, Xian Du, Ding Yuan, Chaowei Jiang, Jiangtao Su, Mingyu Zhao, Sergey Anfinogentov
MNRAS **2021**
https://arxiv.org/pdf/2106.12833.pdf

Are chains of type I radio bursts generated by similar processes as drifting pulsation structures observed during solar flares?
Marian **Karlicky**
A&A **2017**
https://arxiv.org/pdf/1704.08532.pdf

FINE-SCALE STRUCTURES OF FLUX ROPES TRACKED BY ERUPTING MATERIAL
Ting **Li** and Jun Zhang
2013 ApJ 770 L25

30 July – 15:56: M1.1 вспышка, **пересвет** на STEREO-B, B=10*2/294= 0,07

30 July - 1 Aug

Improvements on coronal hole detection in SDO/AIA images using supervised classification
Martin A. **Reiss**, Stefan J. Hofmeister, Ruben De Visscher, Manuela Temmer, Astrid M. Veronig,Véronique Delouille, Benjamin Mampaey, Helmut Ahammer
Journal of Space Weather and Space Climate (SWSC), **2015**
http://arxiv.org/pdf/1506.06623v1.pdf
https://github.com/rubendv/ch_filament_classification

Modeling Active Region Transient Brightenings Observed with XRT as Multi-Stranded Loops
Adam R **Kobelski**, David E McKenzie, Martin Donachie
ApJ, **2014**
http://arxiv.org/pdf/1403.7834v1.pdf

31 July – 12:16: **C5.7 (а не M5.7) пересвет** B=10*2/294= 0,07 ←16s 8s→ 10/294=0.034

Connecting the Wilson depression to the magnetic field of sunspots
B. **Löptien**, A. Lagg, M. van Noort, S. K. Solanki
A&A **2020**
https://arxiv.org/pdf/2002.07484.pdf

2 Aug

Modern Faraday Rotation Studies to Probe the Solar Wind
Jason **Kooi**, David Wexler, Elizabeth Jensen, Megan Kenny, Teresa Nieves-Chinchilla, Lynn Wilson III, Brian Wood, Lan Jian, Shing Fung, Alexei Pevtsov, Nat Gopalswamy, and Ward Manchester
Front. Astron. Space Sci., 9:841866. **2022** |
https://doi.org/10.3389/fspas.2022.841866
https://www.frontiersin.org/articles/10.3389/fspas.2022.841866/full
https://www.frontiersin.org/articles/10.3389/fspas.2022.841866/pdf

Radio Observations of Coronal Mass Ejections: Space Weather Aspects **Review**
Angelos **Vourlidas** , Eoin P Carley and Nicole Vilmer
Front. Astron. Space Sci. **7**:43 **2020**
https://www.frontiersin.org/articles/10.3389/fspas.2020.00043/full
https://sci-hub.st/10.3389/fspas.2020.00043 **File**

VLA Measurements of Faraday Rotation through Coronal Mass Ejections
Jason E. **Kooi**, Patrick D. Fischer, Jacob J. Buffo, Steven R. Spangler
Solar Phys. **2016**
https://arxiv.org/pdf/1611.01445v1.pdf

2-6 Aug
Inferences About the Magnetic Field Structure of a CME with Both In Situ and Faraday Rotation Constraints
Brian E. **Wood**1, Samuel Tun-Beltran1, Jason E. Kooi2, Emil J. Polisensky2, and Teresa Nieves-Chinchilla3
2020 ApJ 896 99
https://sci-hub.tw/https://iopscience.iop.org/article/10.3847/1538-4357/ab93b8

3 Aug – 06:16: **C2.8 пересвет** B=6*2/294= 0,041 ←16s 8s→ 6/294=0.02
Сомнительный

3 Aug

The SDO/EVE Solar Irradiance Coronal Dimming Index Catalog. I. Methods and Algorithms
James Paul **Mason**1,2, Raphael Attie1, Charles N. Arge1, Barbara Thompson1, and Thomas N. Woods2
2019 ApJS 244 13
https://iopscience.iop.org/article/10.3847/1538-4365/ab380e/pdf

Can We Determine the Filament Chirality by the Filament Footpoint Location or the Barb-bearing?
Q. **Hao**, Y. Guo, C. Fang, P. F. Chen, W. Cao
RAA **2015**
http://arxiv.org/pdf/1506.08490v1.pdf

3-4 Aug
Solar Magnetic Flux Ropes **Review**
Boris **Filippov**, Olesya Martsenyuk, Abhishek K. Srivastava, and Wahab Uddin
Journal of Astrophysics & Astronomy, 2015
http://arxiv.org/ftp/arxiv/papers/1501/1501.02562.pdf

4 Aug - a very long duration C3.5 event beginning just after 11h and peaking at 15:00 UTC. Its source was a large filament eruption in the southeast quadrant from about 40 degrees east to the central meridian and from near the equator in the north to ARs 11539 and 11538 in the south. The event was associated with a full halo asymmetric CME.
Само волокно осталось, и развилась аркада над ним.

Covert connection of filaments
Boris **Filippov**
MNRAS, **2015**
http://arxiv.org/pdf/1507.08180v1.pdf

Confined Partial Filament Eruption and its Reformation within a Stable Magnetic Flux Rope
Navin Chandra **Joshi**, Abhishek K. Srivastava, Boris Filippov, Pradeep Kayshap, Wahab Uddin, Ramesh Chandra, Debi Prasad Choudhary, and B. N. Dwivedi
2014 ApJ 787 11

Fast Magnetic Twister and Plasma Perturbations in a 3-D Coronal Arcade
K. **Murawski**, A.K. Srivastava, Z. E. Musielak
2014
http://arxiv.org/pdf/1404.4176v1.pdf

FINE-SCALE STRUCTURES OF FLUX ROPES TRACKED BY ERUPTING MATERIAL
Ting **Li** and Jun Zhang
2013 ApJ 770 L25

Fine-scale Structures of Flux Ropes Tracked by Erupting Material
Ting **Li** & Jun Zhang
E-print, May **2013**, A&A

4-5 Aug
Magnetic Flux Cancelation as the Origin of Solar Quiet Region Pre-Jet Minifilaments
Navdeep K. **Panesar**, Alphonse C. Sterling, Ronald L. Moore
ApJ **2017**
https://arxiv.org/pdf/1706.09079.pdf

4-6 Aug
Understanding the plasma and magnetic field evolution of a filament using observations and Nonlinear force-free field modelling
Stephanie L. **Yardley**, Antonia Savcheva, Lucie M. Green, Lidia van Driel-Gesztelyi, David Long, David R. Williams, Duncan H. Mackay
ApJ **2019**
https://arxiv.org/pdf/1911.01314.pdf

5 Aug
Real-time solar wind prediction based on SDO/AIA coronal hole data
T. **Rotter** (1), A.M. Veronig (1), M. Temmer (1), B. Vrsnak
Solar Phys. **2015**
http://arxiv.org/pdf/1501.06697v1.pdf

6 Aug – 04:36: M1.6 вспышка, **пересвет** на STEREO-B, B=32*2/291=0,22
08:16 C6.3 **пересвет** B=11,5*2/291=0,08 ←16s 8s→ B=11,5*2/291=0,08
6 Aug – Три **очень импульсные** прилимбовые рентгеновские вспышки **Gamma**

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE **Thesis Catalog (2010-2017)**
Allafort, A. J.
(**2018**). PhD thesis, Stanford Univ. **File**
https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

6-8 Aug Filament eruption

Synoptic solar observations of the Solar Flare Telescope focusing on space weather
Yoichiro **Hanaoka**, Takashi Sakurai, Ken'ichi Otsuji, Isao Suzuki, Satoshi Morita

Journal of Space Weather and Space Climate **2020**
https://arxiv.org/pdf/2007.14054.pdf

7-8 Aug

Prominence instability and CMEs triggered by massive coronal rain in the solar atmosphere
Z. **Vashalomidze** (1, 2 and 3), T. V. Zaqarashvili (1, 2 and 3), V. Kukhianidze (2 and 3), G. Ramishvili (2 and 3), A. Hanslmeier (1), P. Gomory (4)
A&A **2021**
https://arxiv.org/pdf/2110.01287.pdf

8 Aug

Decameter U-burst Harmonic Pair from a High Loop
Dorovskyy, Melnik, Konovalenko, Bubnov , Gridin, Shevchuk, Rucker, Poedts and Panchenko
CESRA highlight **2016** p.692
http://www.astro.gla.ac.uk/users/eduard/cesra/?p=692

Konus-Wind and Helicon-Coronas-F Observations of Solar Flares
V. D. **Pal'shin**, Yu. E. Charikov, R. L. Aptekar, S. V. Golenetskii, A. A. Kokomov, D. S. Svinkin, Z. Ya. Sokolova, M. V. Ulanov, D. D. Frederiks, A. E. Tsvetkova
Ge&Ae, 54, 943 (**2014**)
http://arxiv.org/pdf/1412.2015v1.pdf

Decameter U-burst Harmonic Pair from a High Loop
V. V. **Dorovskyy**, V. N. Melnik, A. A. Konovalenko, I. N. Bubnov, A. A. Gridin, N. V. Shevchuk, H. O. Rucker, S. Poedts, M. Panchenko
Solar Phys., January **2015**, Volume 290, Issue 1, pp 181-192

10 Aug

The Properties of Solar Energetic Particle Event-Associated Coronal Mass Ejections Reported in Different CME Catalogs
Ian G. **Richardson**, Tycho T. von Rosenvinge, Hilary V. Cane
Solar Phys. Volume 290, Issue 6, pp 1741-1759 **2015 File**
http://arxiv.org/pdf/1505.03071v1.pdf
https://sci-hub.ru/10.1007/s11207-015-0701-4

11 Aug – 12:26: M1.0 вспышка, **пересвет** на STEREO-A, A=9*2/291=0,08 (**W38, а не 30**)

11 Aug, >12 UT: эрупция над южной частью длинного SW волокна с последующим (~17 UT) продолжением вдоль канала к ЦМ без крупного CME

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics
Markus J. **Aschwanden**
ApJ **2016**
http://arxiv.org/pdf/1605.04952v1.pdf **File**
http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

12 Aug

Electric Currents through J-shaped and Non-J-shaped Flare Ribbons
Yuwei **He**, Rui Liu, Lijuan Liu, Jun Chen, Wensi Wang, Yuming Wang
ApJ **2020**
https://arxiv.org/pdf/2007.05693.pdf

Radio Noise Storms and the Connection with the Reorganization of Photospheric Magnetic Fields
Z. A. L. **Sodré**, F. C. R. Fernandes, J. C. Santos, C. M. Wrasse
Solar Physics October **2019**, 294:140
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1534-3.pdf

Identification of Low Coronal Sources of "Stealth" Coronal Mass Ejections Using New Image Processing Techniques
Nathalia **Alzate** and Huw Morgan
2017 ApJ 840 103
http://sci-hub.cc/10.3847/1538-4357/aa6caa

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

13 Aug

Bipolar Ephemeral Active Regions, Magnetic Flux Cancellation, and Solar Magnetic Explosions
Ronald L. **Moore**1,2, Navdeep K. Panesar3,4, Alphonse C. Sterling2, and Sanjiv K. Tiwari3,4
2022 ApJ 933 12
https://iopscience.iop.org/article/10.3847/1538-4357/ac6181/pdf

Mingantu Spectral Radioheliograph for Solar and Space Weather Studies
Yihua **Yan**, Zhijun Chen, Wei Wang, Fei Liu, Lihong Geng, Linjie Chen, Chengming Tan, Xingyao Chen, Cang Su, and Baolin Tan
Front. Astron. Space Sci., 29 March **2021** |
https://doi.org/10.3389/fspas.2021.584043
https://www.frontiersin.org/articles/10.3389/fspas.2021.584043/full

14 Aug
Coronal upflows from edges of an active region observed with EUV Imaging Spectrometer onboard Hinode
Naomasa **Kitagawa**
PhD thesis, **2014**
http://arxiv.org/pdf/1411.4742v1.pdf

15 Aug

Cold Solar Flares. I. Microwave Domain
Alexandra L. **Lysenko**1, Stephen M. White2, Dmitry A. Zhdanov3, Nataliia S. Meshalkina3, Aleksander T. Altyntsev3, Galina G. Motorina1,4,5, and Gregory D. Fleishman6,7
2023 ApJ 954 122
https://iopscience.iop.org/article/10.3847/1538-4357/acea20/pdf

CMEchaser, Detecting Line-of-Sight Occultations Due to Coronal Mass Ejections
Golam **Shaifullah**, Caterina Tiburzi & Pietro Zucca
Solar Physics volume 295, Article number: 136 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01705-0.pdf

16 Aug
Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans

2014
http://arxiv.org/pdf/1409.1422v1.pdf

Relationship Between Solar Coronal X-Ray Brightness and Active Region Magnetic Fields: A Study Using High Resolution Observations
Soumitra **Hazra**, Dibyendu Nandy, B Ravindra
2014
http://arxiv.org/pdf/1406.1683v1.pdf

17 Aug – 13:21: M2.4 вспышка, **пересвет** на STEREO-B, B=10*2/290=0,17
17:26: M1.0 вспышка, **пересвет** на STEREO-B, B=25*2/290=0,07

17 Aug
How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations
A. **Nindos**, S. Patsourakos, A. Vourlidas, C. Tagikas
ApJ **2015**
http://arxiv.org/pdf/1507.03766v1.pdf

18 Aug – 01:01: M5.5 вспышка, **пересвет** на STEREO-B, B=28*2/289=0,19
03:26: M1.8 вспышка, **пересвет** на STEREO-B, B=21*2/289=0,15
14:26: **C7.3** вспышка, **пересвет** на STEREO-B, B=8*2/289= 0,055
16:16: M2.0 **пересвет** B=23*2/289=0,16 ←16s 8s→ 16:05 B=19*2/289=0,131
19:16: **C2.5** вспышка, **пересвет** на STEREO-B, B=7,5*2/289= 0,052
22:56: M1.0 вспышка, **пересвет** на STEREO-B, B=23*2/289=0,16
23:26: M1.3 вспышка, **пересвет** на STEREO-B, B=15*2/289=0,10

18 Aug
Pre-flare coronal jet and evolutionary phases of a solar eruptive prominence associated with M1.8 flare: SDO and RHESSI observations
Bhuwan **Joshi** (USO/PRL, India), Upendra Kushwaha (USO/PRL, India), Astrid Veronig (University of Graz, Austria), Kyung-Suk Cho (KASI, South Korea)
ApJ **2016**
https://arxiv.org/pdf/1611.03629v1.pdf

Sources of Quasi-Periodic Pulses in the 18 August 2012 Flare
A. **Altyntsev**, N. Meshalkina, H. Meszarosova, M. Karlicky, V. Palshin, S. Lesovoi
Solar Physics, **2016**
http://arxiv.org/pdf/1601.02332v1.pdf

19 Aug залимбовый пересвет 20:16 ←16s 8s→ A=76/312=0.24
Рядом меньше

19 Aug
Solar type III bursts with high-frequency cut-off
A.A. **Stanislavsky**
Astronomische Nachrichten, vol. 338, issue 4, pp. 407-412, **2017**
https://arxiv.org/pdf/1812.07294.pdf

20 Aug
CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. II. THE CASE FOR ABSENT FILAMENTS
T. A. **Howard**1, C. E. DeForest1, U. G. Schneck2, and C. R. Alden

2017 ApJ 834 86 DOI 10.3847/1538-4357/834/1/86
http://c.brightcove.com/article/10.3847/1538-4357/834/1/86/pdf
http://iopscience.iop.org.sci-hub.cc/0004-637X/834/1/86/

21 Aug залимбовый пересвет 20:16 ←16s 8s→ B=82/289=0.28
20:11 B=41*2/289=0.28

22 Aug

Statistical Analysis and Catalog of Non-polar Coronal Holes Covering the SDO-Era Using CATCH

Stephan G. **Heinemann**, Temmer Manuela, Heinemann Niko, Dissauer Karin, Samara Evangelia, Jerčić Veronika, Stefan J. Hofmeister, Astrid M Veronig
Solar Phys. 294:144 **2019**
https://arxiv.org/pdf/1907.01990.pdf **File**
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1539-y.pdf

23 Aug

Difference of source regions between fast and slow coronal mass ejections
B. **Filippov**
PASAustralia **2019**
https://arxiv.org/pdf/1904.04060.pdf

25 Aug

Decameter Type III Bursts with Changing Frequency Drift-Rate Signs
V. N. **Melnik**, A. I. Brazhenko, A. A. Konovalenko, C. Briand, V. V. Dorovskyy, P. Zarka, A. V. Frantsuzenko, H. O. Rucker, B. P. Rutkevych, M. Panchenko, … show all 13
Solar Phys., **2015**, Volume 290, Issue 1, pp 193-203
See **CESRA highlight** #913 **2016** http://www.astro.gla.ac.uk/users/eduard/cesra/?p=913

25-26 Aug

Decameter Type III Bursts with Changing Frequency Drift-Rate Signs
V.N.**Melnik**, A.I.Brazhenko, A.A.Konovalenko, C.Briand, V.V.Dorovskyy, P.Zarka, A.V.Frantsuzenko, H.O.Rucker, B.P.Rutkevych, M.Panchenko, L.Denis,T.Zaqarashvili, B.Shergelashvili
Solar phys. **2018**
https://arxiv.org/ftp/arxiv/papers/1802/1802.08336.pdf

29 Aug - 2 Sept

A Prospective New Diagnostic Technique for Distinguishing Eruptive and Non-Eruptive Active Regions
P. **Pagano**, D.H. Mackay, S.L. Yardley
ApJ ? **2019**
https://arxiv.org/pdf/1908.09223.pdf

30 Aug – 12:16: M1.3 **пересвет** B=34,5*2/287=0,24 ←16s 8s→ 12:11 B=22*2/287=0,153

30 Aug

VLA Measurements of Faraday Rotation through Coronal Mass Ejections
Jason E. **Kooi**, Patrick D. Fischer, Jacob J. Buffo, Steven R. Spangler
Solar Phys. **2016**
https://arxiv.org/pdf/1611.01445v1.pdf

31 Aug, **>19 UT – впечатляющая эрупция SE волокна** (в AO?) с C8 LDE вспышкой; Позднее еще одна эрупция из этого же источника с заметным трансэкваториальным **поглощением на 304 А** в северном направлении, **гало CME, длительные мягкие протоны.**

Evolution of Solar Eruptive Events: Investigating the Relationships among Magnetic Reconnection, Flare Energy Release, and Coronal Mass Ejections
Juliana T. **Vievering**1, Angelos Vourlidas1, Chunming Zhu2, Jiong Qiu2, and Lindsay Glesener3
2023 ApJ 946 81
https://iopscience.iop.org/article/10.3847/1538-4357/acbe3d/pdf

Filament Leg--Leg Reconnection as a Source of Prominent Supra-Arcade Downflows
Jaroslav **Dudik**, Guillaume Aulanier, Jana Kasparova, Marian Karlicky, Alena Zemanova, Juraj Lorincik, Miloslav Druckmuller
ApJL **2022**
https://arxiv.org/pdf/2209.00306.pdf

Magnetic Imaging of the Outer Solar Atmosphere (MImOSA): Unlocking the driver of the dynamics in the upper solar atmosphere **Review**
H. **Peter**, E. Alsina Ballester, V. Andretta, F. Auchere, L. Belluzzi, A. Bemporad, D. Berghmans, E. Buchlin, A. Calcines, L.P. Chitta, K. Dalmasse, T. del Pino Aleman, A. Feller, C. Froment, R. Harrison, M. Janvier, S. Matthews, S. Parenti, D. Przybylski, S.K. Solanki, J. Stepan, L. Teriaca, J. Trujillo Bueno
Experimental Astronomy (on 28. Jul. 2020). **2021**
Based on a proposal submitted in response to a call for white papers in the Voyage 2050 long-term plan in the ESA science programme.
https://arxiv.org/pdf/2101.01566.pdf

Automated Detection of Accelerating Solar Eruptions using Parabolic Hough Transform
Ritesh **Patel**, Vaibhav Pant, Priyanka Iyer, Dipankar Banerjee, Marilena Mierla, Matthew J. West
Solar Phys. **2020**
https://arxiv.org/pdf/2010.14786.pdf

Statistical characteristics on SEPs, radio-loud CMEs, low frequency type II and type III radio bursts associated with impulsive and gradual flares
P. Pappa **Kalaivani**, A. Shanmugaraju, O. Prakash, R.-S. Kim
Earth Moon and Planets, [104, 295 ?] (**2020**)
https://arxiv.org/pdf/2007.05726.pdf
https://sci-hub.tw/https://link.springer.com/article/10.1007/s11038-020-09533-9

Initiation and Early Kinematic Evolution of Solar Eruptions
X. **Cheng**, J. Zhang, B. Kliem, T. {Török}, C. Xing, Z. J. Zhou, B. Inhester, M. D. Ding
ApJ **2020**
https://arxiv.org/pdf/2004.03790.pdf

Solar Energetic Particles Observed by the STEREO Spacecraft During Solar Cycle 24
I. G. **Richardson**
Presentation at the Fleishman's Webinar, 22 May **2019**
http://www.ioffe.ru/LEA/SF_AR/files/Richardson2019.pdf
February 12, 2000, August 14, 2010 , 18 Aug 2010, 4 Aug 2011, Nov. 3, 2011 , 31 Aug 2012, January 22 and February 12, 2018, May 3, 2018

Manifestations of three dimensional magnetic reconnection in an eruption of a quiescent filament: \\ Filament strands turning to flare loops
Juraj **Lorincik**, Jaroslav Dudik, Guillaume Aulanier
ApJ **2019**
https://arxiv.org/pdf/1909.03825.pdf

Solar Filament Eruptions as Precursors to Flare–CME Events: Establishing the Temporal Connection

Suvadip **Sinha**1, Nandita Srivastava1,2, and Dibyendu Nandy1,3
2019 ApJ 880 84
sci-hub.se/10.3847/1538-4357/ab2239

Velocities of flare kernels and the mapping norm of field line connectivity
Juraj **Lörinčík**, Guillaume Aulanier, Jaroslav Dudík, Alena Zemanová, Elena Dzifčáková
ApJ **2019**
https://arxiv.org/pdf/1906.01880.pdf

Abundances, Ionization States, Temperatures, and FIP in Solar Energetic Particles
Donald V. **Reames**
Space Sci. Rev **2017**
https://arxiv.org/ftp/arxiv/papers/1709/1709.00741.pdf

Origin of Radio Enhancements in Type II Bursts in the Outer Corona
Firas **Al-Hamadani**, Silja Pohjolainen, Eino Valtonen
Solar Physics September **2017**, 292:127
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1148-6.pdf

Testing the current paradigm for space weather prediction with heliospheric imagers
Luke A. **Barnard**, Curt A. de Koning, Christopher J. Scott, Mathew J. Owens, Julia Wilkinson, Jackie A. Davies
Space Weather Volume 15, Issue 6 June **2017** Pages 782–803
http://onlinelibrary.wiley.com/doi/10.1002/2017SW001609/full
http://sci-hub.cc/10.1002/2017SW001609

On the Spatial Distribution of Element Abundances and Ionization States in Solar Energetic-Particle Events
Donald V. **Reames**
Solar Phys. **2017**
https://arxiv.org/pdf/1705.07471.pdf

Time Evolution of Elemental Ratios in Solar Energetic Particle events
P. **Zelina**, S. Dalla, C. M. S. Cohen, R. A. Mewaldt
ApJ **2016**
https://arxiv.org/pdf/1612.00758v1.pdf

Imaging Prominence Eruptions Out to 1 AU
Brian E. **Wood**, Russell A. Howard, Mark G. Linton
ApJ **201**5
http://arxiv.org/pdf/1512.06748v1.pdf

Study of Solar Energetic Particle Associations with Coronal Extreme-ultraviolet Waves
Jinhye **Park**1, D. E. Innes2, R. Bucik2,3, Y.-J. Moon1,4, and S. W. Kahler
2015 ApJ 808 3 **File**
https://www.academia.edu/35052617/STUDY_OF_SOLAR_ENERGETIC_PARTICLE_ASSOCIATIONS_WITH_CORONAL_EXTREME-ULTRAVIOLET_WAVES?email_work_card=view-paper

Estimating the Height of CMEs Associated with a Major SEP Event at the Onset of the Metric Type II Radio Burst during Solar Cycles 23 and 24
P. **Mäkelä**, N. Gopalswamy, S. Akiyama, H. Xie, and S. Yashiro
ApJ **2015**
http://cdaw.gsfc.nasa.gov/publications/makela/makela2015ApJ.pdf

Empirical Relationship Between CME Parameters and Geo-effectiveness of Halo CMEs in the Rising Phase of Solar Cycle 24 (2011 – 2013)

A. **Shanmugaraju**, M. Syed Ibrahim, Y.-J. Moon, A. Mujiber Rahman, S. Umapathy
Solar Phys. **2015; File**

Statistical survey of widely spread out solar electron events observed with STEREO and ACE with special attention to anisotropies
N. **Dresing**, R. G?mez-Herrero, B. Heber, A. Klassen, O. Malandraki , W. Dr?ge , and Y. Kartavykh
E-print, July 2014; A&A, Volume 567, A27, July **2014; File**

Multi-scale Gaussian normalization for solar image processing
Huw **Morgan**, Miloslav Druckmuller
Solar Phys., 2014
http://arxiv.org/pdf/1403.6613v1.pdf

1 September

Forecasting the Remaining Duration of an Ongoing Solar Flare
Jeffrey W. **Reep**, Will T. Barnes
Space Weather **2021**
https://arxiv.org/pdf/2103.03957.pdf

Ensemble CME Modeling Constrained by Heliospheric Imager Observations
L. **Barnard** , M. J. Owens , C. J. Scott , C. A. de Koning
AGU Advances Volume1, Issue3 September **2020** e2020AV000214
https://doi.org/10.1029/2020AV000214
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020AV000214

A New Space Weather Tool for Identifying Eruptive Active Regions
P. **Pagano**, D. H. Mackay, S. L. Yardley
ApJ **2019**
https://arxiv.org/pdf/1910.04226.pdf

Automated detection of coronal mass ejections in three-dimensions using multi-viewpoint observations
J. **Hutton** and H. Morgan
A&A 599, A68 (**2017**)
http://www.aanda.org/articles/aa/pdf/2017/03/aa29516-16.pdf

2 Sept, 01:30 – небольшая центральная эрупция, возможно, волоконная , <05 UT - A full faint halo CME
~09 – поглощение на 304 A из области центральной эрупции.

Degree of electric current neutralization and the activity in solar Active Regions
P. **Vemareddy**
MNRAS **2019**
https://arxiv.org/pdf/1904.02648.pdf

Solar sources of interplanetary magnetic clouds leading to helicity prediction
Roger K. **Ulrich**, Pete Riley, T. Tran
Space Weather **2018**
https://arxiv.org/ftp/arxiv/papers/1811/1811.03560.pdf

Observations of Photospheric Vortical Motions During the Early Stage of Filament Eruption
Sajal Kumar **Dhara**, B. Ravindra, Ravinder Kumar Banyal
Solar Phys. **2014**

http://arxiv.org/pdf/1410.3592v1.pdf

Time evolution of plasma parameters during the rise of a prominence instability
D. **Orozco Suárez**, J. A. Díaz, A. Asensio Ramos, J. Trujillo Bueno
ApJL, **2014**
http://arxiv.org/pdf/1403.5640v1.pdf

3 Sept - Геомагнитная буря от эрупции 31-ого, Dst~51 nT, Форбуш

Characteristics of ephemeral coronal holes
Andrew R. **Inglis**, Rachel E. O'Connor, W. Dean Pesnell, Michael S. Kirk, Nishu Karna
ApJ **2019**
https://arxiv.org/pdf/1906.01757.pdf

4 Sept

Ensemble CME Modeling Constrained by Heliospheric Imager Observations
L. **Barnard** , M. J. Owens , C. J. Scott , C. A. de Koning
AGU Advances Volume1, Issue3 September **2020** e2020AV000214
https://doi.org/10.1029/2020AV000214
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020AV000214

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

5 Sept - Еще одна геомагнитная буря от эрупции 2-ого, Dst~51 nT, Форбуш

6 Sept – 04:16: M1.6 пе**ресвет** A=33*2/310=0,21 ←16s 8s→ A=33/310=0,106

6 Sept

Яркие ультрафиолетовые узлы как возможные источники когерентного микроволнового излучения.
Мешалкина Н.С., Алтынцев А.Т.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 9 № 4 , **2023**, С. 21–29.
https://naukaru.ru/ru/storage/viewWindow/138047

Three-Year Global Survey of Coronal Null Points from Potential-Field-Source-Surface (PFSS) Modeling and Solar Dynamics Observatory (SDO) Observations
Michael **Freed**, Dana Longcope, David McKenize
Solar Physics, **2014**
http://arxiv.org/pdf/1410.4493v1.pdf

7 Sept
Modeling of Hot Plasma in the Solar Active Region Core
M. **Asgari-Targhi**1, J. T. Schmelz2, S. Imada3, S. Pathak2, and G. M. Christian
2015 ApJ 807 146

Observations of Photospheric Vortical Motions During the Early Stage of Filament Eruption
Sajal Kumar **Dhara**, B. Ravindra, Ravinder Kumar Banyal

Solar Phys. **2014**
http://arxiv.org/pdf/1410.3592v1.pdf

Comparison of Extreme Ultraviolet Imaging Spectrometer Observations of Solar Coronal Loops with Alfvén Wave Turbulence Models
M. **Asgari-Targhi**, A. A. van Ballegooijen, and S. Imada
2014 ApJ 786 28

8 Sept – 18:16: M1.4 **пересвет** A=20*2/310=0,13 ←16s 8s→ **18:11** A=12,5*2/310=0,081

9 Sept – 22:16: M1.2 **пересвет** A=29*2/310=0,19 ←16s 8s→ **22:51** A=19*2/310=0,123

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics
Markus J. Aschwanden
ApJ 2016
http://arxiv.org/pdf/1605.04952v1.pdf File
http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

10 Sept

Forecasting SYM-H Index: A Comparison Between Long Short-Term Memory and Convolutional Neural Networks
F. **Siciliano** , G. Consolini , R. Tozzi , M. Gentili , F. Giannattasio, P. De Michelis
Space Weather e2020SW002589 **2020**
https://doi.org/10.1029/2020SW002589
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002589

The depth and the vertical extent of the energy deposition layer in a medium-class solar flare
Krzysztof **Radziszewski**, Robert Falewicz, Pawel Rudawy
ApJ **2020**
https://arxiv.org/pdf/2009.06064.pdf

Investigating the differential emission measure and energetics of microflares with combined SDO/AIA and RHESSI observations
A. R. **Inglis**, S. Christe
2014, ApJ
http://arxiv.org/pdf/1405.5262v1.pdf

11 September
Observational detection of drift velocity between ionized and neutral species in solar prominences
Elena **Khomenko**, Manuel Collados, Antonio J. Diaz
ApJ **2016**
http://arxiv.org/pdf/1604.01177v1.pdf

11-12 Sep
Emerging Dimming as Coronal Heating Episodes
Anna V. **Payne**, Xudong Sun
ApJ **2021**
https://arxiv.org/pdf/2103.09087.pdf

12 September

13 Sept, ~06:30 – Эрупция небольшого NW волокна, обширное расширяющееся поглощение на 304 А, приличный CME

15 Sept

Investigating the differential emission measure and energetics of microflares with combined SDO/AIA and RHESSI observations
A. R. **Inglis**, S. Christe
2014, ApJ
http://arxiv.org/pdf/1405.5262v1.pdf

16 Sept

Three-Year Global Survey of Coronal Null Points from Potential-Field-Source-Surface (PFSS) Modeling and Solar Dynamics Observatory (SDO) Observations
Michael **Freed**, Dana Longcope, David McKenize
Solar Physics, **2014**
http://arxiv.org/pdf/1410.4493v1.pdf

18 September

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

19 September

Magnetic Flux Cancelation as the Origin of Solar Quiet Region Pre-Jet Minifilaments
Navdeep K. **Panesar**, Alphonse C. Sterling, Ronald L. Moore
ApJ **2017**
https://arxiv.org/pdf/1706.09079.pdf

20 Sept

Reconstruction of the magnetic connection from Mercury to the solar corona during enhancements in the solar proton fluxes at Mercury
A. **Ippolito**1,2, C. Plainaki1, G. Zimbardo3, T. Alberti4, S. Massetti4, A. Milillo4 and S. Orsini4
A&A 660, A50 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/04/aa42328-21.pdf

A Simple Way to Estimate the Soft X-ray Class of Far-Side Solar Flares Observed with STEREO/EUVI
I.M. Chertok (1), A.V. Belov (1), V.V. Grechnev (2)
Solar Phys. 2015

Soft X-ray Fluxes of Major Flares Far Behind the Limb as Estimated Using STEREO EUV Images
N. V. **Nitta**, M. J. Aschwanden, P. F. Boerner, S. L. Freeland, J. R. Lemen, J.-P. Wuelser
Solar Physics, May **2013, File**

20-21 September

Negative flare in the He I 10830 Å line in facula
Nikolai **Kobanov**, Andrei Chelpanov, Vasiliy Pulyaev
2017
https://arxiv.org/pdf/1712.10117.pdf

Magnetic Flux Cancellation as the Trigger of Solar Quiet-Region Coronal Jets
Navdeep K. **Panesar**, Alphonse C. Sterling, Ronald L. Moore, Prithi Chakrapani
ApJL **2016**
https://arxiv.org/pdf/1610.08540v1.pdf **File**

21 Sept

Using Flare-Induced Modulation of Three- and Five-Minute Oscillations for Studying Wave Propagation in the Solar Atmosphere
Andrei **Chelpanov**, Nikolai Kobanov
ApJ **2021**
https://arxiv.org/pdf/2110.12732.pdf

Onset of the Magnetic Explosion in Solar Coronal Jets in Quiet Regions on the Central Disk
Navdeep K. **Panesar**, Ronald L. Moore, Alphonse C. Sterling
ApJ **2020**
https://arxiv.org/pdf/2006.04253.pdf

Oscillations Accompanying a He I 10830 Å Negative Flare in a Solar Facula II. Response of the Transition Region and Corona
Nikolai **Kobanov**, Andrei Chelpanov
2019 *Solar Physics* **volume 294**, Article number: 58
https://arxiv.org/pdf/1904.11142.pdf
https://link.springer.com/content/pdf/10.1007/s11207-019-1449-z.pdf

Oscillations accompanying a He I 10830 Å negative flare in a solar facula
Andrei **Chelpanov**, Nikolai Kobanov
2018
https://arxiv.org/pdf/1810.10153.pdf

22 Sept
Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

23 Sept - long duration C1.7 event peaking at 15:56 UTC and was associated with a large filament eruption (and CME) behind the east limb.

Study of Interplanetary and Geomagnetic Response of Filament Associated CMEs
Kunjal **Dave**, Wageesh Mishra, Nandita Srivastava, R. M. Jadhav
Proceedings IAU Symposium No. 340, **2018**
https://arxiv.org/pdf/1807.00809.pdf

Apparent and Intrinsic Evolution of Active Region Upflows
Deborah **Baker**, Miho Janvier, Pascal Démoulin, Cristina H. Mandrini
Solar Physics April **2017**, 292:46
http://link.springer.com/article/10.1007/s11207-017-1072-9

25 Sept
Using Forbush decreases to derive the transit time of ICMEs propagating from 1 AU to Mars

Johan L. Freiherr **von Forstner,** Jingnan Guo, Robert F. Wimmer-Schweingruber, Donald M. Hassler, Manuela Temmer, Mateja Dumbović, Lan K. Jian, Jan K. Appel, Jaša Čalogović, Bent Ehresmann, Bernd Heber, Henning Lohf, Arik Posner, Christian T. Steigies, Bojan Vršnak, Cary J. Zeitlin
JGR **2017**
https://arxiv.org/pdf/1712.07301.pdf

Anti-phase oscillations of Hα line Doppler velocity and width in solar limb spicules
D. **Khutsishvili** , T. V. Zaqarashvili, E. Khutsishvili, T. Kvernadze, V. Kulidzanishvili, V. Kakhiani, M. Sikharulidze
Astrophysics and Space Science December **2017**, 362:235
https://link.springer.com/content/pdf/10.1007%2Fs10509-017-3213-x.pdf

On Sun-to-Earth Propagation of Coronal Mass Ejections: 2. Slow Events and Comparison with Others
Ying D. **Liu**, Huidong Hu, Chi Wang, Janet G. Luhmann, John D. Richardson, Zhongwei Yang, Rui Wang
ApJ Supplement **2016**
http://arxiv.org/pdf/1512.07949v1.pdf

Kinematics of Interacting CMEs of September 25 and 28, 2012
Wageesh **Mishra**, Nandita Srivastava, Talwinder Singh
JGR **201**5
http://arxiv.org/pdf/1511.06970v1.pdf

Sun-to-Earth Characteristics of Two Coronal Mass Ejections Interacting near 1 AU: Formation of a Complex Ejecta and Generation of a Two-Step Geomagnetic Storm
Ying D. **Liu**, Zhongwei Yang, Rui Wang, Janet G. Luhmann, John D. Richardson, Noé Lugaz
ApJL, **2014**
http://arxiv.org/pdf/1409.2954v1.pdf

Relationship Between Solar Coronal X-Ray Brightness and Active Region Magnetic Fields: A Study Using High Resolution Observations
Soumitra **Hazra**, Dibyendu Nandy, B Ravindra
2014
http://arxiv.org/pdf/1406.1683v1.pdf

25-28 September
Assessing the collision nature of coronal mass ejections in the inner heliosphere
Wageesh **Mishra**, Yuming Wang, Nandita Srivastava, Chenglong Shen
ApJ Supplement Series **2017**
https://arxiv.org/pdf/1707.08299.pdf

27 Sept **FARSIDE EXPLOSION:** A sunspot on the farside of the sun exploded on Sept. 27th, sparking a bright flare of extreme ultraviolet radiation and hurling a massive CME into space. Although the explosion occurred on the other side of the sun, it was visible on cell phones around Earth.

Examining the Source Regions of Solar Energetic Particles Using an AI-generated Synchronic Potential Field Source Surface Model
Jinhye **Park**1, Hyun-Jin Jeong1, and Yong-Jae Moon1,2
2023 ApJ 953 159
https://iopscience.iop.org/article/10.3847/1538-4357/acdd00/pdf

Generation of interplanetary type II radio emission
I. C. **Jebaraj**1,2, A. Kouloumvakos3, J. Magdalenic1,2, A. P. Rouillard3, G. Mann4, V. Krupar5,6 and S. Poedts2,7

A&A 654, A64 (**2021**)
https://www.aanda.org/articles/aa/pdf/2021/10/aa41695-21.pdf
https://doi.org/10.1051/0004-6361/202141695

Pre-eruption Splitting of the Double-Decker Structure in a Solar Filament
Hanya **Pan**, Rui Liu, Tingyu Gou, Bernhard Kliem, Yingna Su, Jun Chen, Yuming Wang
ApJ **2021**
https://arxiv.org/pdf/2101.03296.pdf

Using radio triangulation to understand the origin of two subsequent type II radio bursts
Immanuel Christopher **Jebaraj**, Jasmina Magdalenic, Tatiana Podladchikova, Camilla Scolini, Jens Pomoell, Astrid Veronig, Karin Dissauer, Vratislav Krupar, Emilia Kilpua, Stefaan Poedts
A&A **2020**
https://arxiv.org/pdf/2006.04586.pdf

Spectroscopy and Differential Emission Measure diagnostics of a coronal dimming associated with a fast halo CME
Astrid M. **Veronig**, Peter Gömöry, Karin Dissauer, Manuela Temmer, Kamalam Vanninathan
ApJ **2019**
https://arxiv.org/pdf/1906.01517.pdf

Exploring the potential of microwave diagnostics in SEP forecasting: The occurrence of SEP events
Pietro **Zucca**, Marlon Núñez and Karl-Ludwig Klein
J. Space Weather Space Clim., 7, A13 (**2017**)
https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170001.pdf

Predicting the magnetic vectors within coronal mass ejections arriving at Earth: 2. Geomagnetic response
N. P. **Savani**, A. Vourlidas, I. G. Richardson, A. Szabo, B. J. Thompson, A. Pulkkinen, M. L. Mays, T. Nieves-Chinchilla, V. Bothmer
Space Weather Volume 15, Issue 2 February **2017** Pages 441–461 DOI: 10.1002/2016SW001458
http://onlinelibrary.wiley.com/doi/10.1002/2016SW001458/full
http://sci-hub.cc/10.1002/2016SW001458

High-energy solar particle events in cycle 24
Nat **Gopalswamy**, Pertti Makela, Seiji Yashiro, Hong Xie, Sachiko Akiyama, Neeharika Thakur
The 14th International Astrophysics Conference held in Tampa, FL during April 24-29, 2015. Accepted for publication in Journal of Physics: Conference Series (JPCS). edited by G. Zank, **2015**
http://arxiv.org/ftp/arxiv/papers/1507/1507.06162.pdf; **File**

Predicting the magnetic vectors within coronal mass ejections arriving at Earth: 2. Geomagnetic response: BZ VALIDATION
N. P. **Savani**,1,2 A. Vourlidas,3 I. G. Richardson,4,2 A. Szabo,2 B. J.Thompson,2 A. Pulkkinen,2 M. L. Mays,5,2 T. Nieves-Chinchilla,5,2 V.Bothmer6
Space Weather **2016**

Predicting the magnetic vectors within coronal mass ejections arriving at Earth 1. Initial architecture
Savani, N. P.; Vourlidas, A.; Szabo, A.; Mays, M. L.; Thompson, B. J.; Richardson, I. G.; Evans, R.; Pulkkinen, A.; Nieves-Chinchilla, T.
Space Weather , Volume 13, Issue 6 June **2015** Pages 374–385,
http://arxiv.org/pdf/1502.02067v1.pdf **File**
http://onlinelibrary.wiley.com/doi/10.1002/2015SW001171/full

Estimating the Height of CMEs Associated with a Major SEP Event at the Onset of the Metric Type II Radio Burst during Solar Cycles 23 and 24
P. **Mäkelä**, N. Gopalswamy, S. Akiyama, H. Xie, and S. Yashiro
ApJ **2015**
http://cdaw.gsfc.nasa.gov/publications/makela/makela2015ApJ.pdf

The Relation Between Large-Scale Coronal Propagating Fronts and Type II Radio Bursts
Nariaki V. **Nitta**, Wei Liu, Nat Gopalswamy, Seiji Yashiro
Solar Phys., **2014**
http://www.lmsal.com/nitta/publ/SP_typeII_20140904.pdf
http://arxiv.org/pdf/1409.4754v1.pdf **File**

Sun-to-Earth Characteristics of Two Coronal Mass Ejections Interacting near 1 AU: Formation of a Complex Ejecta and Generation of a Two-Step Geomagnetic Storm
Ying D. **Liu**, Zhongwei Yang, Rui Wang, Janet G. Luhmann, John D. Richardson, Noé Lugaz
ApJL, **2014**
http://arxiv.org/pdf/1409.2954v1.pdf

Investigating the differential emission measure and energetics of microflares with combined SDO/AIA and RHESSI observations
A. R. **Inglis**, S. Christe
2014, ApJ
http://arxiv.org/pdf/1405.5262v1.pdf

27-28 Sept, 23:30-02 – заметная NW эрупция, поглощение на 304 А, протоны, CME

Structured type III radio bursts observed in interplanetary space
Immanuel C. **Jebaraj**, Jasmina Magdalenić, Vladimir Krasnoselskikh, Vratislav Krupar, Stefaan Poedts
A&A **2022**
https://arxiv.org/pdf/2209.12333.pdf

28 Sept залимбовый пересвет 10:16 ←16s 8s→ A=56/311=0.18 <0.2 не берём
10:11 тоже 0.18

28 September **INCOMING SOLAR STORM CLOUD:** Magnetic fields around sunspot 1577 erupted on Sept. 28th, hurling a coronal mass ejection (CME) almost directly toward Earth.

Improving the Arrival Time Estimates of Coronal Mass Ejections by Using Magnetohydrodynamic Ensemble Modeling, Heliospheric Imager data, and Machine Learning
Talwinder **Singh**, Bernard Benson, Syed A. Z. Raza, Tae K. Kim, Nikolai V. Pogorelov, William P. Smith, Charles N. Arge
2023
https://arxiv.org/pdf/2302.05588.pdf

Predicting the Time-of-Arrival of Coronal Mass Ejections at Earth From Heliospheric Imaging Observations
Carlos Roberto **Braga**, Angelos Vourlidas, Guillermo Stenborg, Alisson Dal Lago, Rafael Rodrigues Souza de Mendonça, Ezequiel Echer
JGR **2020**
https://arxiv.org/pdf/2008.09005.pdf

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation
Nishtha **Sachdeva**
Ph.D. Thesis **2019**
https://arxiv.org/pdf/1907.12673.pdf

The Effects of Uncertainty in Initial CME Input Parameters on Deflection, Rotation, Bz, and Arrival Time Predictions
C. **Kay** , N. Gopalswamy
JGR v. 123 September **2018** Pages 7220-7240
sci-hub.tw/10.1029/2018JA025780

Statistics of coronal dimmings associated with coronal mass ejections.
II. Relationship between coronal dimmings and their associated CMEs
Karin **Dissauer**, Astrid M. Veronig, Manuela Temmer, Tatiana Podladchikova
ApJ **2018**
https://arxiv.org/pdf/1810.01589.pdf

Testing the current paradigm for space weather prediction with heliospheric imagers
Luke A. **Barnard**, Curt A. de Koning, Christopher J. Scott, Mathew J. Owens, Julia Wilkinson, Jackie A. Davies
Space Weather Volume 15, Issue 6 June **2017** Pages 782–803
http://onlinelibrary.wiley.com/doi/10.1002/2017SW001609/full
http://sci-hub.cc/10.1002/2017SW001609

Kinematics of Interacting CMEs of September 25 and 28, 2012
Wageesh **Mishra**, Nandita Srivastava, Talwinder Singh
JGR **201**5
http://arxiv.org/pdf/1511.06970v1.pdf

Webb_ISEST (International Study for Earth-Affecting Solar Transients) _MM WG4 Campaign Events_2014, File
See http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_ICME%5CCME_Lists

Large Solar Energetic Particle Events Associated with Filament Eruptions Outside of Active Regions
N. **Gopalswamy**, P. Makela, S. Akiyama, S. Yashiro, H. Xie, N. Thakur, S. W. Kahler
ApJ **2015**
http://arxiv.org/ftp/arxiv/papers/1504/1504.00709.pdf

30 Sept – 04:36: M1.3 вспышка, **пересвет** на STEREO-A, A=17*2/310=0,11
23:41: C9.9 вспышка, **пересвет** на STEREO-A, A=9*2/310=0,058

30 Sept залимбовый пересвет 16:16 ←16s 8s→ A=42/311=0.14 <0.2 не берём
Рядом меньше

30 Sept
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Ensemble CME Modeling Constrained by Heliospheric Imager Observations
L. **Barnard** , M. J. Owens , C. J. Scott , C. A. de Koning
AGU Advances Volume1, Issue3 September **2020** e2020AV000214
https://doi.org/10.1029/2020AV000214
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020AV000214

Study of Interplanetary and Geomagnetic Response of Filament Associated CMEs
Kunjal **Dave**, Wageesh Mishra, Nandita Srivastava, R. M. Jadhav
Proceedings IAU Symposium No. 340, **2018**
https://arxiv.org/pdf/1807.00809.pdf

On The Relationship Between Magnetic Cancellation and UV Burst Formation
C. J. **Nelson**, J. G. Doyle, R. Erdelyi
MNRAS **2016**
http://arxiv.org/pdf/1608.06505v1.pdf

The radial speed-expansion speed relation for Earth-directed CMEs
P. **Mäkelä**, N. Gopalswamy, S. Yashiro
Space Weather Volume 14, Issue 5 May **2016** Pages 368–378 **File**
http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf

Coronal Condensation in Funnel Prominences as Return Flows of the Chromosphere-Corona Mass Cycle
Liu, Wei; Berger, Thomas E.; and Low, B. C.
2014/01, Nature of Prominences and their role in Space Weather, Proceedings of the International Astronomical Union, IAU Symposium, Volume 300, pp. 441-442
http://sun.stanford.edu/~weiliu/research/publications/2013/2014IAUS_Liu_Berger_Low_funnel-prom.pdf

Hot coronal loops associated with umbral brightenings⋆
C. E. **Alissandrakis** and S. Patsourakos
A&A 556, A79 (**2013**)

30 Sent- 1 Oct – геомагнитная буря с Dst~143 нТл от эрупции 27-28 Sent

Predicting the magnetic vectors within coronal mass ejections arriving at Earth
Savani, N. P.; Vourlidas, A.; Szabo, A.; Mays, M. L.; Thompson, B. J.; Richardson, I. G.; Evans, R.; Pulkkinen, A.; Nieves-Chinchilla, T.
Space Weather Journal , Jan **2015, File**
http://arxiv.org/pdf/1502.02067v1.pdf

Sun-to-Earth Characteristics of Two Coronal Mass Ejections Interacting near 1 AU: Formation of a Complex Ejecta and Generation of a Two-Step Geomagnetic Storm
Ying D. **Liu**, Zhongwei Yang, Rui Wang, Janet G. Luhmann, John D. Richardson, Noé Lugaz
ApJL, **2014**
http://arxiv.org/pdf/1409.2954v1.pdf

1 Oct **Dst~ -65 nT** (от эрупции волокна 27-28 сент.)

Analytical solutions of continuity equation for joint collisional and Ohmic energy losses and their effects on hard X-ray emission. II. Mixed energy losses
Zharkova V.V. and Dobranskis R.R.
MNRAS **2016**
http://mnras.oxfordjournals.org/content/early/2016/03/07/mnras.stw500.full.pdf?keytype=ref&ijkey=zcVKoDhBj8zNW7o

1-3 Oct
Radio measurements of coronal magnetic fields in fan-spine configurations on the Sun
B. **Ryabov** and A. Vrublevskis
CESRA #3554 **2023** https://www.astro.gla.ac.uk/users/eduard/cesra/?p=3554
See https://doi.org/10.2478/lpts-2023-0011

2 Oct
Probing the Sunspot Atmosphere with Three-Minute Oscillations
A.S. **Deres**, S.A. Anfinogentov
Solar Phys. **2017**
https://arxiv.org/pdf/1710.11552.pdf

Relationship Between Solar Coronal X-Ray Brightness and Active Region Magnetic Fields: A Study Using High Resolution Observations
Soumitra **Hazra**, Dibyendu Nandy, B Ravindra
2014
http://arxiv.org/pdf/1406.1683v1.pdf

4 Oct

Is There a Dynamic Difference between Stealthy and Standard Coronal Mass Ejections?
Beili **Ying**1, Alessandro Bemporad2,1, Li Feng1,3, Nariaki V. Nitta4, and Weiqun Gan1,3
2023 ApJ 942 3
https://iopscience.iop.org/article/10.3847/1538-4357/aca52c/pdf

Advances in Observing Various Coronal EUV Waves in the SDO Era and Their Seismological Applications (Invited Review)
Wei **Liu**, Leon Ofman
E-print, April **2014**; Solar Physics (Topical Issue, "Exploring the Network of SDO Science")
http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf

4-5 Oct
Earth-affecting Solar Transients: A Review of Progresses in Solar Cycle 24
Jie **Zhang**, Manuela Temmer, Nat Gopalswamy, Olga Malandraki, Nariaki V. Nitta, Spiros Patsourakos, Fang Shen, Bojan Vršnak, Yuming Wang, David Webb, Mihir I. Desai, Karin Dissauer, Nina Dresing, Mateja Dumbović, Xueshang Feng, Stephan G. Heinemann, Monica Laurenza, Noé Lugaz, Bin Zhuang
https://arxiv.org/ftp/arxiv/papers/2012/2012.06116.pdf **File 2021**
2020 https://arxiv.org/abs/2012.06116

4-8 Oct

Interplanetary Magnetic Flux Ropes as Agents Connecting Solar Eruptions and Geomagnetic Activities
K. **Marubashi**, K.-S. Cho, H. Ishibashi
Solar Physics December **2017**, 292:189
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1204-2.pdf

Understanding Problem Forecasts of ISEST Campaign Flare-CME Events
David **Webb**, Nariaki Nitta
Solar Physics October **2017**, 292:142 **File**

Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures
Nariaki V. **Nitta**, Tamitha Mulligan
Solar Physics September **2017**, 292:125 **File**

Webb_ISEST (International Study for Earth-Affecting Solar Transients) _MM WG4 Campaign Events_2014, File
See http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_ICME%5CCME_Lists

5 Oct, 03-10 UT: A very long duration B7.8 event peaked at 07:30 UTC and was associated with a filament eruption near SW AR 11584. A partial halo CME was observed in LASCO images and STEREO imagery indicate that parts of the CME are Earth directed.

See
http://solar.gmu.edu/wiki/presentations/ISEST_2015_workshop/working_group_summary/WG1_summary_2015_Zhang.pdf
See
http://solar.gmu.edu/wiki/presentations/ISEST_2015_workshop/WG1_data/Nitta_stealthy_sun_earth_events.pdf

Rotation of a Stealth CME on 2012 October 5 Observed in the Inner Heliosphere
Sandeep **Kumar**, Dinesha V. Hegde, Nandita Srivastava, Nikolai V. Pogorelov, Nat Gopalswamy, Seiji Yashiro
ApJ **2023**
https://arxiv.org/pdf/2310.04023.pdf

Categorization of Coronal Mass Ejection Driven Sheath Regions: Characteristics of STEREO Events
T. M. **Salman**, N. Lugaz, R. M. Winslow, C. J. Farrugia, L. K. Jian, A. B. Galvin
ApJ **2021**
https://arxiv.org/pdf/2106.12076.pdf

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation
Nishtha **Sachdeva**
Ph.D. Thesis **2019**
https://arxiv.org/pdf/1907.12673.pdf

Testing the current paradigm for space weather prediction with heliospheric imagers
Luke A. **Barnard**, Curt A. de Koning, Christopher J. Scott, Mathew J. Owens, Julia Wilkinson, Jackie A. Davies
Space Weather Volume 15, Issue 6 June **2017** Pages 782–803
http://onlinelibrary.wiley.com/doi/10.1002/2017SW001609/full
http://sci-hub.cc/10.1002/2017SW001609

Predicting the Arrival Time of Coronal Mass Ejections with the Graduated Cylindrical Shell and Drag Force Model
Tong **Shi**, Yikang Wang, Linfeng Wan, Xin Cheng, Mingde Ding, Jie Zhang
ApJ **2015**
http://arxiv.org/pdf/1505.00884v1.pdf

6 Oct
Predicting the Time-of-Arrival of Coronal Mass Ejections at Earth From Heliospheric Imaging Observations
Carlos Roberto **Braga**, Angelos Vourlidas, Guillermo Stenborg, Alisson Dal Lago, Rafael Rodrigues Souza de Mendonça, Ezequiel Echer
JGR **2020**
https://arxiv.org/pdf/2008.09005.pdf

7 Oct

Magnetic Flux of Active Regions Determining the Eruptive Character of Large Solar Flares
Ting **Li**, Yijun Hou, Shuhong Yang, Jun Zhang, Lijuan Liu, Astrid M. Veronig
ApJ **2020**
https://arxiv.org/pdf/2007.08127.pdf

Evershed flow observed in neutral and singly ionized iron lines
E. **Khomenko**, M. Collados, N. Shchukina, A. Diaz

A&A **2015**
http://arxiv.org/pdf/1510.00334v1.pdf

8 Oct – 11:16: M2.3 вспышка, **пересвет** на STEREO-**B**, B=18*2/280=0,13

8 Oct. , 11:17 - a solar M2.3 flare erupted on the northeastern limb of the sun's disk.
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

A new trigger mechanism for coronal mass ejections: the role of confined flares and photospheric motions in the formation of hot flux ropes
Alexander W **James**, Lucie M Green, Lidia van Driel-Gesztelyi, Gherardo Valori
A&A **2020**
https://arxiv.org/pdf/2010.11204.pdf

Ensemble CME Modeling Constrained by Heliospheric Imager Observations
L. **Barnard** , M. J. Owens , C. J. Scott , C. A. de Koning
AGU Advances Volume1, Issue3 September **2020** e2020AV000214
https://doi.org/10.1029/2020AV000214
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020AV000214

The Efficiency of Coronal Mass Ejection With Different IMF Preconditions on the Production of Megaelectronvolt Electron Content in the Outer Radiation Belt
C.-J. **Yuan** Q.-G. Zong
JGR Volume124, Issue5 May **2019** Pages 3222-3235
sci-hub.se/10.1029/2018JA026263

Study of the Geoeffectiveness and Galactic Cosmic-Ray Response of VarSITI-ISEST Campaign Events in Solar Cycle 24
O. P. M. **Aslam**, Badruddin
Solar Physics September **2017**, 292:135

8-9 Oct – геомагнитная буря от эрупции 5-ого сначала с Dst ~-95 нТл, а потом -111 нТл

Earth-affecting Solar Transients: A Review of Progresses in Solar Cycle 24
Jie **Zhang**, Manuela Temmer, Nat Gopalswamy, Olga Malandraki, Nariaki V. Nitta, Spiros Patsourakos, Fang Shen, Bojan Vršnak, Yuming Wang, David Webb, Mihir I. Desai, Karin Dissauer, Nina Dresing, Mateja Dumbović, Xueshang Feng, Stephan G. Heinemann, Monica Laurenza, Noé Lugaz, Bin Zhuang
https://arxiv.org/ftp/arxiv/papers/2012/2012.06116.pdf **File 2021**
2020 https://arxiv.org/abs/2012.06116

9 Oct – 23:36: M1.7 вспышка, **пересвет** на STEREO-**B**, B=19*2/280=0,14

10 Oct – 05:01: M1.0 вспышка, **пересвет** на STEREO-**B**, B=15*2/280=0,107 Вставить S29E85 L~254 AR11590

10 Oct
Multiwavelength study of twenty jets emanating from the periphery of active regions
Sargam M. Mulay, Durgesh Tripathi, Giulio Del Zanna, Helen Mason
A&A 2016

Nonlinear MHD waves in a Prominence Foot
Leon Ofman, Kalman Knizhnik, Therese Kucera, Brigitte Schmieder
2015
http://arxiv.org/pdf/1509.07911v1.pdf

Propagating Waves Transverse to the Magnetic Field in a Solar Prominence
B. **Schmieder**, T.A. Kucera, K. Knizhnik, M. Luna, A. Lopez-Ariste, and D.Toot
E-print, Sept **2013**; ApJ

12 Oct

The Statistical Relationship between White-light Emission and Photospheric Magnetic Field Changes in Flares
J. S. Castellanos **Durán**, L. Kleint
ApJ **2020**
https://arxiv.org/pdf/2007.02954.pdf

Magnetic field in atypical prominence structures: Bubble, tornado and eruption
P. J. **Levens**, B. Schmieder, A. López Ariste, N. Labrosse, K. Dalmasse, B. Gelly
2016
http://arxiv.org/pdf/1605.05964v1.pdf

13 Oct - геомагнитная буря с Dst ~-94 нТл от КД или от эрупций волокон

14 Oct – 22:16: C3.0 **пересвет** B=11*2/280=0,079 ←16s 8s→B=11/280=0,039

14 Oct

Multi-wavelength Observation of a Failed Eruption from a Helical Kink-unstable Prominence
Haiqing **Xu**, Jiangtao Su, Jie Chen, Guiping Ruan, Arun Kumar Awasthi, Hongqi Zhang, Mei Zhang, Kaifan Ji, Yuzong Zhang, Jiajia Liu
ApJ **2020**
https://arxiv.org/pdf/2008.08299.pdf

Multi-viewpoint Coronal Mass Ejection Catalog Based on STEREO COR2 Observations
Angelos **Vourlidas**1,4, Laura A. Balmaceda2,5,6, Guillermo Stenborg3, and Alisson Dal Lago2
2017 ApJ 838 141 **File**
http://sci-hub.cc/10.3847/1538-4357/aa67f0

15 Oct
Magnetic field in atypical prominence structures: Bubble, tornado and eruption
P. J. **Levens**, B. Schmieder, A. López Ariste, N. Labrosse, K. Dalmasse, B. Gelly
2016
http://arxiv.org/pdf/1605.05964v1.pdf

16 Oct
Can we explain non-typical solar flares?
K. **Dalmasse**, R. Chandra, B. Schmieder, G. Aulanier
A&A, **2014**
http://arxiv.org/pdf/1410.8194v1.pdf

A confined flare above filaments
K. **Dalmasse**, R. Chandra, B. Schmieder and G. Aulanier

E-print, Oct **2013**; Proceedings of the IAU S300
http://arxiv.org/abs/1310.0667

17 Oct

Using Forbush decreases to derive the transit time of ICMEs propagating from 1 AU to Mars

Johan L. Freiherr **von Forstner,** Jingnan Guo, Robert F. Wimmer-Schweingruber, Donald M. Hassler, Manuela Temmer, Mateja Dumbović, Lan K. Jian, Jan K. Appel, Jaša Čalogović, Bent Ehresmann, Bernd Heber, Henning Lohf, Arik Posner, Christian T. Steigies, Bojan Vršnak, Cary J. Zeitlin
JGR **2017**
https://arxiv.org/pdf/1712.07301.pdf

Anti-phase oscillations of Hα line Doppler velocity and width in solar limb spicules

D. **Khutsishvili** , T. V. Zaqarashvili, E. Khutsishvili, T. Kvernadze, V. Kulidzanishvili, V. Kakhiani, M. Sikharulidze
Astrophysics and Space Science December **2017**, 362:235
https://link.springer.com/content/pdf/10.1007%2Fs10509-017-3213-x.pdf

Quasi-periodic variations in Doppler velocities of Hα spicules

E. **Khutshishvili**, V. Kulidzanishvili, T. Kvernadze, T. V. Zaqarashvili, V. Kakhiani, D. Khutsishvili, M. Sikharulidze
Astrophysics and Space Science October **2014**, 354:2100

19 Oct залимбовый пересвет 12:16 ←16s 8s→ A=40/312=0.13
12:21 A=23*2/312=0.15 <0.2 не берём

20 Oct – 18:16: M9.0 **пересвет** B=68*2/279= 0,49 ←16s 8s→B=68/279=0,243

20 Oct – 18:16: M9.0 вспышка, **пересвет** на STEREO-B, B=19/78=0,244

Forecasting the Remaining Duration of an Ongoing Solar Flare

Jeffrey W. **Reep**, Will T. Barnes
Space Weather **2021**
https://arxiv.org/pdf/2103.03957.pdf

What determine Solar Flares Producing Interplanetary Type III Radio Bursts?

Y. K. **Kou**, Z. C. Jing, X. Cheng, W. Q. Pan, Y. Liu, C. Li, M. D. Ding
ApJL **2020**
https://arxiv.org/pdf/2007.03852.pdf

Eruption of Solar Magnetic Flux Ropes Caused by Flux Feeding

Quanhao **Zhang**, Yuming Wang, Rui Liu, Jie Zhang, Youqiu Hu, Wensi Wang, Bin Zhuang, Xiaolei Li
ApJL **2020**
https://arxiv.org/pdf/2007.01278.pdf

The Effect Of Cooling On Driven Kink Oscillations Of Coronal Loops

C. J. **Nelson**, A. A. Shukhobodskiy, R. Erdélyi, M. Mathioudakis
Frontiers in Astronomy and Space Science **2019**
https://arxiv.org/pdf/1905.13137.pdf

Pre-eruption processes: heating, particle acceleration and the formation of a hot channel before the 2012 October 20 M9.0 limb flare

Aaron **Hernandez-Perez**, Yang Su, Astrid M. Veronig, Julia K. Thalmann, Peter Gömöry, Bhuwan Joshi
ApJ **2019**

https://arxiv.org/pdf/1902.08436.pdf

Seismology of contracting and expanding coronal loops using damping of kink oscillations by mode coupling
D.J. **Pascoe**, A.J.B. Russell, S.A. Anfinogentov, P.J.A. Simões, C.R. Goddard, V.M. Nakariakov, L. Fletcher
A&A 607, A8 **2017**
http://www2.warwick.ac.uk/fac/sci/physics/staff/research/davidpascoe/seis_contract.pdf
https://www.aanda.org/articles/aa/pdf/2017/11/aa30915-17.pdf

Identification of Low Coronal Sources of "Stealth" Coronal Mass Ejections Using New Image Processing Techniques
Nathalia **Alzate** and Huw Morgan
2017 ApJ 840 103
http://sci-hub.cc/10.3847/1538-4357/aa6caa

A statistical study of decaying kink oscillations detected using SDO/AIA
C. R. **Goddard**, G. Nistic`o, V. M. Nakariakov, I. V. Zimovets
A&A **201**5
http://arxiv.org/pdf/1511.03558v1.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

20-22 Oct – несколько похожих C- и M-вспышек из выходящей ни диск южной области 1598

21 Oct – 20:06: M1.3 вспышка, **пересвет** на STEREO-B, B=11*2/279= 0,08

22 Oct – 18:51: M5.0 вспышка, **пересвет** на STEREO-B, B=38*2/279= 0,27

22 Oct

Statistical Survey of Coronal Mass Ejections and Interplanetary Type II Bursts
V. **Krupar**1,2,3, J. Magdalenić4, J. P. Eastwood5, N. Gopalswamy2, O. Kruparova3, A. Szabo2, and F. Němec
2019 ApJ 882 92
https://iopscience.iop.org/article/10.3847/1538-4357/ab3345/pdf

Frequency rising sub-THz emission from solar flare ribbons
E.P. **Kontar**, G.G. Motorina, N.L.S. Jeffrey, Y.T. Tsap, G.D. Fleishman, A.V. Stepanov
A&A **2018**
https://arxiv.org/pdf/1810.03922.pdf

Spectral Trends of Solar Bursts at Sub-THz Frequencies
L. O. T. **Fernandes,** P. Kaufmann, E. Correia, C. G. Giménez de Castro, A. S. Kudaka, A. Marun, P. Pereyra, J.-P. Raulin, A. B. M. Valio
Solar Physics January **2017**, 292:21
http://sci-hub.cc/10.1007/s11207-016-1043-6

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. II. THE CASE FOR ABSENT FILAMENTS
T. A. **Howard**1, C. E. DeForest1, U. G. Schneck2, and C. R. Alden

2017 ApJ 834 86 DOI 10.3847/1538-4357/834/1/86
http://c.brightcove.com/article/10.3847/1538-4357/834/1/86/pdf
http://iopscience.iop.org.sci-hub.cc/0004-637X/834/1/86/

Evaluation of standoff distance method to determine the coronal magnetic field using CME-driven shocks
K. **Suresh**, A. Shanmugaraju, M. Syed Ibrahim
Astrophysics and Space Science November **2016**, 361:360
http://link.springer.com/article/10.1007/s10509-016-2944-4?wt_mc=alerts.TOCjournals

A large-scale search for evidence of quasi-periodic pulsations in solar flares
A. R. **Inglis**, J. Ireland, B. R. Dennis, L. A. Hayes, P. T. Gallagher
ApJ **2016**
https://arxiv.org/pdf/1610.07454v1.pdf

A Prominence Eruption Driven by Flux Feeding from Chromospheric Fibrils
Quanhao **Zhang**, Rui Liu, Yuming Wang, Chenglong Shen, Kai Liu, Jiajia Liu, and S. Wang
E-print, May **2014**; ApJ
http://space.ustc.edu.cn/users/1327636026JDEkU0ZlZUdRWGckUFpSejZrdkU5RzZHZUIzSXpqSkVILg/publication/materials/20140312022408.728_flux_preprint.pdf

23 Oct – 03:21: X1.8 вспышка, **пересвет** на STEREO-B, B=65*2/279=0,47

23 Oct – SE Sunspot AR1598 erupted at 0322 UT, producing a strong X1.8-class solar flare практически без метровой компоненты. Gamma
A CME was observed off the east limb in STEREO-A imagery after the filament eruption near северо-центральной AR 11593.

Highly Energetic Electrons Accelerated in Strong Solar Flares as a Preferred Driver of Sunquakes
H. **Wu**, Y. Dai, M. D. Ding
ApJL **2023**
https://arxiv.org/pdf/2301.02865.pdf

Flare Induced Sunquake Signatures in the Ultraviolet as Observed by the Atmospheric Imaging Assembly
Sean **Quinn**, Mihalis Mathioudakis, Christopher J. Nelson, Ryan O. Milligan, Aaron Reid, David B. Jess
ApJ **2021**
https://arxiv.org/pdf/2105.05704.pdf

A Possible Selection Rule for Flares Causing Sunquakes
Ruizhu **Chen** and Junwei Zhao
2021 ApJ 908 182
https://arxiv.org/pdf/2103.08158.pdf
https://doi.org/10.3847/1538-4357/abd240

The Lyman-alpha Emission in Solar Flares. I. a Statistical Study on Its Relationship with the 1--8 Å Soft X-ray Emission
Zhichen **Jing**, Wuqi Pan, Yukun Yang, Dechao Song, Jun Tian, Y. Li, X. Cheng, Jie Hong, M. D. Ding
ApJ **2020**
https://arxiv.org/pdf/2009.10358.pdf

White-light Emission and Chromospheric Response by an X1.8-class Flare on 2012 October 23
Kyoko **Watanabe**1 and Shinsuke Imada2
2020 ApJ 891 88

sci-hub.si/10.3847/1538-4357/ab711b

Estimation of Key Sunquake Parameters through Hydrodynamic Modeling and Cross-Correlation Analysis
John T. **Stefan**, Alexander G. Kosovichev
ApJ **2019**
https://arxiv.org/pdf/1911.06839.pdf

Sunquakes of Solar Cycle 24
I.N. **Sharykin**, A.G. Kosovichev
ApJ **2019**
https://arxiv.org/pdf/1911.04197.pdf

Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles
G. A. **de Nolfo**, A. Bruno, J. M. Ryan, S. Dalla, J. Giacalone, I. G. Richardson, E. R. Christian, S. J. Stochaj, G. A. Bazilevskaya, M. Boezio, M. Martucci, V. V. Mikhailov, R. Munini
ApJ **2019**
https://arxiv.org/pdf/1905.12878.pdf **File**

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE **Thesis Catalog (2010-2017)**
Allafort, A. J.
(**2018**). PhD thesis, Stanford Univ. **File**
https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

Characteristics of Sustained >100 γ-ray Emission Associated with Solar Flares
G. H. **Share**, R. J. Murphy, A. K. Tolbert, B. R. Dennis, S. M. White, R. A. Schwartz, and A. J. Tylka
ApJ Supplement **2017**
http://www.astro.umd.edu/~share/publications/share_2017.pdf **File**

Statistical Studies of Solar White-Light Flares and Comparisons with Superflares on Solar-type Stars
Kosuke **Namekata**, Takahito Sakaue, Kyoko Watanabe, Ayumi Asai, Hiroyuki Maehara, Yuta Notsu,Shota Notsu, Satoshi Honda, Takako Ishii, Kai Ikuta, Daisaku Nogami, Kazunari Shibata
ApJ **2017**
https://arxiv.org/pdf/1710.11325.pdf

ВОЗМОЖНОСТЬ ГЕНЕРАЦИИ УДАРНОЙ ВОЛНЫ В КОРОНЕ СОЛНЦА ПРИ ОТСУТСТВИИ КОРОНАЛЬНОГО ВЫБРОСА МАССЫ

ЕСЕЛЕВИЧ В.Г.✉1, ЕСЕЛЕВИЧ М.В.1, ЗИМОВЕЦ И.В.2,3,4, ШАРЫКИН И.Н.
АЖ Том: 94Номер: 9 Год: **2017** Страницы: 793-807
Evidence for shock generation in the solar corona in the absence of coronal mass ejections.
Eselevich, V.G., Eselevich, M.V., Zimovets, I.V., Sharykin, I.N.:
2017, Astron. Rep. 61, 805. DOI. ADS.
sci-hub.se/10.1134/S1063772917080030

Investigation of Relationship Between High-Energy X-ray Sources and Photospheric Impact of X1.8 Solar Flare of October 23, 2012
Ivan N **Sharykin**, Alexander G Kosovichev, Viacheslav M Sadykov, Ivan V Zimovets, Ivan I Myshyakov
2017
https://arxiv.org/pdf/1703.03767.pdf

The Characteristics of Solar X-Class Flares and CMEs: A Paradigm for Stellar Superflares and Eruptions?

Louise K. Harra, Carolus J. Schrijver, Miho Janvier, Shin Toriumi, Hugh Hudson, Sarah Matthews, Magnus M. Woods, Hirohisa Hara, Manuel Guedel, Adam Kowalski, Rachel Osten, Kanya Kusano, Theresa Lueftinger
Solar Phys. 2016 Open Access **File**

Analytical solutions of continuity equation for joint collisional and Ohmic energy losses and their effects on hard X-ray emission. II. Mixed energy losses
Zharkova V.V. and Dobranskis R.R.
MNRAS **2016**
http://mnras.oxfordjournals.org/content/early/2016/03/07/mnras.stw500.full.pdf?keytype=ref&ijkey=zcVKoDhBj8zNW7o

Irreversible Rapid Changes of Magnetic Field Associated with the 2012 October 23 Circular Near-limb X1.8 Flare
Dandan **Ye**, Chang Liu, Haimin Wang
Research in Astronomy and Astrophysics (RAA) **2016**
http://arxiv.org/pdf/1602.02080v1.pdf

On the variation of the scaling exponent of the flare fluence with temperature
M. **Kretzschmar**
Solar Phys. **2015**
http://arxiv.org/pdf/1510.01975v1.pdf

Solar Demon – an approach to detecting flares, dimmings, and EUV waves on SDO/AIA images
Emil **Kraaikamp*** and Cis Verbeeck
J. Space Weather Space Clim., 5, A18 (**2015**) **File**
http://www.swsc-journal.org/articles/swsc/pdf/2015/01/swsc140062.pdf

On the 2012 October 23 circular ribbon flare: emission features and magnetic topology
Kai **Yang**, Yang Guo, M. D. Ding
2015
http://arxiv.org/pdf/1505.02914v1.pdf

The Relation Between Large-Scale Coronal Propagating Fronts and Type II Radio Bursts
Nariaki V. **Nitta**, Wei Liu, Nat Gopalswamy, Seiji Yashiro
Solar Phys., **2014**
http://www.lmsal.com/nitta/publ/SP_typeII_20140904.pdf
http://arxiv.org/pdf/1409.4754v1.pdf **File**

Solar Flare Impulsive Phase Emission Observed with SDO/EVE
Michael B. **Kennedy**1, Ryan O. Milligan1,2,3, Mihalis Mathioudakis1, and Francis P. Keenan
2013 ApJ 779 84
http://arxiv.org/abs/1310.4649

25 Oct

The Formation of a U-shaped Filament Due to the Successive Magnetic Reconnection between a Filament and Its Nearby Chromospheric Fibrils
Liping **Yang**1,2, Xiaoli Yan1,3, Zhike Xue1,3, Jincheng Wang1,3, Liheng Yang1,3, Zhe Xu1,3, Qiaoling Li4,5, Yian Zhou1,3, Yang Peng1,2, and Xinsheng Zhang1,2
2023 ApJ 952 43
https://iopscience.iop.org/article/10.3847/1538-4357/acd16e/pdf

Quantification of the Writhe Number of the Evolution of Solar Filament Axes

Zhenjun **Zhou** (周振军)1,2,3,4, Chaowei Jiang5, Hongqiang Song6, Yuming Wang3, Yongqiang Hao1, and Jun Cui1
2023 ApJ 944 175
https://iopscience.iop.org/article/10.3847/1538-4357/acb6f8/pdf

Super Penumbral Chromospheric Flare
S. **Liu**, H.Q. Zhang, D. P. Choudhary, A. K. Srivastava, B. N. Dwivedi
Research in Astronomy and Astrophysics (RAA) **2018**
https://arxiv.org/pdf/1806.00232.pdf

Using Forbush decreases to derive the transit time of ICMEs propagating from 1 AU to Mars
Johan L. Freiherr **von Forstner,** Jingnan Guo, Robert F. Wimmer-Schweingruber, Donald M. Hassler, Manuela Temmer, Mateja Dumbović, Lan K. Jian, Jan K. Appel, Jaša Čalogović, Bent Ehresmann, Bernd Heber, Henning Lohf, Arik Posner, Christian T. Steigies, Bojan Vršnak, Cary J. Zeitlin
JGR **2017**
https://arxiv.org/pdf/1712.07301.pdf

October 27: A filament eruption across the equator near AR 11600 began near 14h UTC and reached its most intense level 2 hours later. A CME was observed in STEREO-B at 16:25 UTC and in STEREO-B when imagery resumed a couple of hours later.

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation
Nishtha **Sachdeva**
Ph.D. Thesis **2019**
https://arxiv.org/pdf/1907.12673.pdf

28 Oct - NW лимбовая эрупция, C1.7 LDE

Predicting the Time-of-Arrival of Coronal Mass Ejections at Earth From Heliospheric Imaging Observations
Carlos Roberto **Braga**, Angelos Vourlidas, Guillermo Stenborg, Alisson Dal Lago, Rafael Rodrigues Souza de Mendonça, Ezequiel Echer
JGR **2020**
https://arxiv.org/pdf/2008.09005.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

Relationship Between Solar Coronal X-Ray Brightness and Active Region Magnetic Fields: A Study Using High Resolution Observations
Soumitra **Hazra**, Dibyendu Nandy, B Ravindra
2014
http://arxiv.org/pdf/1406.1683v1.pdf

29 Oct
Investigation of Umbral Dots with the New Vacuum Solar Telescope
Kaifan **Ji**, Xia Jiang, Song Feng, Yunfei Yang, Hui Deng, Feng Wang
Solar Phys. **2015**
http://arxiv.org/pdf/1509.00312v3.pdf

Investigation of Umbral Dots with the New Vacuum Solar Telescope

Ji **Kaifan**, Jiang Xia, Feng Song, Yang Yunfei, Deng Hui, Wang Feng
Solar Phys. **2015**
http://arxiv.org/pdf/1509.00312v1.pdf

31 Oct
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

2 Nov

Fine-scale structures and material flows of quiescent filaments observed by New Vacuum Solar Telescope
X.L. **Yan**, Z.K. Xue, Y.Y. Xiang, L.H. Yang
Research in Astronomy and Astrophysics **2015**
http://arxiv.org/pdf/1502.03546v1.pdf

Constraining hot plasma in a non-flaring solar active region with FOXSI hard X-ray observations
Ishikawa, Shin-nosuke; Glesener, Lindsay; Christe, Steven; Ishibashi, Kazunori; Brooks, David H.; Williams, David R.; Shimojo, Masumi; Sako, Nobuharu; Krucker, S
PASJ (**2014**) 66 (SP1), S15 (1–7)
http://pasj.oxfordjournals.org/content/66/SP1/S15.full.pdf+html
http://arxiv.org/pdf/1509.05288v1.pdf

First Images from the Focusing Optics X-Ray Solar Imager
Säm **Krucker**1,2, Steven Christe3, Lindsay Glesener1, Shin-nosuke Ishikawa4, Brian Ramsey5, Tadayuki Takahashi6,7, Shin Watanabe6,7, Shinya Saito6,7, Mikhail Gubarev5, Kiranmayee Kilaru5, Hiroyasu Tajima8, Takaaki Tanaka9, Paul Turin1, Stephen McBride1, David Glaser1, Jose Fermin1, Stephen White10, and Robert Lin
2014 ApJ 793 L32

FOXSI Success
Lindsey **Glesener** and Sa"m Krucker
RHESSI Science Nuggets, No. 189, Dec **2012**

3 Nov
Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

5 Nov
Identification of Coronal Holes on AIA/SDO images using unsupervised Machine Learning
Fadil **Inceoglu**, Yuri Y. Shprits, Stephan G. Heinemann, Stefano Bianco
ApJ **2022**
https://arxiv.org/pdf/2203.10491.pdf

7-8 Nov

When do solar erupting hot magnetic flux ropes form?
A. **Nindos**, S. Patsourakos, A. Vourlidas, X. Cheng, J. Zhang
A&A **2020**
https://arxiv.org/pdf/2008.04380.pdf

Dynamics of a solar prominence tornado observed by SDO/AIA on 2012 November 7-8
I. **Mghebrishvili**, T. V. Zaqarashvili, V. Kukhianidze, G. Ramishvili, B. Shergelashvili, A. Veronig, S. Poedts
ApJ **2015**
http://arxiv.org/pdf/1508.06788v1.pdf

8 Nov – 02:31: M1.7 вспышка, **пересвет** на STEREO-B, B=24*2/278=0,17

8 Nov, 02:40 - a new northeastern-limb sunspot unleashed an M1.7-class LDE flare. Слабое задержанное возрастание протонов, возможно, от эрупции залимбового волокна.

Konus- Wind and Helicon- Coronas-F observations of solar flares
Pal'shin, V. D.; Charikov, Yu. E.; Aptekar, R. L.; Golenetskii, S. V.; Kokomov, A. A.; Svinkin, D. S.; Sokolova, Z. Ya.; Ulanov, M. V.; Frederiks, D. D.; Tsvetkova, A. E.
Geomagnetism and Aeronomy, Volume 54, Issue 7, pp.943-948 **2014**
https://arxiv.org/pdf/1412.2015.pdf
https://link.springer.com/content/pdf/10.1134/S0016793214070093.pdf

Observation of Magnetic reconnection at a 3D null point associated with a solar eruption
J. Q. **Sun**, J. Zhang, K. Yang, X. Cheng, M. D. Ding
ApJL **2016**
http://arxiv.org/pdf/1609.06787v1.pdf

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations
A. **Nindos**, S. Patsourakos, A. Vourlidas, C. Tagikas
ApJ **2015**
http://arxiv.org/pdf/1507.03766v1.pdf

9 Nov - A partial halo CME was observed after a filament eruption in the southern hemisphere. During the early hours, a magnetic filament located behind the sun's southeastern limb erupted, hurling a bright coronal mass ejection (CME) into space: Еще заметная центральная-южная эрупция волокна после 13 UT.

A magnetic cloud prediction model for forecasting space weather relevant properties of Earth-directed coronal mass ejections
Sanchita **Pal**, Dibyendu Nandy, Emilia K J Kilpua
A&A **2022**
https://arxiv.org/pdf/2203.05231.pdf

Connecting 3D evolution of Coronal Mass Ejections to their Source Regions
Satabdwa **Majumdar**, Vaibhav Pant, Ritesh Patel, Dipankar Banerjee
ApJ **2020**
https://arxiv.org/pdf/2007.00923.pdf

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation
Nishtha **Sachdeva**
Ph.D. Thesis **2019**
https://arxiv.org/pdf/1907.12673.pdf

Numerical simulations of ICME-ICME interactions
Tatiana **Niembro**, Alejandro Lara, Ricardo F. González, J. Cantó
2018

https://arxiv.org/pdf/1801.03136.pdf

AN ANALYTICAL MODEL OF INTERPLANETARY CORONAL MASS EJECTION INTERACTIONS
T. **Niembro**1,3, J. Cantó2, A. Lara3, and R. F. González
2015 ApJ 811 69

9-10 Nov

Investigating the Variations in Compositions and Heating of Interacting ICMEs
Nandita **Srivastava**, Zavkiddin Mirtoshev, and Wageesh Mishra
Front. Astron. Space Sci., 10 :1154612 **2023**
https://doi.org/10.3389/fspas.2023.1154612
https://www.frontiersin.org/articles/10.3389/fspas.2023.1154612/pdf

Assessing the collision nature of coronal mass ejections in the inner heliosphere
Wageesh **Mishra**, Yuming Wang, Nandita Srivastava, Chenglong Shen
ApJ Supplement Series **2017**
https://arxiv.org/pdf/1707.08299.pdf

Evolution and Consequences of Coronal Mass Ejections in the Heliosphere
Wageesh **Mishra**
The **thesis** was submitted in Mar **2015** to MLS university, Udaipur, for which the university granted the degree in Jan 2016
https://arxiv.org/pdf/2204.09879.pdf

Evolution and Consequences of Interacting CMEs of 2012 November 9-10 using STEREO/SECCHI and In Situ Observations
Wageesh **Mishra**, Nandita Srivastava, D. Chakrabarty
Solar Phys., **2014**
http://arxiv.org/pdf/1408.0352v1.pdf

10 Nov - A small CME, possibly with a weak Earth directed component, was observed following a filament eruption near AR 11608 starting at approx. 05h UT
Self-consistent modeling of the energetic storm particle event of 10 November 2012
A. **Afanasiev**1 , R. Vainio1 , D. Trotta2 , S. Nyberg1 , N. Talebpour Sheshvan1 , H. Hietala3 , and N. Dresing1
A&A 2023
https://arxiv.org/pdf/2310.00993.pdf

An overview of HMI off-disk flare observations
Dennis **Fremstad**, Juan Camilo Guevara Gómez, Hugh Hudson, Juan Carlos Martínez Oliveros
A&A **2023**
https://arxiv.org/pdf/2302.13632.pdf

Solar sources of interplanetary magnetic clouds leading to helicity prediction
Roger K. **Ulrich**, Pete Riley, T. Tran
Space Weather **2018**
https://arxiv.org/ftp/arxiv/papers/1811/1811.03560.pdf

The Interaction of Successive Coronal Mass Ejections: A Review
Noé **Lugaz** Manuela Temmer Yuming Wang Charles J. Farrugia
Sol Phys (**2017**) 292: 64. **File**
http://sci-hub.cc/10.1007/s11207-017-1091-6

11 Nov – >12:30, Существенная центральная-южная эрупция

12 Nov – 23:36: M2.0 вспышка, **пересвет** на STEREO-B, B=7*2/278=0,05

11 Nov

Using Forbush decreases to derive the transit time of ICMEs propagating from 1 AU to Mars

Johan L. Freiherr **von Forstner,** Jingnan Guo, Robert F. Wimmer-Schweingruber, Donald M. Hassler, Manuela Temmer, Mateja Dumbović, Lan K. Jian, Jan K. Appel, Jaša Čalogović, Bent Ehresmann, Bernd Heber, Henning Lohf, Arik Posner, Christian T. Steigies, Bojan Vršnak, Cary J. Zeitlin

JGR **2017**

https://arxiv.org/pdf/1712.07301.pdf

12 Nov. – 23:28 очень импульсная M2 вспышка, компактная

An interplanetary shock wave (probably the leading edge of a CME) hit Earth's magnetic field on Nov. 12th at approximately 2300 UT

The Flare Likelihood and Region Eruption Forecasting (FLARECAST) Project: Flare forecasting in the big data & machine learning era **Review**

M. K. **Georgoulis**, D. S. Bloomfield, M. Piana, A. M. Massone, M. Soldati, P. T. Gallagher, E. Pariat, N. Vilmer, E. Buchlin, F. Baudin, A. Csillaghy, H. Sathiapal, D. R. Jackson, P. Alingery, F. Benvenuto, C. Campi, K. Florios, C. Gontikakis, C. Guennou, J. A. Guerra, I. Kontogiannis, V. Latorre, S. A. Murray, S.-H. Park, S. von Stachelski, A. Torbica, D. Vischi, M. Worsfold

Journal of Space Weather and Space Climate, **2021**

https://arxiv.org/pdf/2105.05993.pdf

Fitting and Reconstruction of Thirteen Simple Coronal Mass Ejections

Nada Al-Haddad, Teresa Nieves-Chinchilla, Neel P. Savani, Noe Lugaz, Ilia I. Roussev

Solar Phys. 2018

https://arxiv.org/pdf/1804.02359.pdf

Improved magnetogram calibration of SMFT and its comparison with the HMI

Xianyong **Bai**, Yuanyong Deng, Fei Teng, Jiangtao Su, Xinjie Mao, Guoping Wang

MNRAS, **2014**

http://arxiv.org/pdf/1409.4869v1.pdf

12-13 Nov

Testing and Improving a Set of Morphological Predictors of Flaring Activity

Ioannis **Kontogiannis**, Manolis K. Georgoulis, Sung-Hong Park, Jordan A. Guerra

Solar Phys. June **2018**, 293:96

https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1317-2.pdf

The Broken Lane of a Type II Radio Burst Caused by Collision of a Coronal Shock with a Flare Current Sheet

Guannan **Gao**, Min Wang, Ning Wu, Jun Lin, E. Ebenezer, Baolin Tan

Solar Phys. **2016**

http://link.springer.com/article/10.1007/s11207-016-1007-x

Magnetic Flux Cancellation as the Trigger of Solar Quiet-Region Coronal Jets

Navdeep K. **Panesar**, Alphonse C. Sterling, Ronald L. Moore, Prithi Chakrapani

ApJL **2016**

https://arxiv.org/pdf/1610.08540v1.pdf **File**

13 Nov – 02:06: M6.0? вспышка, **пересвет** на STEREO-B, B=31,5*2/278=0,23
По картинке никак не M6.0б скорее ~M3.5. Рядом ещё более импульсные вспышки. Но у них разница между картинкой и таблицей небольшая. **Взял M3.5.**
13 Nov – 05:51: M2.5 вспышка, **пересвет** на STEREO-B, B=9*2/278=0,06 сомнительный, прилимб

13 Nov. – Total Solar Eclipse 01:58 еще одна очень импульсная M6 вспышка и еще несколько аналогичных меньшего балла. Gamma

Future High-Resolution and High-Cadence Observations for Unraveling Small-Scale Explosive Solar Features
Alphonse C. **Sterling**, Ronald L. Moore, Navdeep K. Panesar, Tanmoy Samanta, Sanjiv K. Tiwari, Sabrina L. Savage
Frontiers **2023**
https://arxiv.org/pdf/2302.13179.pdf

A Total Solar Eclipse Earth-Based Mission: Multi-wavelength Observations from Land, Sea and Air to Probe the Critical middle Corona
Shadia R **Habbal**, Benjamin Boe, Colby Haggerty, Adalbert Ding
White Paper was submitted to the 2024 Solar and Space Physics (Heliophysics) Decadal Survey **2023**
https://arxiv.org/ftp/arxiv/papers/2302/2302.11781.pdf

Automatic Detection of Interplanetary Coronal Mass Ejections in Solar Wind In Situ Data
Hannah T. **Rüdisser**, Andreas Windisch, Ute V. Amerstorfer, Christian Möstl, Tanja Amerstorfer, Rachel L. Bailey, Martin A. Reiss
Space Weather **2022**
https://arxiv.org/pdf/2205.03578.pdf

Onset of the Magnetic Explosion in Solar Coronal Jets in Quiet Regions on the Central Disk
Navdeep K. **Panesar**, Ronald L. Moore, Alphonse C. Sterling
ApJ **2020**
https://arxiv.org/pdf/2006.04253.pdf

Validation of MHD Model Predictions of the Corona with LASCO-C2 Polarized Brightness Images
Philippe **Lamy**, Olivier Floyd, Zoran Mikić, Pete Riley
Solar Physics October **2019**, 294:162
https://doi.org/10.1007/s11207-019-1549-9

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE Thesis Catalog (2010-2017)
Allafort, A. J.
(**2018**). PhD thesis, Stanford Univ. **File**
https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

Tethered Prominence-CME Systems Captured during the 2012 November 13 and 2013 November 3 Total Solar Eclipses
Miloslav **Druckmüller**1, Shadia R. Habbal2, Nathalia Alzate3, and Constantinos Emmanouilidis4
2017 ApJL 851 L41
http://sci-hub.tw/10.3847/2041-8213/aa9ed5

Three-Dimensional Simulations of Tearing and Intermittency in Coronal Jets
P. F. **Wyper**, C. R. DeVore, J. T. Karpen, B. J. Lynch
ApJ 2016
http://arxiv.org/pdf/1607.00692v1.pdf

Dynamics of Large-scale Coronal Structures as Imaged during the 2012 and 2013 Total Solar Eclipses
Nathalia **Alzate**1, Shadia R. Habbal2, Miloslav Druckmüller3, Constantinos Emmanouilidis4, andHuw Morgan5
2017 ApJ 848 84

Large Scale Coronal Structures Imaged During the 2012/2013 Total Solar Eclipses
Nathalia **Alzate**, Huw Morgan, Shadia R. Habbal, Miloslav Druckmüller, Constantinos Emmanouilidis
UKSP Nuggets #80, **2017**
www.uksolphys.org/?p=13114

Decimetric and metric digital solar radio spectrometers of the Yunnan Astronomical Observatories and the first-light results
G. **Gao**, M. Wanga, L. Donga, N. Wu, J. Lin
New Astron. Volume 30, July **2014**, Pages 68–78
http://www.sciencedirect.com/science/article/pii/S1384107614000153

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics
Markus J. **Aschwanden**
ApJ **2016**
http://arxiv.org/pdf/1605.04952v1.pdf **File**
http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

13-14 Nov
Structure and Dynamics of the 13/14 November 2012 Eclipse White-Light Corona
Jay M. **Pasachoff**, Vojtech Rusin, Metod Saniga, Bryce A. Babcock, Muzhou Lu, Allen B. Davis, Ronald F. Dantowitz, Pavlos Gaintatzis, John H. Seiradakis, Aristeidis Voulgaris, Daniel B. Seaton, Kazuo Shiota
2014
http://arxiv.org/pdf/1412.1155v1.pdf

14 Nov – Геомагнитная буря, на хвостовой части ICME. Dst ~ - 108 нТл

On the effect of geomagnetic storms on relativistic electrons in the outer radiation belt: Van Allen Probes observations†
Pablo. S. **Moya**, Víctor A. Pinto, David G. Sibeck, Shrikanth G. Kanekal, Daniel N. Baker
JGR **2017**
http://sci-hub.cc/http://onlinelibrary.wiley.com/doi/10.1002/2017JA024735/abstract;jsessionid=48E043E86C22084A1908FD5A8ADEDAFC.f03t01

The Standardisation and Sequencing of Solar Eclipse Images for the Eclipse Megamovie Project
Larisza D. Krista, Scott W. McIntosh
Solar Phys. 2015

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

14-23 Nov

Multi-spacecraft Observations of the Evolution of Interplanetary Coronal Mass Ejections between 0.3 and 2.2 au: Conjunctions with the Juno Spacecraft
Emma E. **Davies**1,2, Réka M. Winslow1, Camilla Scolini1,3, Robert J. Forsyth2, Christian Möstl4, Noé Lugaz1, and Antoinette B. Galvin1
2022 ApJ 933 127
https://iopscience.iop.org/article/10.3847/1538-4357/ac731a/pdf

16 Nov >07:30- заметная эрупция SE (волокна?), C1 LDE

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

17 Nov

Automated Driving for Global Nonpotential Simulations of the Solar Corona
Anthony R. **Yeates**1 and Prantika Bhowmik1
2022 ApJ 935 13
https://iopscience.iop.org/article/10.3847/1538-4357/ac7de4/pdf

Relationship Between Solar Coronal X-Ray Brightness and Active Region Magnetic Fields: A Study Using High Resolution Observations
Soumitra **Hazra**, Dibyendu Nandy, B Ravindra
2014
http://arxiv.org/pdf/1406.1683v1.pdf

18 Nov

Detection of Energy Cutoffs in Flare-accelerated Electrons
Fanxiaoyu **Xia**1,2, Yang Su1,2, Wen Wang3, Linghua Wang3, Alexander Warmuth4, Weiqun Gan1,2, and Youping Li1,2
2021 ApJ 908 111
https://iopscience.iop.org/article/10.3847/1538-4357/abce5c/pdf

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. II. THE CASE FOR ABSENT FILAMENTS
T. A. **Howard**1, C. E. DeForest1, U. G. Schneck2, and C. R. Alden
2017 ApJ 834 86 DOI 10.3847/1538-4357/834/1/86
http://c.brightcove.com/article/10.3847/1538-4357/834/1/86/pdf
http://iopscience.iop.org.sci-hub.cc/0004-637X/834/1/86/

18-21 Nov

Case studies of multi-day 3He-rich solar energetic particle periods
Nai-hwa **Chen**, Radoslav. Bucik, Davina. E. Innes, Glenn. M. Mason
A&A **2015**
http://arxiv.org/pdf/1506.04369v1.pdf

18-25 Nov

On the use of relative field line helicity as an indicator for solar eruptivity
K. **Moraitis**, S. Patsourakos, A. Nindos, J.K. Thalmann, É. Pariat

A&A **2023**
https://arxiv.org/pdf/2312.13950.pdf

Magnetic Helicity and Free Magnetic Energy as Tools to Probe Eruptions in two Differently Evolving Solar Active Regions
E. **Liokati**, A. Nindos, M. K. Georgoulis
A&A **2023**
https://arxiv.org/pdf/2301.08495.pdf

20 Nov – 12:46: M1.7 вспышка, **пересвет** на STEREO-A, A=19*2/312=0,12

19 Nov
Using Forbush decreases to derive the transit time of ICMEs propagating from 1 AU to Mars
Johan L. Freiherr **von Forstner,** Jingnan Guo, Robert F. Wimmer-Schweingruber, Donald M. Hassler, Manuela Temmer, Mateja Dumbović, Lan K. Jian, Jan K. Appel, Jaša Čalogović, Bent Ehresmann, Bernd Heber, Henning Lohf, Arik Posner, Christian T. Steigies, Bojan Vršnak, Cary J. Zeitlin
JGR **2017**
https://arxiv.org/pdf/1712.07301.pdf

20 Nov - The largest flare of the day, an impulsive M1.7 event at 12:41 UTC, occurred in a region at the northwest limb, probably AR 11611. **A filament eruption near AR 11619 began at 11:12 UTC and was associated with an asymmetric full halo CME** observed in LASCO imagery a few hours later. The CME was visible in STEREO imagery from 12:09 UTC

An overview of HMI off-disk flare observations
Dennis **Fremstad**, Juan Camilo Guevara Gómez, Hugh Hudson, Juan Carlos Martínez Oliveros
A&A **2023**
https://arxiv.org/pdf/2302.13632.pdf

Solar Flare Effects on the Earth's Lower Ionosphere
Laura A. **Hayes**, Oscar S.D. O'Hara, Sophie A. Murray, Peter T. Gallagher
Solar Phys. **2021**
https://arxiv.org/pdf/2109.06558.pdf

Temperature of source regions of 3He-rich impulsive solar energetic particle events
N.-H. **Chen**, R. Bučík, R.-S. Kim
Space Weather of the Heliosphere: Processes and Forecasts Proceedings IAU Symposium No. 335, 2017 **2017**
https://arxiv.org/pdf/1712.07285.pdf

Statistical Studies of Solar White-Light Flares and Comparisons with Superflares on Solar-type Stars
Kosuke **Namekata**, Takahito Sakaue, Kyoko Watanabe, Ayumi Asai, Hiroyuki Maehara, Yuta Notsu,Shota Notsu, Satoshi Honda, Takako Ishii, Kai Ikuta, Daisaku Nogami, Kazunari Shibata
ApJ **2017**
https://arxiv.org/pdf/1710.11325.pdf

On the nature of off-limb flare continuum sources detected by SDO/HMI
P.**Heinzel**, L. Kleint, J. Kasparova, S. Krucker
ApJ **2017**
https://arxiv.org/pdf/1709.06377.pdf

Testing the current paradigm for space weather prediction with heliospheric imagers
Luke A. **Barnard**, Curt A. de Koning, Christopher J. Scott, Mathew J. Owens, Julia Wilkinson, Jackie A. Davies
Space Weather Volume 15, Issue 6 June **2017** Pages 782–803
http://onlinelibrary.wiley.com/doi/10.1002/2017SW001609/full
http://sci-hub.cc/10.1002/2017SW001609

Co-Spatial White Light and Hard X-Ray Flare Footpoints Seen Above the Solar Limb
Säm **Krucker**1,2, Pascal Saint- Hilaire2, Hugh S. Hudson2,3, Margit Haberreiter4, Juan Carlos Martinez-Oliveros2, Martin D. Fivian2, Gordon Hurford1,2, Lucia Kleint1, Marina Battaglia1, Matej Kuhar1, and Nicolas G. Arnold
2015 ApJ 802 19

20-21 Nov – Несколько полу-импульсных C-M вспышек и средних эрупций; The magnetic canopy of big sunspot AR1618 is crackling with M-class solar flares. Some of them might have propelled faint coronal mass ejections (CMEs) toward Earth. If so, the impacts would likely commence on Nov. 23rd, with a chance of high-latitude geomagnetic storms. While most of the ejecta from the CME associated with the M3 event in AR 11618 was directed eastwards, components of the CME could be Earth directed.

21 Nov
Rapid Evolution of the Solar Atmosphere During a Microflare Observed with EIS: Hints of Chromospheric Magnetic Reconnection
Jeffrey W. **Brosius**
EIS Nugget - November **2013**, http://solarb.mssl.ucl.ac.uk/SolarB/nuggets/nugget_2013nov.jsp

November 22: **A filament eruption was observed starting in the southeast quadrant just after 08h** UTC. LASCO C3 observed a faint and slow CME off the east limb from 10:42 UTC while the CME was visible in STEREO imagery from 10:09 UTC. There may be a very weak Earth directed component associated with this CME.

November 23: **A filament eruption in the southern hemisphere was observed starting at 11:42** and peaking just after 14h UTC. In LASCO imagery it is difficult to determine if this CME was geoeffective due to a CME with an origin in an active region behind the northeast limb occurring a little earlier. STEREO imagery indicate that a faint component of the CME could be Earth directed.

Multi-spacecraft Observations of the Evolution of Interplanetary Coronal Mass Ejections between 0.3 and 2.2 au: Conjunctions with the Juno Spacecraft
Emma E. **Davies**1,2, Réka M. Winslow1, Camilla Scolini1,3, Robert J. Forsyth2, Christian Möstl4, Noé Lugaz1, and Antoinette B. Galvin1
2022 ApJ 933 127
https://iopscience.iop.org/article/10.3847/1538-4357/ac731a/pdf

23 Nov

Initiation and Early Kinematic Evolution of Solar Eruptions
X. **Cheng**, J. Zhang, B. Kliem, T. {Török}, C. Xing, Z. J. Zhou, B. Inhester, M. D. Ding
ApJ **2020**
https://arxiv.org/pdf/2004.03790.pdf

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation

Nishtha **Sachdeva**
Ph.D. Thesis **2019**
https://arxiv.org/pdf/1907.12673.pdf

The Effects of Uncertainty in Initial CME Input Parameters on Deflection, Rotation, Bz, and Arrival Time Predictions
C. **Kay** , N. Gopalswamy
JGR v. 123 September **2018** Pages 7220-7240
sci-hub.tw/10.1029/2018JA025780

Prominence and Filament Eruptions Observed by the Solar Dynamics Observatory: Statistical Properties, Kinematics, and Online Catalog
Patrick I. **McCauley**, Yingna Su, Nicole Schanche, Kaitlin E. Evans, Chuan Su, Sean McKillop, Katharine K. Reeves
Solar Phys. **2015**
http://arxiv.org/pdf/1505.02090v1.pdf

24 Nov
Ensemble CME Modeling Constrained by Heliospheric Imager Observations
L. **Barnard** , M. J. Owens , C. J. Scott , C. A. de Koning
AGU Advances Volume1, Issue3 September **2020** e2020AV000214
https://doi.org/10.1029/2020AV000214
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020AV000214

24-25 Nov – Forbush ~3%

25 Nov
Identification of Low Coronal Sources of "Stealth" Coronal Mass Ejections Using New Image Processing Techniques
Nathalia **Alzate** and Huw Morgan
2017 ApJ 840 103
http://sci-hub.cc/10.3847/1538-4357/aa6caa

26 Nov - **A filament eruption** was observed south of Region 1620 in SDO/AIA 304 imagery beginning at 03:43Z. A CME hit Earth's magnetic field at approximately 05:00

Twisting/Swirling Motions During a Prominence Eruption as seen from SDO/AIA
V. **Pant**, A. Datta, D. Banerjee, K. Chandrashekhar, S. Ray
ApJ **2018**
https://arxiv.org/pdf/1804.10767.pdf

27 Nov – 15:56: M1.6 вспышка, **пересвет** на STEREO-A, A=27*2/312=0,17
21:26: M1.0 вспышка, **пересвет** на STEREO-A, A=9,5*2/312=0,06

27 Nov - Several interesting events were observed during the day. **A filament eruption** near AR 11621 began just after midnight and was later on associated with a partial halo CME in LASCO imagery. There's a chance this CME could reach Earth on November 30. A very slow filament eruption across the equator and mostly in the western hemisphere was observed during the morning. STEREO imagery indicate weak components of the associated CME could be Earth directed. Another filament eruption was observed beginning at 20:45 UTC between AR 11621 and AR S2080, however, the associated CME does not appear to have any Earth directed component. **Gamma**

Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles
G. A. **de Nolfo**, A. Bruno, J. M. Ryan, S. Dalla, J. Giacalone, I. G. Richardson, E. R. Christian, S. J. Stochaj, G. A. Bazilevskaya, M. Boezio, M. Martucci, V. V. Mikhailov, R. Munini
ApJ **2019**
https://arxiv.org/pdf/1905.12878.pdf **File**

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE **Thesis Catalog (2010-2017)**
Allafort, A. J.
(**2018**). PhD thesis, Stanford Univ. **File**
https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

Characteristics of Sustained >100 γ-ray Emission Associated with Solar Flares
G. H. **Share**, R. J. Murphy, A. K. Tolbert, B. R. Dennis, S. M. White, R. A. Schwartz, and A. J. Tylka
ApJ Supplement **2017**
http://www.astro.umd.edu/~share/publications/share_2017.pdf **File**

28 Nov – 21:41: M2.2 вспышка, **пересвет** на STEREO-A, A=33*2/312=0,21

28 Nov
Using Forbush decreases to derive the transit time of ICMEs propagating from 1 AU to Mars
Johan L. Freiherr **von Forstner,** Jingnan Guo, Robert F. Wimmer-Schweingruber, Donald M. Hassler, Manuela Temmer, Mateja Dumbović, Lan K. Jian, Jan K. Appel, Jaša Čalogović, Bent Ehresmann, Bernd Heber, Henning Lohf, Arik Posner, Christian T. Steigies, Bojan Vršnak, Cary J. Zeitlin
JGR **2017**
https://arxiv.org/pdf/1712.07301.pdf

29 Nov – 12:16: C5.8 **пересвет** A=21*2/312=0,134 ←16s 8s→ A=21/312=0,067

2-4 Dec
Space weather: the solar perspective -- an update to Schwenn (2006) **Review**
Manuela **Temmer**
Living Reviews in Solar Physics **2021**
https://arxiv.org/pdf/2104.04261.pdf

3 Dec
The nonpotentiality of coronae of solar active regions, the dynamics of the surface magnetic field, and the potential for large flares
C.J. **Schrijver**
ApJ **2016**
http://arxiv.org/pdf/1602.07244v1.pdf

December 4-17
3D Global Coronal Density Structure and Associated Magnetic Field near Solar Maximum
Maxim **Kramar**, Vladimir Airapetian, Haosheng Lin
2016
http://arxiv.org/pdf/1604.00535v1.pdf

6 Dec – утром крупная эрупция большого SW лимбового волокна

7 Dec - Magnetic fields around departing sunspot AR1621 became unstable and erupted during the late hours of Dec. 7th, hurling a bulb of plasma off the sun's western limb.

Transverse Coronal-Loop Oscillations Induced by the Non-radial Eruption of a Magnetic Flux Rope
Q. M. **Zhang**, J. L. Chen, S. T. Li, L. Lu, D. Li
Solar Phys. **2022**
https://arxiv.org/pdf/2201.07389.pdf

A revised cone model and its application to non-radial prominence eruptions
Q. M. **Zhang**
A&A Letter **2021**
https://arxiv.org/pdf/2108.11831.pdf

9 Dec – 14 Dec
Recent Voyager Evidence for Rapid Transport of Flare-Generated Disturbances by Polar Coronal Hole Streams
D S Intriligator1, W D Miller1, J Intriligator1,2, W Webber3, W Sun4, T Detman1, M Dryer1 and C Deehr4
Journal of Physics: Conference Series, Volume 900, Number 1 012010 2017
http://iopscience.iop.org/article/10.1088/1742-6596/900/1/012010/pdf

12 Dec
EUV imaging and spectroscopy for improved space weather forecasting **Review**
Leon **Golub**1*, Peter Cheimets1, Edward E. DeLuca1, Chad A. Madsen1, Katharine K. Reeves1, Jenna Samra1, Sabrina Savage2, Amy Winebarger2 and Alexander R. Bruccoleri3
J. Space Weather Space Clim. **2020**, 10, 37
https://doi.org/10.1051/swsc/2020040
https://www.swsc-journal.org/articles/swsc/pdf/2020/01/swsc200031.pdf

12-15 Dec
Testing and Improving a Set of Morphological Predictors of Flaring Activity
Ioannis **Kontogiannis**, Manolis K. Georgoulis, Sung-Hong Park, Jordan A. Guerra
Solar Phys. June **2018**, 293:96
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1317-2.pdf

14-15 Dec – небольшое возрастание потока протонов (SEP) на 10 МэВ

17 Dec
Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

18 Dec
Traveling ionospheric disturbances as huge natural lenses: Solar radio emission focusing effect,
Koval, A., Y. Chen, A. Stanislavsky, and Q.-H. Zhang
(**2017**). J. Geophys. Res. Space Physics, 122 DOI: 10.1002/2017JA024080
http://sci-hub.cc/10.1002/2017JA024080

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014

http://arxiv.org/pdf/1409.1422v1.pdf

19 Dec

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

20 Dec

An Estimate of the Magnetic Field Strength Associated with a Solar Coronal Mass Ejection from Low Frequency Radio Observations
K. Sasikumar **Raja**1, R. Ramesh1, K. Hariharan1, C. Kathiravan1, and T. J. Wang
2014 ApJ 796 56
https://arxiv.org/pdf/1611.05249v1.pdf

Observational Characteristics of CMEs without Low Coronal Signatures
E. **D'Huys**, D.B. Seaton, S. Poedts, D. Berghmans
2014
http://arxiv.org/pdf/1409.1422v1.pdf

24 Dec

Measurements and Modeling of Total Solar Irradiance in X-class Solar Flares
Christopher Samuel **Moore**1,2,3, Phillip Clyde Chamberlin4, and Rachel Hock
2014 ApJ 787 32

Extreme Ultraviolet Late-Phase Flares: Before and During the Solar Dynamics Observatory Mission
Thomas N. **Woods**
Solar Phys., **2014; File**

26 Dec

Finding the critical decay index in solar prominence eruptions
N. **Vasantharaju**, P. Vemareddy, B. Ravindra, V. H. Doddamani
ApJ **2019**
https://arxiv.org/pdf/1909.10442.pdf

Bi-directional flows in a C-class solar flare
Zongjun **Ning**
Astrophysics and Space Science January **2016**, 361:22

30 Dec

Evidence for evaporation-incomplete condensation cycles in warm solar coronal loops
Clara **Froment**, Frédéric Auchère, Karine Bocchialini, Eric Buchlin, Chloé Guennou, Jacques Solomon
2015
http://arxiv.org/pdf/1504.08129v1.pdf

31 Dec

Decayless low-amplitude kink oscillations: a common phenomenon in the solar corona?
S. A. Anfinogentov, V. M. Nakariakov, G. Nisticò
A&A 2015
http://arxiv.org/pdf/1509.05519v1.pdf