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Klaus Galsgaard**, Maria S. Madjarska, Duncan H. Mackay, Chaozhou Mou**
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Magnetic flux supplement to coronal bright points
Chaozhou Mou**, Zhenghua Huang, Lidong Xia, Maria S. Madjarska, Bo Li, Hui Fu, Fangran Jiao, Zhenyong Hou**
ApJ 818 9 2016
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Evidence of Twisted Flux-Tube Emergence in Active Regions
M. Poisson**, C. H. Mandrini, P. Démoulin, M. López Fuentes**
Solar Physics March 2015**, Volume 290, Issue 3, pp 727-751**
http://arxiv.org/pdf/1505.01805v1.pdf

2 Jan – 4 Feb

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
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6 Jan

Distinguishing between Flaring and Non-Flaring Active Regions: A Machine Learning Perspective
Soumitra Hazra**, Gopal Sardar, Partha Choudhuri**
A&A 2020

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

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A Semi-Automatic Method to Measure the Rotation of Sunspots
Daniel Brown **& Andrew Walker**
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Roger K. Ulrich**, Tham Tran**
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Nonlinear Force-Free Field Modeling of the Solar Magnetic Carpet and Comparison with SDO/HMI and Sunrise/IMaX Observations
L. P. Chitta**, R. Kariyappa, A. A. van Ballegooijen, E. E. DeLuca, S. K. Solanki**
ApJ, 2014
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Improved methods for determining the kinematics of coronal mass ejections and coronal waves
J. P. Byrne**, D. M. Long, P. T. Gallagher, D. S. Bloomfield, S. A. Maloney, R. T. J. McAteer, H. Morgan, S. R. Habbal**
E-print, July 2013**; A&A**

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Mode-Conversion of a Solar Extreme-Ultraviolet Wave over a Coronal Cavity
Weiguo Zong**, Yu Dai**
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AUTOMATIC DETECTION AND TRACKING OF CORONAL MASS EJECTIONS.
II. MULTISCALE FILTERING OF CORONAGRAPH IMAGES
Jason P. Byrne**1, Huw Morgan1,2, Shadia R. Habbal1, and Peter T. Gallagher**
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Comparison of Cylindrical Interplanetary Flux-Rope Model Fitting with Different Boundary Pitch-Angle Treatments
N. Nishimura**, K. Marubashi, M. Tokumaru**
Solar Physics April 2019**, 294:49**
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1435-5.pdf

Spectral Structures and Their Generation Mechanisms for Solar Radio Type-I Bursts
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17 Jan
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**
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https://arxiv.org/pdf/2106.12076.pdf

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Calibration of Hinode/XRT for Coalignment
Yoshimura**, K., McKenzie, David E.**
Solar Phys. 2015
http://ylstone.physics.montana.edu/yosimura/hinode/coalignment/KY_coal_paper_20150706.pdf

18 Jan
A nanoflare based cellular automaton model and the observed properties of the coronal plasma
Marcelo López Fuentes**, James A. Klimchuk**
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19 Jan

Association Between Magnetic Pressure Difference and the Movement of Solar Pores
Merlin M. **Mendoza** & Chia-Hsien Lin
2023 ApJ 946 9
https://iopscience.iop.org/article/10.3847/1538-4357/acbe43/pdf

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

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Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures
Nariaki V. Nitta**, Tamitha Mulligan**
Solar Physics September 2017**, 292:125** File

20 Jan
Segmentation of Coronal Holes Using Active Contours Without Edges
L. E. Boucheron**, M. Valluri, R. T. J. McAteer**
Solar Phys. 2016

Observations of quasi-periodic phenomena associated with a large blowout solar jet

R. J. Morton**, A. K. Srivastava, R. Erd'elyi**
E-print, April 2012**, A&A**

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The Nonpotentiality of Steady-state Coronal Magnetic Field Derived with Time-relaxation Magnetohydrodynamics Simulations Using Helioseismic and Magnetic Imager Three-component Magnetic Field Data
Keiji Hayashi**1, Chin-Chun Wu2, and Kan Liou3**
2022 **ApJ 940 82**
https://iopscience.iop.org/article/10.3847/1538-4357/ac9b25/pdf

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Measuring and modeling the rate of separator reconnection between an emerging and existing active region
Marika I. McCarthy**, Dana W. Longcope, Anna Malanushenko, David E. McKenzie**
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https://arxiv.org/pdf/1911.06340.pdf

OBSERVATIONS OF SOLAR ENERGETIC PARTICLES FROM 3He-RICH EVENTS OVER A WIDE RANGE OF HELIOGRAPHIC LONGITUDE
M. E. Wiedenbeck**1, G. M. Mason2, C. M. S. Cohen3, N. V. Nitta4, R. Gómez-Herrero5,6, and D. K Haggerty**
2013 **ApJ 762 54**

22 Jan, **>08: приличная эрупция в связи с непродолжительной вспышкой C2.4 из северной.центральной AO 1149; См. Events**

23 Jan, **>22 с продолжением 24-ого: крупная SW эрупция волокна на диске и над/за Лимбом, хорошо видна на SDO/**304 A **; CME**
Solar Cosmic Rays, Neutrons, and Fermi Gamma-Rays,
Hugh Hudson **and Alec MacKinnon**
RHESSI Science Nuggets, No. 227, May, 2014**:**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Solar_Cosmic_Rays,_Neutrons,_and_Fermi_Gamma-Rays

Spectral Structures and Their Generation Mechanisms for Solar Radio Type-I Bursts
Kazumasa Iwai**, Yoshizumi Miyoshi, Satoshi Masuda, Fuminori Tsuchiya, Akira Morioka, Hiroaki Misawa**
ApJ, 2014
http://arxiv.org/pdf/1405.0708v1.pdf

24 Jan**, >00: крупная SW эрупция волокна на диске и над/за лимбом, хорошо видна на SDO/**304 A **; CME**
>06: еще одна непродолжительная C1.5 вспышка из AO 1149

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations
Richard A. **Harrison**, Jackie A. Davies, David Barnes, Christian Möstl
Space Weather **2023**
https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf

Identifying Flux Rope Signatures Using a Deep Neural Network
Luiz F. G. dos Santos**, Ayris Narock, Teresa Nieves-Chinchilla, Marlon Nuñez, Michael Kirk**
Solar Phys. 2020
https://arxiv.org/pdf/2008.13294.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

25 Jan**, >00: еще одна крупная SW эрупция волокна на диске и над/за лимбом, хорошо видна на SDO**/304 A

Extreme ultraviolet bursts and nanoflares in the quiet solar transition region and corona
L. P. Chitta**, H. Peter, P. R. Young**
A&A 2021
https://arxiv.org/pdf/2102.00730.pdf

26 Jan**: череда эрупций на/над NW лимбом на SDO**/304 A
>21:45**: хорошая корональная волна на STEREO-A**

Spectral Structures and Their Generation Mechanisms for Solar Radio Type-I Bursts
Kazumasa Iwai**, Yoshizumi Miyoshi, Satoshi Masuda, Fuminori Tsuchiya, Akira Morioka, Hiroaki Misawa**
ApJ, 2014
http://arxiv.org/pdf/1405.0708v1.pdf

PEAK FLUX DISTRIBUTIONS OF SOLAR RADIO TYPE-I BURSTS FROM HIGHLY RESOLVED SPECTRAL OBSERVATIONS
K. Iwai**1, S. Masuda2, Y. Miyoshi2, F. Tsuchiya3, A. Morioka3, and H. Misawa**
2013 **ApJ 768 L2**

27 Jan**: снова череда эрупций на/над NW лимбом на SDO**/304 A;
~09 UT**: хорошая корональная волна на STEREO-A**

Impulsive Solar Energetic Particle Events: EUV Waves and Jets **MINI** REVIEW
R. Bucik
Front. Astron. Space Sci. 9? 807961 2021
https://doi.org/10.3389/fspas.2021.807961
https://arxiv.org/abs/2112.14282

Correcting Doppler Shifts in He II 30.38 nm Line by Using the EVE and AIA data from Solar Dynamics Observatory
Zhixun Cheng**, Yuming Wang, Rui Liu**
2021
https://arxiv.org/ftp/arxiv/papers/2102/2102.13362.pdf

Radio Observations of Coronal Mass Ejection Initiation and Development in the Low Solar Corona Review
Eoin P. Carley **, Nicole Vilmer and Angelos Vourlidas**
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https://www.frontiersin.org/articles/10.3389/fspas.2020.551558/full
https://sci-hub.st/https://www.frontiersin.org/articles/10.3389/fspas.2020.551558/full

A new method for estimating global coronal wave properties from their interaction with solar coronal holes
I. Piantschitsch**, J. Terradas, M. Temmer**
A&A 2020
https://arxiv.org/pdf/2006.07293.pdf

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

A Statistical Analysis of the Solar Phenomena Associated with Global EUV Waves (Review)
David M. Long**, Pearse Murphy, Georgina Graham, Eoin P. Carley, David Pérez-Suárez**
Solar Phys. 2017
https://arxiv.org/pdf/1711.02530.pdf

Homologous solar events on 2011 January 27: Build-up and propagation in a complex coronal environment
M. Pick**, G. Stenborg, P. Demoulin, P. Zucca, A. Lecacheux**
ApJ 2016
http://www.lesia.obspm.fr/perso/pascal-demoulin/16/pick16_homologous_CMEs.pdf File

Statistical Analysis of Large-scale EUV Waves Observed by STEREO/EUVI
Nicole Muhr**, Astrid Maria Veronig, Ines Waltraud Kienreich, Bojan Vrsnak, Manuela Temmer, Bianca Maria Bein**
Solar Phys., 2014
http://arxiv.org/pdf/1408.2513v1.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

Reflection of Coronal Global Waves
Ines Kienreich **and Hugh Hudson**
RHESSI Science Nugget, No. 217, 2014

Solar TErrestrial Relations Observatory-A (STEREO-A) and PRoject for On-Board Autonomy 2 (PROBA2) Quadrature Observations of Reflections of Three EUV Waves from a Coronal Hole
I. W. Kienreich**, N. Muhr, A. M. Veronig, D. Berghmans, A. De Groof, M. Temmer, B. Vršnak and D. B. Seaton**
Solar Physics, August 2013**, Volume 286, Issue 1, pp 201-219,** File

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.**

Quadrature Observations of Wave and Non-Wave Components and Their Decoupling in an Extreme-Ultraviolet Wave Event

Y. Dai**1,2, M. D. Ding1,2, P. F. Chen1,2, and J. Zhang3**
E-print, Aug 2012**,** File**; ApJ 759 55, 2012**

28 Jan – 01:05: M1.3 **вспышка,** пересвет **на STEREO-A, A=22,5*2/312=0,144**

28 Jan**, ~00: эрупция волокна над SE лимбом;**
01: M1.3 вспышка и эрупция на/над NW лимбом на SDO/304 A; CME, небольшие
Протоны

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

Stereoscopic Observation of Slipping Reconnection in A Double Candle-Flame-Shaped Solar Flare
Tingyu Gou**, Rui Liu, Yuming Wang, Kai Liu, Bin Zhuang, Jun Chen, Quanhao Zhang, Jiajia Liu**
ApJLetters 2016
http://arxiv.org/pdf/1604.01457v1.pdf

Calibration of Hinode/XRT for Coalignment
Yoshimura**, K., McKenzie, David E.**
Solar Phys. 2015
http://ylstone.physics.montana.edu/yosimura/hinode/coalignment/KY_coal_paper_20150706.pdf

Temperature and Electron Density Diagnostics of a Candle-flame-shaped Flare
S. E. Guidoni**, D. E. McKenzie, D. W. Longcope, J. E. Plowman, and K. Yoshimura**
ApJ 2015

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.**

28-31 Jan

Motion and transport of solar cosmic rays in heliospheric traps: The event on January 28–31, 2001
V. I. Tulupov**, E. E. Grigorenko, N. A. Vlasova, G. P. Lyubimov**
Cosmic Research, November 2012**, Volume 50, Issue 6, pp 397-404**
Kosmicheskie Issledovaniya, 2012**, Vol. 50, No. 6, pp. 427–434.**

29 Jan
Imaging and Spectroscopic Observations of a Filament Channel and the Implications for the Nature of Counter-streamings
P. F. Chen**, L. K. Harra, and C. Fang**
2014 **ApJ 784 50**

30 Jan **- >17, эрупция NW волокна**
Analysis of large deflections of prominence-CME events during the rising phase of solar cycle 24

M.V. Sieyra, **M. Cécere, H. Cremades, F.A. Iglesias, A. Sahade, M. Mierla, G. Stenborg, A. Costa, M. West, E. D'Huys**
2020
https://arxiv.org/pdf/2007.14317.pdf

30-31 Jan

CMEs in the Heliosphere: II. A Statistical Analysis of the Kinematic Properties Derived from Single-Spacecraft Geometrical Modelling Techniques Applied to CMEs Detected in the Heliosphere from 2007 to 2017 by STEREO/HI-1
D. Barnes**, J. A. Davies, R. A. Harrison, J. P. Byrne, C. H. Perry…**
Solar Physics May 2019**, 294:57**
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1444-4.pdf

30 Jan-4 Feb
Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures
Nariaki V. Nitta**, Tamitha Mulligan**
Solar Physics September 2017**, 292:125** File

31 Jan

Coronal Mass Ejection Image Edge Detection In Heliospheric Imager STEREO SECCHI Data
Marc Nichitiu
2022
https://arxiv.org/pdf/2202.07678.pdf

Widespread Occurrence of High-Velocity Upflows in Solar Active Regions
S. L. Yardley**, D. H. Brooks, D. Baker**
A&A 2021
https://arxiv.org/pdf/2106.01396.pdf

31 Jan- 1 Feb
Signature and escape of highly fractionated plasma in an active region
David H. Brooks**, Stephanie L. Yardley**
MNRAS 2021
https://arxiv.org/pdf/2109.11157.pdf

1 Feb
Testing the Asymmetric Cone Model for Halo CMEs Using STEREO/SECCHI Coronagraphic Observations
Janusz Nicewicz**, , Grzegorz Michalek**
Advances in Space Research, 2014

THE HEIGHT EVOLUTION OF THE "TRUE" CORONAL MASS EJECTION MASS DERIVED FROM STEREO COR1 AND COR2 OBSERVATIONS
B. M. Bein**1, M. Temmer1, A. Vourlidas2, A. M. Veronig1, and D. Utz**
2013 **ApJ 768 31;** File

1-9 Feb
Statistical Analysis of the Horizontal Divergent Flow in Emerging Solar Active Regions
Shin Toriumi**, Keiji Hayashi, Takaaki Yokoyama**
ApJ, 2014
http://arxiv.org/pdf/1408.2383v1.pdf

1 Feb - 11 March

High-Speed Solar Wind Streams and Geomagnetic Storms During Solar Cycle 24
M. Gerontidou**, H. Mavromichalaki, T. Daglis**
Solar Physics **September** 2018**, 293:131**
https://link.springer.com/article/10.1007/s11207-018-1348-8

2 Feb
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

2-15 Feb

Deep-learning Reconstruction of Sunspot Vector Magnetic Fields for Forecasting Solar Storms
Dattaraj B. Dhuri**1,2, Shamik Bhattacharjee1, Shravan M. Hanasoge1,2, and Sashi Kiran Mahapatra1**
2022 **ApJ 939 64**
https://iopscience.iop.org/article/10.3847/1538-4357/ac9413/pdf

3 Feb
Coronal Magnetic Fields Derived from Simultaneous Microwave and EUV Observations and Comparison with the Potential Field Model
Shun Miyawaki**, Kazumasa Iwai, Kiyoto Shibasaki, Daikou Shiota, Satoshi Nozawa**
ApJ 2015
http://arxiv.org/pdf/1512.04198v1.pdf

4 Feb
Single ICMEs and Complex Transient Structures in the Solar Wind in 2010 – 2011
D. Rodkin**, V. Slemzin, A. N. Zhukov, F. Goryaev, Y. Shugay, I. Veselovsky**
Solar Physics **May** 2018**, 293:78**
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1295-4.pdf

4-6 Feb
Classification of Enhanced Geoeffectiveness Resulting from High-Speed Solar Wind Streams Compressing Slower Interplanetary Coronal Mass Ejections
Stephan G. **Heinemann**, Chaitanya Sishtla, Simon Good, Maxime Grandin, Jens Pomoell
ApJ **2024**
https://arxiv.org/pdf/2402.08065.pdf

8 Feb

Circular-ribbon flares and the related activities **Review**
Qingmin **Zhang**
Reviews of Modern Plasma Physics **2024**
https://arxiv.org/pdf/2401.16101.pdf

3He-rich solar energetic particles: Solar sources Review
R. Bucik
Space Sci Rev 2020
https://arxiv.org/pdf/2002.09442.pdf

How Rotating Solar Atmospheric Jets Become Kelvin--Helmholtz Unstable
Ivan Zhelyazkov**, Ramesh Chandra, Reetika Joshi**
Frontiers (of Physics) 2019
https://arxiv.org/pdf/1905.10789.pdf

A coronal hole jet observed with Hinode and the Solar Dynamics Observatory
Peter R. YOUNG**1,∗ and Karin MUGLACH2,3**
Publ. Astron. Soc. Japan (2014**) 66 (SP1), S12 (1–9)**
http://pasj.oxfordjournals.org/content/66/SP1/S12.full.pdf+html

CorPITA: An Automated Algorithm for the Identification and Analysis of Coronal "EIT Waves"
David M. Long**, D. Shaun Bloomfield, Peter T. Gallagher, David Pérez-Suárez**
Solar Phys., 2014
http://arxiv.org/pdf/1403.6722v1.pdf

8-10 Feb
Dark jets in solar coronal holes
Peter R. Young
ApJ 801 124 2015
http://arxiv.org/pdf/1501.02751v1.pdf

9 Feb – 01:30: M1.9 **вспышка,** пересвет **на STEREO-A, A=33,5*2/313=0,21**

9 Feb

Decimetric type U solar radio bursts and associated EUV phenomena on 2011 February 9
Guannan Gao **(corr-auth), Qiangwei Cai, Shaojie Guo, Min Wang**
ApJ 2021
https://arxiv.org/pdf/2110.10012.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

Spatially resolved observation of the fundamental and second harmonic standing kink modes using SDO/AIA
D. J. Pascoe**, C. R. Goddard, and V. M. Nakariakov**
A&A 2016
http://wrap.warwick.ac.uk/79792/1/WRAP_1273366-px-230616-ms_accepted.pdf

Solar Dynamics Observatory and Hinode Observations of a Blowout Jet in a Coronal Hole
P. R. Young**, K. Muglach**
Solar Phys., 2014

10 Feb – 12:46: C4.7 вспышка, пересвет **на STEREO-A, A=10*2/313=0,064**

10 Feb

Exploring the Limits of Synthetic Creation of Solar EUV Images via Image-to-image Translation
Valentina Salvatelli**1,2,3, Luiz F. G. dos Santos4, Souvik Bose5,6,7,8, Brad Neuberg1,2,9, Mark C. M. Cheung7, Miho Janvier10, Meng Jin2,7, Yarin Gal11, and Atilim Güneş Baydin12**
2022 **ApJ 937 100**

https://iopscience.iop.org/article/10.3847/1538-4357/ac867b/pdf

Effects of non-radial magnetic field on measuring magnetic helicity transport across solar photosphere
Yongliang Song**, Mei Zhang**
ApJ 2015
http://arxiv.org/pdf/1503.08563v1.pdf

10-24 Feb

Global Energetics of Solar Flares. XI. Flare Magnitude Predictions of the GOES Class
Markus J. Aschwanden
2020 **ApJ 897 16**
sci-hub.tw/10.3847/1538-4357/ab9630 File

Magnetohydrodynamic Simulations for Solar Active Regions using Time-series Data of Surface Plasma Flow and Electric Field Inferred from Helioseismic Magnetic Imager Vector Magnetic Field Measurements
Keiji Hayashi**1,2,3, Xueshang Feng2,4, Ming Xiong2,4, and Chaowei Jiang4**
2019 **ApJL 871 L28**

High-Speed Solar Wind Streams and Geomagnetic Storms During Solar Cycle 24
M. Gerontidou**, H. Mavromichalaki, T. Daglis**
Solar Physics September 2018**, 293:131**
https://link.springer.com/article/10.1007/s11207-018-1348-8

Relationship of EUV Irradiance Coronal Dimming Slope and Depth to Coronal Mass Ejection Speed and Mass
James Paul Mason, Thomas N. Woods, David F. Webb, Barbara J. Thompson, Robin C. Colaninno,Angelos Vourlidas
ApJ 2016
http://arxiv.org/pdf/1607.05284v1.pdf

11 Feb Три корональные волны на STREO-B

Observational Characteristics of solar EUV waves **Review**
Ramesh **Chandra**, Pooja Devi, P. F. Chen, Brigitte Schmieder, Reetika Joshi, Bhuwan Joshi, Arun Kumar Awasthi
3rd BINA workshop proceeding **2023**
https://arxiv.org/pdf/2310.12844.pdf

Prominence Oscillations activated by an EUV wave
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Relationship between Successive Flares in the Same Active Region and Space-Weather HMI Active Region Patch (SHARP) Parameters
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Anli **Ji**1, Xumin Cai1, Nigar Khasayeva1, Manolis K. Georgoulis2, Petrus C. Martens3, Rafal A. Angryk1, and Berkay Aydin1
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Yuandeng Shen**, Xinping Zhou, Yadan Duan, Zehao Tang, Chengrui Zhou, Song Tan**
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S. Yashiro**a, b, , , N. Gopalswamyb, P. Mäkeläa, b, S. Akiyamaa, b, W. Uddinc, A.K. Srivastavad, N.C. Joshij, R. Chandrae, P.K. Manoharanf, K. Mahalakshmif, V.C. Dwivedif, R. Jaink, A.K. Awasthic, g, N.V. Nittah, M.J. Aschwandenh, D.P. Choudharyi**
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Rui Wang**, Yihua Yan, Baolin Tan**
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Lucas Tarr**, Dana Longcope, and Margaret Millhouse**
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OBSERVATION OF HIGH-SPEED OUTFLOWS IN CORONAL LOOPS ASSOCIATED WITH PHOTOSPHERIC MAGNETIC FIELD EVOLUTION
J. T. Su**1, Y. Liu2, Y. D. Shen2, S. Liu1, and X. J. Mao**
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J. T. Su1, Y. D. Shen2, Y. Liu2, Y. Liu3, and X. J. Mao
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J. T. Su**1, Y. D. Shen2, and Y. Liu**
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What can we learn about solar coronal mass ejections, coronal dimmings, and Extreme-Ultraviolet jets through spectroscopic observations?
Hui Tian**, Scott W. McIntosh, Lidong Xia, Jiansen He, Xin Wang**
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Shin Toriumi**, Sung-Hong Park**
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The PDFI_SS Electric Field Inversion Software
George H. Fisher**, Maria D. Kazachenko, Brian T. Welsch, Xudong Sun, Erkka Lumme, David J. Bercik, Marc L. DeRosa, Mark C. M. Cheung**
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Assessing the collision nature of coronal mass ejections in the inner heliosphere
Wageesh Mishra**, Yuming Wang, Nandita Srivastava, Chenglong Shen**
ApJ Supplement Series 2017
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Relationship of EUV Irradiance Coronal Dimming Slope and Depth to Coronal Mass Ejection Speed and Mass
James Paul Mason, Thomas N. Woods, David F. Webb, Barbara J. Thompson, Robin C. Colaninno,Angelos Vourlidas
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http://arxiv.org/pdf/1607.05284v1.pdf

Triangulation of the continuum-like radio emission in a CME-CME interaction event
Jasmina Magdalenic∗**1 , Manuela Temmer2 , Vratislav Krupar3,4, Christophe Marque5 , Astrid Veronig2 , and Bojan Vrsnak**
CESRA 2016 **p.69**
http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v3.pdf

Interaction Between Two CMEs During 14 – 15 February 2011 and Their Unusual Radio Signature
A. Shanmugaraju**, S. Prasanna Subramanian, Bojan Vrsnak, M. Syed Ibrahim**
Solar Physics, 2014; File

Pathways of large-scale magnetic couplings between coronal events
C.J. Schrijver**, A.M. Title, A.R. Yeates and M.L. DeRosa**
E-print, May 2013, File; **ApJSS**

15 Feb – 01:55: X2.2 вспышка; большой пересвет **на STEREO-A, A=101*2/313=0,66**
14:51: C4.8 вспышка, пересвет **на STEREO-A A=14*2/313=0,089**
20:36: C6.6 вспышка, пересвет **на STEREO-A A=15,5*2/313=0,099**

February 15: **The** X2 event **in region 11158 was associated with a** full halo CME**. The CME could reach Earth on February 17.** Четкая корональная волна по всему диску, продолжающаяся в виде красивого гало.
Интересно то, что наблюдалось гораздо позже вспышки. На SDO 304 A
после ~03:50 и 05:00 видны крупные трансэкваториальные эрупции, которые распространялись к восточному лимбу **и затеняли большие площадки диска. Это можно видеть по фильмам на сайтах http://www.spaceweather.com/ и http://sdo.gsfc.nasa.gov/data/aiahmi/dayform.php, а также на разностном фильме PROBA2 http://proba2.oma.be/index.html/. Судя по грубой картинке HIRAISO в радиоизлучении поглощение увидеть трудно.**
Forbush ~4% 18-ого при небольшой буре.

See many movies at http://spaceweather.gmu.edu/events/15Feb2011_X/

The Evolution of Ion Charge States in Coronal Mass Ejections
J. Martin **Laming**, Elena Provornikova, Yuan-Kuen Ko
ApJ **2023**
https://arxiv.org/pdf/2307.15762.pdf

A comparative study of data-driven MHD simulations of solar coronal evolution with photospheric flows derived from two different approaches.
Xinyi **Wang**, Chaowei Jiang, Xueshang Feng, Boyi Wang, and Bo Chen
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Hybrid data-driven magnetofrictional and magnetohydrodynamic simulations of an eruptive solar active region
A. **Afanasyev**, Y. Fan, M. Kazachenko, M. Cheung
ApJ **2023**
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The Photospheric Imprints of Coronal Electric Currents
Brian T. Welsch
ApJ 2022
https://arxiv.org/pdf/2211.01911.pdf

A statistical study of magnetic field changes in the photosphere during solar flares using high-cadence vector magnetograms and their association with flare ribbons
Rahul Yadav**, Maria D. Kazachenko**
ApJ 2022
https://arxiv.org/pdf/2210.14264.pdf

Precursor Identification for Strong Flares Based On Anomaly Detection Algorithm
Jingjing Wang**, Bingxian Luo, and Siqing Liu**
Front. Astron. Space Sci. 9:1037863. 2022
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https://www.frontiersin.org/articles/10.3389/fspas.2022.1037863/pdf

Exploring the Limits of Synthetic Creation of Solar EUV Images via Image-to-image Translation
Valentina Salvatelli**1,2,3, Luiz F. G. dos Santos4, Souvik Bose5,6,7,8, Brad Neuberg1,2,9, Mark C. M. Cheung7, Miho Janvier10, Meng Jin2,7, Yarin Gal11, and Atilim Güneş Baydin12**
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Magnetic Helicity Flux Oscillations in the Atmospheres of Flaring and Nonflaring Active Regions
M. B. Korsós**1,2,3, R. Erdélyi2,3,4, X. Huang5, and H. Morgan1**
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Data-driven modeling of solar coronal magnetic field evolution and eruptions
Chaowei Jiang**, Xueshang Feng, Yang Guo, Qiang Hu**
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Coronal Mass Ejections and Dimmings: A Comparative Study Using MHD Simulations and SDO Observations
Meng Jin**1,2, Mark C. M. Cheung1, Marc L. DeRosa1, Nariaki V. Nitta1, and Carolus J. Schrijver1**
2022 **ApJ 928 154**
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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**
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Magnetic imprints of eruptive and non-eruptive Solar flares as observed by Solar Dynamics Observatory
N. Vasantharaju**, P. Vemareddy, B. Ravindra, V. H. Doddamani**
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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**
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Quasi-Periodic Pulsations Detected in Lyα and Nonthermal Emissions During Solar Flares
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Magnetic Flux and Magnetic Non-potentiality of Active Regions in Eruptive and Confined Solar Flares
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Space Science Reviews volume 217, Article number: 66 (2021**)**
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https://doi.org/10.1007/s11214-021-00840-9

Magnetic helicity and energy budget around large confined and eruptive solar flares
Manu Gupta**, J. K. Thalmann, A. M. Veronig**
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Relative field line helicity of a large eruptive solar active region
K. Moraitis**, S. Patsourakos, A. Nindos**
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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**
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Spatial and Temporal Analysis of 3 minute Oscillations in the Chromosphere Associated with the X2.2 Solar Flare on 2011 February 15
Laurel Farris **and R. T. James McAteer**
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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**
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On the seismic emission in sunspots associated with Lorentz force changes accompanying major solar flares
Hirdesh Kumar**, Brajesh Kumar**
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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**)**
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A New Parameter of the Photospheric Magnetic Field to Distinguish Eruptive-flare Producing Solar Active Regions
Pei Hsuan Lin**1, Kanya Kusano1, Daikou Shiota2, Satoshi Inoue1, K. D. Leka1,3, and Yuta Mizuno1**
2020 **ApJ 894 20**
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The Coronal Global Evolutionary Model: Using HMI Vector Magnetogram and Doppler Data to Determine Coronal Magnetic Field Evolution
J. Todd Hoeksema**, William P. Abbett, David J. Bercik, Mark C. M. Cheung, Marc L. DeRosa, George H. Fisher, Keiji Hayashi, Maria D. Kazachenko, Yang Liu, Erkka Lumme, Benjamine J. Lynch, Xudong Sun, Brian T. Welsch**
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M. B. Korsos**, M. K. Georgoulis, N. Gyenge, S. K. Bisoi, S. Yu, S. Poedts, C. J. Nelson, J. Liu, Y. Yan, R. Erdelyi**
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The PDFI_SS Electric Field Inversion Software
George H. Fisher**, Maria D. Kazachenko, Brian T. Welsch, Xudong Sun, Erkka Lumme, David J. Bercik, Marc L. DeRosa, Mark C. M. Cheung**
ApJS 248:2 (52pp) 2020
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ICME Evolution in the Inner Heliosphere Invited Review
J. G. Luhmann**, N. Gopalswamy, L. K. Jian & N. Lugaz**

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Electric current evolution at the footpoints of solar eruptions
Krzysztof Barczynski**, Guillaume Aulanier, Miho Janvier, Brigitte Schmieder, Sophie Masson**
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https://arxiv.org/pdf/2004.07990.pdf

Electric Current Neutralization in Solar Active Regions and Its Relation to Eruptive Activity
Ellis A. Avallone**, Xudong Sun**
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https://arxiv.org/pdf/2003.02814.pdf

Coronal Dimming as a Proxy for Stellar Coronal Mass Ejections
Meng Jin**, Mark C. M. Cheung, Marc L. DeRosa, Nariaki V. Nitta, Carolus J. Schrijver, Kevin France, Adam Kowalski, James P. Mason, Rachel Osten**
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https://arxiv.org/pdf/2002.06249.pdf

ENERGETIC PARTICLES IN THE SOLAR ATMOSPHERE Review
N. Vilmer**1 and S. Musset2**
SF2A-2019: Proceedings of the Annual meeting of the French Society of Astronomy and Astrophysics. Eds.: P. Di Matteo, O. Creevey, A. Crida, G. Kordopatis, J. Malzac, J.-B. Marquette, M. N'Diaye, O. Venot, 2019**, pp 283-289**
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Evolution of Coronal and Interplanetary Shock Waves Inferred from a Radio Burst
Khaled Alielden
Solar Physics October 2019**, 294:159**
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1493-8.pdf

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07:56 M1.1 вспышка; пересвет на STEREO-A, A=10*2/312=0,06
14:26 M1.6 вспышка; пересвет на STEREO-A, A=18*2/312=0,12
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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.**

ANALYSIS AND MODELING OF TWO FLARE LOOPS OBSERVED BY AIA AND EIS
Y. Li1,2,3, J. Qiu2, and M. D. Ding
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On the Nature and Genesis of EUV Waves: A Synthesis of Observations from SOHO, STEREO, SDO, and Hinode Review
Spiros Patsourakos **1 _ Angelos Vourlidas**
arXiv-print, 2012, File**; Solar Physics, Special Issue "The Sun in 360",2012,**

Plasma diagnostics of an EIT wave observed by Hinode/EIS and SDO/AIA
A.M. Veronig**, P. G?m?ry, I.W. Kienreich, N. Muhr, B. Vrsnak, M. Temmer, H.P. Warren**
E-print, 16 Nov 2011, File**; ApJ Lett** 2011 **743 L10**

SPECTROSCOPIC OBSERVATIONS OF A CORONAL MORETON WAVE
Louise K. Harra**1, Alphonse C. Sterling2,5, Peter Gömöry3 and Astrid Veronig**
2011 **ApJ 737 L4,** File

16-20 Feb
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

16-23 Feb
The distribution function of the average iron charge state at 1 AU: from a bimodal wind to ICME identification
C. Larrodera**, C. Cid**
Solar Phys. 2020
https://arxiv.org/pdf/2009.07596.pdf

17 Feb – 12:41– C2.4 вспышка; пересвет на STEREO-A, A=7*2/314=0,044

17 Feb
Statistical Analysis of the Horizontal Divergent Flow in Emerging Solar Active Regions
Shin Toriumi**, Keiji Hayashi, Takaaki Yokoyama**
ApJ, 2014
http://arxiv.org/pdf/1408.2383v1.pdf

17-18 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 Feb – 06:36– C8.5 вспышка; пересвет на STEREO-A, A=19*2/314=0,121
10:16– M6.6 пересвет A=65*2/314=0,42 ←16s 8s→L/Rs=0,207
13:06 – M1.4 вспышка; пересвет на STEREO-A, A= 13*2/314=0.08
21:06- M1.3 вспышка; пересвет на STEREO-A, A= 21*2/314=0.13

February 18: Геомагнитная буря Dst~-32 nT от вспышки 15-ого, Форбуш ~5.2%
Центральная M6.6 вспышка без существенных эруптивных проявлений.
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Impulsive Solar Energetic Particle Events: EUV Waves and Jets **MINI** REVIEW
R. Bucik
Front. Astron. Space Sci. 9? 807961 2021
https://doi.org/10.3389/fspas.2021.807961
https://arxiv.org/abs/2112.14282

Ying D. Liu**, Chong Chen, Xiaowei Zhao**
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https://arxiv.org/pdf/2006.09699.pdf

Velocity Structure and Temperature Dependence of Extreme-Ultraviolet Jet Observed by Hinode
Toshiki Kawai**, Natsuo Kanda, Shinsuke Imada**
Solar Phys. 2019
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3He-rich Solar Energetic Particles from Sunspot Jets
Radoslav Bučík**1,2, Mark E. Wiedenbeck3, Glenn M. Mason4, Raúl Gómez-Herrero5, Nariaki V. Nitta6, and Linghua Wang7**
2018 **ApJL 869 L21**
sci-hub.tw/10.3847/2041-8213/aaf37f
https://arxiv.org/pdf/1812.07735.pdf

Torsional Alfvén Wave Embedded ICME Magnetic Cloud and Corresponding Geomagnetic Storm
Anil N. Raghav**1, Ankita Kule1, Ankush Bhaskar2,3, Wageesh Mishra4, Geeta Vichare5, and Shobha Surve6**
2018 **ApJ 860 26** **DOI** **10.3847/1538-4357/aabba3**

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

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

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

СОЛНЕЧНЫЕ МИКРОВСПЛЕСКИ 18 ФЕВРАЛЯ 2011
Гофман **А.А.1, Богод В.М.2, Яснов Л.В.1, Ступишина О.М.1, Ступишин А.Г.**
Пулково ***«Солнечная и солнечно-земная физика** – 2015», с.89*

On the Nature of the EUV Late Phase of Solar Flares
Y. Li**, M. D. Ding, Y. Guo, Y. Dai**
E-print, July 2014; ApJ, 2014
http://arxiv.org/pdf/1407.6041v1.pdf

ON THE ORIGIN OF THE EXTREME-ULTRAVIOLET LATE PHASE OF SOLAR FLARES
Kai Liu**1,2, Jie Zhang2, Yuming Wang1, and Xin Cheng**
2013 **ApJ 768 150**

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

20 Feb
Homogenising SoHO/EIT and SDO/AIA 171Å Images: A Deep Learning Approach
Subhamoy **Chatterjee**, Andrés Muñoz-Jaramillo, Maher Dayeh, Hazel M. Bain, Kimberly Moreland
ApJS **268** 33 **2023**
https://arxiv.org/pdf/2308.10322.pdf
https://iopscience.iop.org/article/10.3847/1538-4365/ace9d7/pdf

23 Feb
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

24 Feb – 07:31– M3.5 вспышка; пересвет на STEREO-B, B=34*2/294=0,23
19:36– C2.7 вспышка; пересвет на STEREO-B, B=11*2/294=0,074

February 24, 07:35 : E-limb M3.3 flare с эрупцией волокна или серджа; глобальная корональная волна **на STEREO-B и также на PROBA-2; заметный CME**

Observations of a Flare-ignited broad Quasi-periodic Fast-propagating wave train

The physics of solar spectral imaging observations in dm-cm wavelengths and the application on space weather
Review
Baolin **Tan**, Yihua Yan, Jing Huang, Yin Zhang, Chengming Tan, Xiaoshuai Zhu
Advance in Space Research, **2023**
https://arxiv.org/ftp/arxiv/papers/2311/2311.14360.pdf

Turbulence in Sources of Decimetric Flare Continua
Marian **Karlický**
Solar Physics volume 298, Article number: 95 (**2023**)
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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

Why "solar tsunamis" rarely leave their imprints in the chromosphere
Ruisheng **Zheng**, Yihan Liu, Wenlong Liu, Bing Wang, Zhenyong Hou, Shiwei Feng, Xiangliang Kong, Zhenghua Huang, Hongqiang Song, Hui Tian, Pengfei Chen, Robertus Erdélyi, Yao Chen
ApJ **2023**
https://arxiv.org/pdf/2304.14859.pdf

Xinping Zhou**, Yuandeng Shen, Ying D. Liu, Huidong Hu, Jiangtao Su, Zehao Tang, Chengrui Zhou, Yadan Duan, Song Tan**
ApJL 2022
https://arxiv.org/pdf/2204.05603.pdf

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

Magnetic Field, Electron Density and Their Spatial Scales in Zebra Pattern Radio Sources
L. V. Yasnov **& M. Karlický**
Solar Physics volume 295, Article number: 96 (2020**)**
https://link.springer.com/content/pdf/10.1007/s11207-020-01652-w.pdf

Development of a Fast CME and Properties of a Related Interplanetary Transient
V. V. Grechnev**, A. A. Kochanov, A. M. Uralov, V. A. Slemzin, D. G. Rodkin, F. F. Goryaev, V. I. Kiselev, I. I. Myshyakov**
Solar Physics **October** 2019**, 294:139**
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1529-0.pdf

Burst locating capability of the Korean Solar Radio Burst Locator (KSRBL)
J-E Hwangbo**, Su-Chan Bong, Show all 7 authors, Young-Deuk Park**
Journal of Astronomy and Space Science 32(1):91-99, 2015
https://www.researchgate.net/publication/275227108_Burst_locating_capability_of_the_Korean_Solar_Radio_Burst_Locator_KSRBL

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

Spatially inhomogeneous acceleration of electrons in solar flares
Duncan J. Stackhouse**, Eduard P. Kontar**
A&A 2018
https://arxiv.org/pdf/1801.04743.pdf

Relationship of EUV Irradiance Coronal Dimming Slope and Depth to Coronal Mass Ejection Speed and Mass
James Paul Mason, Thomas N. Woods, David F. Webb, Barbara J. Thompson, Robin C. Colaninno,Angelos Vourlidas
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Constraints on energy release in solar flares from RHESSI and GOES X-ray observations
I. Physical parameters and scalings
A. Warmuth **and G. Mann**
A&A 588, A115 (2016)
http://www.aanda.org/articles/aa/pdf/2016/04/aa27474-15.pdf

В. Гречнев, **С. Калашников, А. Уралов, Степанов_конф. 2013. Постер**
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Grechnev, PASJ paper eruptive-view, 2013
Grechnev, NOBE-12, Presentation
Grechnev, FIAN-11, Presentation

Responsibility of a Filament Eruption for the Initiation of a Flare, CME, and Blast Wave, and its Possible Transformation into a Bow Shock
V. V. Grechnev **(1), A. M. Uralov (1), I. V. Kuzmenko (2), A. A. Kochanov (1), I. M. Chertok (3), S. S. Kalashnikov**
Solar Phys., 2014
http://arxiv.org/pdf/1410.8696v1.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

Well-observed Dynamics of Flaring and Peripheral Coronal Magnetic Loops during an M-class Limb Flare
Jinhua Shen**1, Tuanhui Zhou2,3, Haisheng Ji2,3, Thomas Wiegelmann4, Bernd Inhester4, and Li Feng**
2014 **ApJ 791 83**

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

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

О пространственных наблюдениях радиоисточников тонкой структуры солнечных радиовсплесков
Чернов **Г.П., Фомичев В.В., Сыч Р.А., Yan Yihua, Fu Qijun, Жданов Д.А.**
ИКИ-2014**, Сессия: Солнце**
http://plasma2014.cosmos.ru/presentations

RHESSI Heliophysics Senior Review 2013
Samuel Krucker**, Brian Dennis, Manfred Bester, Laura Peticolas**
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THE KELVIN-HELMHOLTZ INSTABILITY AT CORONAL MASS EJECTION BOUNDARIES IN THE SOLAR CORONA: OBSERVATIONS AND 2.5D MHD SIMULATIONS
U. V. Möstl**, M. Temmer, and A. M. Veronig**
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Too few? Too many?
Simoes**, P. J. A. and Kontar, E. P.**
RHESSI Science Nugget, No. 200, 2013
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Too_few%3F_Too_many%3F

Implications for electron acceleration and transport from non-thermal electron rates at looptop and footpoint sources in solar flares
Simoes**, P. J. A. and Kontar, E. P.**
E-print, Feb 2013**; A&A 551, A135 (**2013**)**

RHESSI AND SDO/AIA OBSERVATIONS OF THE CHROMOSPHERIC AND CORONAL PLASMA PARAMETERS DURING A SOLAR FLARE
M. Battaglia**1,2 and E. P. Konta**
E-print, Oct 2012; 2012 **ApJ 760 142**

THE HEIGHT OF A WHITE-LIGHT FLARE AND ITS HARD X-RAY SOURCES
Juan-Carlos Martínez-Oliveros**1, Hugh S. Hudson1,2, Gordon J. Hurford1,3, Säm Krucker1,3, R. P. Lin1,4,5, Charles Lindsey6, Sebastien Couvidat7, Jesper Schou7, and W. T. Thompson**
2012 **ApJ 753 L26**

INITIATION OF CORONAL MASS EJECTION AND ASSOCIATED FLARE CAUSED BY HELICAL KINK INSTABILITY OBSERVED BY SDO/AIA
Pankaj Kumar**, K.-S. Cho1,2,3, S.-C. Bong1, Sung-Hong Park1 and Y. H. Kim**
2012 **ApJ 746 67,** File

Charge-exchange Limits on Low-energy α-particle Fluxes in Solar Flares
Hudson, H. S.; Fletcher, L.; MacKinnon, A. L.; Woods, T. N.
E-print, Feb 2014**; ApJ 752, 84 (**2012**)**
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Hugh Hudson **and Juan Carlos Martinez Oliveros**
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http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/A_Flare_in_3D

EVE/ESP and the Neupert Effect
H. Hudson
RHESSI Science Nugget, 9 May 2011
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24-26 Feb
Identification of Hot Plasma Anomalies in Solar Wind Using Fe Ion Charge Distributions
Farid F. Goryaev**, Vladimir Slemzin, and Denis Rodkin**
2020 **ApJL 905 L17**
https://doi.org/10.3847/2041-8213/abcc76
https://doi.org/10.3847/2041-8213/abcc76

25 Feb
Direct Evidence for Magnetic Reconnection in a Solar EUV Nanoflare
Artem S. Ulyanov**, Sergey A. Bogachev, Ivan P. Loboda, Anton A. Reva, Alexey S. Kirichenko**
Solar Physics September 2019**, 294:128**
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1472-0.pdf
sci-hub.se/10.1007/s11207-019-1472-0

February 26:
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

Solar origin of in-situ near-relativistic electron spikes observed with SEPT/STEREO
A. Klassen**, R. G?mez-Herrero, B. Heber, Y. Kartavykh, W. Dr?ge, K.-L. Klein**
E-print, April 2012**; A&A**

27 Feb
A Small-scale Eruption Leading to a Blowout Macrospicule Jet in an On-disk Coronal Hole
Mitzi Adams**, Alphonse C. Sterling, Ronald L. Moore, and G. Allen Gary**
2014 **ApJ 783 11**

28 Feb – 07:41– C2.4 вспышка; пересвет на STEREO-B, B=7,5*2/295=0,051
13:01– M1.1 вспышка; пересвет на STEREO-B, B=12*2/295=0,08 Виден плохо на фоне.

Feb 28

Reconciliation of Observational Challenges to the Impulsive-Piston Shock-Excitation Scenario. II. Shock Waves Produced in CME-less Events with a Null-Point Topology.
Grechnev**, V.V., Kiselev, V.I., Uralov, A.M., Myshyakov, I.I.:**
Solar Phys., 2022, File See movies of 16 Apr 2014

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**

A Type II Radio Burst without a Coronal Mass Ejection
W. Su**, X. Cheng, M. D. Ding, P. F. Chen, J.Q. Sun**
ApJ 2015
http://arxiv.org/pdf/1503.00861v1.pdf

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

Coronal Cavity Survey: Morphological Clues to Eruptive Magnetic Topologies
B. C. Forland**, S. E. Gibson, J. B. Dove, L. A. Rachmeler, Y. Fan**
Solar Phys (2013**) 288:603–615**

Feb-March 2011 (CR 2107)
Tuning the Exo-Space Weather Radio for Stellar Coronal Mass Ejections
Julián D. Alvarado-Gómez **(1 and 2), Jeremy J. Drake (2), Federico Fraschetti (2 and 3), Cecilia Garraffo (2 and 4), Ofer Cohen (5), Christian Vocks (1), Katja Poppenhäger (1), Sofia P. Moschou (2), Rakesh K. Yadav (6), Ward B. Manchester IV (7)**
ApJ 2020
https://arxiv.org/pdf/2004.05379.pdf

March 2011 AR 11166

High-Speed Solar Wind Streams and Geomagnetic Storms During Solar Cycle 24
M. Gerontidou**, H. Mavromichalaki, T. Daglis**
Solar Physics September 2018**, 293:131**
https://link.springer.com/article/10.1007/s11207-018-1348-8

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

March 1 – **хорошая геобуря от КД**

March 1, 02-05 UT: **C6.0 LDE вспышка с приличной эрупцией и корональной волной.**
- Определены контуры диммингов и аркад по SDO/AIA, 193A
- Сопоставлены площадки диммингов и аркад по файлам SOHO/EIT, 195 A и SDO/AIA, 193A с 12-часовым интервалом.

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

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

An extreme ultraviolet wave associated with a failed eruption observed by the Solar Dynamics Observatory⋆
R. Zheng**, Y. Jiang, J. Yang, Y. Bi, J. Hong, B. Yang and D. Yang**
A&A 541, A49 (2012**),** File

1-2 March
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

2 Mar

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

Distinguishing between Flaring and Non-Flaring Active Regions: A Machine Learning Perspective
Soumitra Hazra**, Gopal Sardar, Partha Choudhuri**
A&A 2020
https://arxiv.org/pdf/2003.03878.pdf

March 3: **A partial halo CME was observed in LASCO and STEREO images after 05:30. There was no apparent filament eruption and the source of this CME appears to have been to the southeast of the center of the visible disk.**

See
http://solar.gmu.edu/wiki/presentations/ISEST_2015_workshop/WG1_data/Nitta_stealthy_sun_earth_events.pdf

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

The Magnetic Environment of a Stealth Coronal Mass Ejection
Jennifer O'Kane**, Cecilia Mac Cormack, Cristina H. Mandrini, Pascal Démoulin, Lucie M. Green, David M. Long, Gherardo Valori**
ApJ 2020
https://arxiv.org/pdf/2012.03757.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

Stealth Coronal Mass Ejections from Active Regions
Jennifer O'kane**, Lucie Green, David M. Long, Hamish Reid**
ApJ Volume 882, Issue 2, article id. 85, 2019
https://arxiv.org/pdf/1907.12820.pdf

Source Region of the Decameter–Hectometric Type II Radio Burst: Shock–Streamer Interaction Region
Chenglong Shen**1 , Chijian Liao1, Yuming Wang1, Pinzhong Ye1 and Shui Wang**
Solar Physics, 2012**, doi 10.1007/s11207-012-0161-z,** File

Coronal Mass Ejections from Magnetic Systems Encompassing Filament Channels Without Filaments
Alexei A. Pevtsov**, Olga Panasenco and Sara F. Martin**
Solar Physics, Volume 277, Number 1, 185-201, 2012, File

3-6 March
Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures
Nariaki V. Nitta**, Tamitha Mulligan**
Solar Physics September 2017**, 292:125** File

5 March

Improved AI-generated Solar Farside Magnetograms by STEREO and SDO Data Sets and Their Release
Hyun-Jin Jeong1, Yong-Jae Moon1,2, Eunsu Park3, Harim Lee2, and Ji-Hye Baek3,4
2022 **ApJS 262 50**
https://iopscience.iop.org/article/10.3847/1538-4365/ac8d66/pdf

Investigation of the Moving Structures in a Coronal Bright Point
Zongjun Ning**1,2 and Yang Guo**
2014 **ApJ 794 79**

5-10 Mar

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

6 March – 09:58, C3.1 ; пересвет на **STEREO-A A=8*2/314=0.051**
10:36, C7.5 ; пересвет на **STEREO-A A=12*2/314=0.076**
14:43, C8.6 ; пересвет на **STEREO-A A=23*2/314=0.146**

6 March
Evaluating (and Improving) Estimates of the Solar Radial Magnetic Field Component from Line-of-Sight Magnetograms
K.D. Leka**, G. Barnes, E. L. Wagner**
Solar Phys. 2017
https://arxiv.org/pdf/1701.04836v1.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

6-11 March

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

ON THE INJECTION OF HELICITY BY THE SHEARING MOTION OF FLUXES IN RELATION TO FLARES AND CORONAL MASS EJECTIONS
P. Vemareddy**1, A. Ambastha1, R. A. Maurya2, and J. Chae**
2012 **ApJ 761 86**

7 March – 05:11, M1.2 ; пересвет на **STEREO-A A=12*2/314=0.08**
07:53– M1.5 вспышка; пересвет на STEREO-A, **A=47*2/314=0,30**
08:06 – M1.4 пересвет на **STEREO-A A=20.5*2/314=0.08=0.13**
09:21 – M1.8 пересвет на **STEREO-A A=8*2/314=0.05 Сомнительный?**
10:18, C4.9 ; пересвет на **STEREO-A A=11*2/314=0.07**
14:56 –M1.9 пересвет на **STEREO-B B=14*2/296=0.09**
20:00 –M3.7 пересвет на **STEREO-A A=43*2/314=0.27**

March 7: значительная активность
14:30 **– SDO - заметная северо-центральная эрупция и M1.9 вспышка в AO 1166 (N10E18),**
CME; STEREO-B - хорошо видна на NW лимбе с существенным CME.
20:12 – SDO – значительная NW-лимб эрупция с мощным выбросом **и M3.7 вспышка в AO 1164 (N23W~70), мощный CME; Хорошо видно на STEREO-A с** глобальной корональной волной. Протонное возрастание. Prolonged gamma
A coronal mass ejection (CME) exploded from the vicinity of sunspot 1164 during the late hours of March 7th. It leapt away from the sun traveling ~2200 km/s, **making it the fastest CME since Sept. 2005.**

Non-Neutralized Electric Currents as a Proxy for Eruptive Activity in Solar Active Regions
Y.**LIU**, T.TO˙RO˙K, V.S.TITOV, J.E.LEAKE, X.SUN (孙旭东), M.JIN
ApJ **2023**
http://sun.stanford.edu/~yliu/papers/neutralization_finalVersion.pdf

Ожередов В.А., Струминский А.Б. Статистическая модель ускорения КВМ
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

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

The Hyper-inflation Stage in the Coronal Mass Ejection Formation: A Missing Link That Connects Flares, Coronal Mass Ejections, and Shocks in the Low Corona
Laura A. Balmaceda**1,2, Angelos Vourlidas3, Guillermo Stenborg3, and Ryun-Young Kwon4**
2022 **ApJ 931 141**
https://iopscience.iop.org/article/10.3847/1538-4357/ac695c/pdf

A Time-dependent Self-similar Reconstruction of Solar Coronal Mass Ejections Based on the Gibson–Low Model
Xinghua Dai**1**
2022 **ApJ 925 24**
https://iopscience.iop.org/article/10.3847/1538-4357/ac3eda/pdf

Predicted free–free emission at radio wavelengths from Coronal Mass Ejections: event on 2011 March 7
Daniela Montes-Doria**, Ricardo F González, Jorge Cantó, Stanley Kurtz**
MNRAS, Volume 509, Issue 2, January 2022**, Pages 1892–1898,**
https://doi.org/10.1093/mnras/stab3085

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

Impulsive and Gradual Eruptive Gamma Flares and Associated CMEs
Alexei Struminsky, **Irina GRIGORIEVA and Andrei SADOVSKI**
RHESSI Nuggets **#413** 2021
https://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Impulsive_and_Gradual_Eruptive_Gamma_Flares_and_Associated_CMEs

НЕКОТОРЫЕ ОСОБЕННОСТИ СОЛНЕЧНЫХ ПРОТОННЫХ СОБЫТИЙ 7.III.2011 И 20.II.2014

ВЛАСОВА **Н. А.*1, ТУЛУПОВ В. И.1, КАЛЕГАЕВ В. В.1**
КОСМИЧЕСКИЕ ИССЛЕДОВАНИЯ Том: 59 Номер: 4 Год: 2021 **Страницы: 296-305**
DOI: 10.31857/S0023420621040063

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

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

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

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

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

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

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

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

Simulating Solar Coronal Mass Ejections constrained by Observations of their Speed and Poloidal flux
Talwinder Singh**, Mehmet Sarp Yalim, Nikolai Pogorelov, Nat Gopalswamy**
2019
https://arxiv.org/pdf/1904.00140.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

Synthetic Radio Imaging for Quiescent and CME-flare Scenarios
Sofia-Paraskevi Moschou **(1), Igor Sokolov (2), Ofer Cohen (3), Jeremy J. Drake (1), Dmitry Borovikov (4), Justin C. Kasper (2), Julian D. Alvarado-Gomez (1),Cecilia Garraffo**
ApJ 2018
https://arxiv.org/pdf/1809.09750.pdf

Extended MHD modeling of the steady solar corona and the solar wind Review
Tamas I. Gombosi**, Bart van der Holst, Ward B. Manchester, Igor V. Sokolov**
Living Reviews in Solar Physics **December** 2018**, 15:4**
https://link.springer.com/content/pdf/10.1007%2Fs41116-018-0014-4.pdf
https://arxiv.org/pdf/1807.00417.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
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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**

The density compression ratio of shock fronts associated with coronal mass ejections
Ryun-Young Kwon**, Angelos Vourlidas**
Journal of Space Weather and Space Climate 2018
https://arxiv.org/pdf/1801.04355.pdf

Analysis of Solar Gamma Rays and Solar Neutrons detected on March 7th and September 25th of 2011 by Ground Level Neutron Telescopes, SEDA-FIB and FERMI-LAT
Y. Muraki**, J.V. Galicia, X. Gonzalez, K. Kamiya, Y. Katayose, K. Koga, H. Matsumoto, S. Masuda, Y. Matsubara, Y. Nagai, M. Ohnishi, S. Ozawa, T. Sako, S. Shibata, M. Takita, Y. Tanaka, H. Tsuchiya, K. Watanabe and J. Zhang**
Proc. of 35th International Cosmic Ray Conference — ICRC2017 10–20 July, 2017 **Bexco, Busan, Korea**
https://pos.sissa.it/301/136/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

Investigating the Wave Nature of the Outer Envelope of Halo Coronal Mass Ejections
Ryun-Young Kwon**1,3 and Angelos Vourlidas2**
2017 **ApJ 836 246**
http://sci-hub.cc/doi/10.3847/1538-4357/aa5b92

Chromosphere to 1 AU Simulation of the 2011 March 7th Event: A Comprehensive Study of Coronal Mass Ejection Propagation
M. Jin**, W. B. Manchester, B. van der Holst, I. Sokolov, G. Toth, A. Vourlidas, C. A. de Koning, T. I. Gombosi**
ApJ 2016
https://arxiv.org/pdf/1611.08897v1.pdf

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

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

EUV Irradiance Observations from SDO/EVE as a Diagnostic of Solar Flares
Ryan O. Milligan
Conference proceedings for the symposium on "Solar and Stellar Flares and their Effects on the Planets" at the IAU General Assembly in Honolulu, HI, August 2015
http://arxiv.org/pdf/1604.07793v1.pdf

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

Is flux rope a necessary condition for the progenitor of coronal mass ejections?
Y. Ouyang**, K. Yang, P. F. Chen**
ApJ 2015
http://arxiv.org/pdf/1511.01605v1.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

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

Radial and Azimuthal Oscillations of Halo Coronal Mass Ejections in the Sun
Harim Lee**1, Y.-J. Moon1, and V. M. Nakariakov**
2015 **ApJ 803 L7**
http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/2041-8205_803_1_L7.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

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

Solar Cosmic Rays, Neutrons, and Fermi Gamma-Rays,
Hugh Hudson **and Alec MacKinnon**
RHESSI Science Nuggets, No. 227, May, 2014**:**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Solar_Cosmic_Rays,_Neutrons,_and_Fermi_Gamma-Rays

> 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

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?

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**
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NUMERICAL SIMULATIONS OF CORONAL MASS EJECTION ON 2011 MARCH 7: ONE-TEMPERATURE AND TWO-TEMPERATURE MODEL COMPARISON
M. Jin**1, W. B. Manchester1, B. van der Holst1, R. Oran1, I. Sokolov1, G. Toth1, Y. Liu2, X. D. Sun2, and T. I. Gombosi**
2013 **ApJ 773 50**

SoFAST: Automated Flare Detection with the PROBA2/SWAP EUV Imager
K. Bonte**, D. Berghmans, A. De Groof, K. Steed, S. Poedts**
Solar Physics, August 2013**, Volume 286, Issue 1, pp 185-199**

Observations of intensity oscillations in a prominence-like cool loop system as observed by SDO/AIA: evidence of multiple harmonics of fast magnetoacoustic waves
Srivastava**, A. K.; Dwivedi, B. N.; Kumar, Mukul**
Astrophysics and Space Science, Volume 345, Issue 1, pp.25-32, 2013

Measurement by FIB on the ISS: Two Emissions of Solar Neutrons Detected?
Y. Muraki**,1 K. Koga,2 T. Goka,2,3 H. Matsumoto,2 T. Obara,2,4 O. Okudaira,2 S. Shibata,5 and T. Yamamoto**
Advances in Astronomy, Volume 2012 (2012**), Article ID 379304, 14 pages**
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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 HEIGHT EVOLUTION OF THE "TRUE" CORONAL MASS EJECTION MASS DERIVED FROM STEREO COR1 AND COR2 OBSERVATIONS
B. M. Bein**1, M. Temmer1, A. Vourlidas2, A. M. Veronig1, and D. Utz**
2013 **ApJ 768 31;** File

Source Region of the Decameter–Hectometric Type II Radio Burst: Shock–Streamer Interaction Region
Chenglong Shen**1 , Chijian Liao1, Yuming Wang1, Pinzhong Ye1 and Shui Wang**
Solar Physics, February 2013**, Volume 282, Issue 2, pp 543-552,** File

THE DRIVER OF CORONAL MASS EJECTIONS IN THE LOW CORONA: A FLUX ROPE
X. Cheng**1,2,3, J. Zhang2, M. D. Ding1,3, Y. Liu4,5, and W. Poomvises**
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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.**

DIFFERENTIAL EMISSION MEASURE ANALYSIS OF MULTIPLE STRUCTURAL COMPONENTS OF CORONAL MASS EJECTIONS IN THE INNER CORONA
X. Cheng**1,2,3, J. Zhang2, S. H. Saar4, and M. D. Ding**
2012 **ApJ 761 62**

A CORONAL HOLE'S EFFECTS ON CORONAL MASS EJECTION SHOCK MORPHOLOGY IN THE INNER HELIOSPHERE
B. E. Wood**1, C.-C. Wu1, A. P. Rouillard2,3, R. A. Howard1, and D. G. Socker**
2012 **ApJ 755 43**

7-10-12 Mar

Deep-learning Reconstruction of Sunspot Vector Magnetic Fields for Forecasting Solar Storms
Dattaraj B. Dhuri**1,2, Shamik Bhattacharjee1, Shravan M. Hanasoge1,2, and Sashi Kiran Mahapatra1**
2022 **ApJ 939 64**
https://iopscience.iop.org/article/10.3847/1538-4357/ac9413/pdf

Effects of Cowling Resistivity in the Weakly-Ionized Chromosphere
Mehmet Sarp Yalim**, Avijeet Prasad, Nikolai Pogorelov, Gary Zank, Qiang Hu**
ApJL 2020
https://arxiv.org/pdf/2007.12275.pdf

A data-driven MHD model of the weakly-ionized chromosphere
Mehmet Sarp Yalim**, Avijeet Prasad, Nikolai Pogorelov, Gary Zank, Qiang Hu**
Journal of Physics Conference Series - Proceedings of the 19th Annual International Astrophysics 2020
https://arxiv.org/pdf/2007.12361.pdf

8 March – 02:31 – M1.3 ; пересвет на STEREO-A, A=12*2/314= 0.08 На рисунке ~C8

04:16 – M1.5; пересвет на STEREO-B B=19*2/297=0,13
10:43 – M5.3 вспышка; пересвет на STEREO-A, A=58*2/314=0,37
18:36 – M4.4 вспышка; пересвет на STEREO-A, A=44*2/314=0,28

March 8: значительная активность
03:58 – **SDO – SE лимб эрупция и M1.5 вспышка в AO 1171, крупный CME;**
Хорошо видно на STEREO-B с глобальной корональной волной
10:44 - **SDO – короткая SW -limb M5.3 вспышка в AO 1165 без CME;**
18:28 - **SDO – короткая SW -limb M4.4 вспышка в AO 1165, видимо, тоже без CME;**
20:16 – LDE **SW -limb M1.4 вспышка в AO 1165 с крупным CME; видно на STEREO-A**

Modelling the propagation of coronal mass ejections with COCONUT: implementation of the Regularized Biot-Savart Laws flux rope model
Jinhan **Guo**, L. Linan, S. Poedts, Y. Guo, A. Lani, B. Schmieder, M. Brchnelova, B. Perri, T. Baratashvili, Y. W. Ni, P. F. Chen
A&A **2023**
https://arxiv.org/pdf/2311.13432.pdf

A Three-Dimensional Velocity of an Erupting Prominence Prior to a Coronal Mass Ejection
Maria V. Gutierrez, **Kenichi Otsuji**, **Ayumi Asai**, **Raul Terrazas**, **Mutsumi Ishitsuka**, **Jose Ishitsuka**, **Naoki Nakamura**, **Yusuke Yoshinaga**, **Satoshi Morita**, **Takako T. Ishii**, **Satoru UeNo**, **Reizaburo Kitai**, **Kazunari Shibata**
PASJ 2021
https://arxiv.org/pdf/2101.08575.pdf

Decoding the Pre-Eruptive Magnetic Field Configurations of Coronal Mass Ejections Review
S. Patsourakos, **A. Vourlidas**, **T. Török**, **B. Kliem**, **S. K. Antiochos**, **V. Archontis**, **G. Aulanier**, **X. Cheng**, **G. Chintzoglou**, **M.K. Georgoulis**, **L.M. Green**, **J. E. Leake**, **R. Moore**, **A. Nindos**, **P. Syntelis**, **S. L. Yardley**, **V. Yurchyshyn**, **J. Zhang**
Space Science Reviews 2020
https://arxiv.org/pdf/2010.10186.pdf File

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

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

Polarimetric Reconstruction of Coronal Mass Ejections from LASCO-C2 Observations
O. Floyd, **P. Lamy**
Solar Physics **November** 2019, **294:168**
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Coronal magnetic field value radial distributions obtained by using the information on fast halo coronal mass ejections
V.G. Fainshtein, **Ya.I.Egorov**
Solar Phys. 2017
https://arxiv.org/pdf/1712.09046.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

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

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

First Simultaneous Views of the Axial and Lateral Perspectives of a Coronal Mass Ejection
I. Cabello **, H. Cremades, L. Balmaceda, I. Dohmen**
Solar Phys. 2016 File

Emission Measure and Temperature Analysis of the Upper Coronal Source of a Solar Flare
Z. Ning **, D. Li, Q. M. Zhang**
Solar Physics 2016

Undamped transverse oscillations of coronal loops as a self-oscillatory process
Nakariakov**, V. M., Anfinogentov, S., Nistico, G., Lee, D.-H.**
A&A, Letter 2016
http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/Nakariakov_rev_two columns.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
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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

Initiation of CMEs associated with filament eruption, and the nature of CME related shocks
V.G. Fainshtein**, , Ya.I. Egorov**
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Byrne**, J. P., Morgan, H., Seaton, D. B., Bain, H. M., Habbal, S. R.**
E-print, June 2014**; Solar Phys.**
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K. Bonte**, D. Berghmans, A. De Groof, K. Steed, S. Poedts**
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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 DRIVER OF CORONAL MASS EJECTIONS IN THE LOW CORONA: A FLUX ROPE
X. Cheng**1,2,3, J. Zhang2, M. D. Ding1,3, Y. Liu4,5, and W. Poomvises**
2013 **ApJ 763 43**

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**
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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

DIFFERENTIAL EMISSION MEASURE ANALYSIS OF MULTIPLE STRUCTURAL COMPONENTS OF CORONAL MASS EJECTIONS IN THE INNER CORONA
X. Cheng**1,2,3, J. Zhang2, S. H. Saar4, and M. D. Ding**
2012 **ApJ 761 62**

GROWING TRANSVERSE OSCILLATIONS OF A MULTISTRANDED LOOP OBSERVED BY SDO/AIA
Tongjiang Wang**1,2, Leon Ofman1,2,4, Joseph M. Davila2, and Yang Su**
2012 **ApJ 751 L27**

Observation of An Evolving Magnetic Flux Rope Prior To and During A Solar Eruption
J. Zhang**, X. Cheng, and M. D. Ding**
E-print, March 2012**, Nature Communications www.nature.com/naturecommunications**
http://spaceweather.gmu.edu/xcheng/paper/Zhang_Cheng_Ding_2012.pdf

Rapid Cavity Formation and Expansion in CMEs
Bernhard Kliem, Terry G. Forbes, Spiros Patsourakos, Angelos Vourlidas
UKSP Nugget, Feb **2012**
http://www.uksolphys.org/?p=4161

OBSERVATIONS OF A TWO-STAGE SOLAR ERUPTIVE EVENT (SEE): EVIDENCE FOR SECONDARY HEATING
Yang Su**1,2,3, Brian R. Dennis1, Gordon D. Holman1, Tongjiang Wang1,2, Phillip C. Chamberlin1, Sabrina Savage1 and Astrid Veronig**
2012 **ApJ 746 L5,** File

NEW SOLAR EXTREME-ULTRAVIOLET IRRADIANCE OBSERVATIONS DURING FLARES

Thomas N. Woods1,9, Rachel Hock1, Frank Eparvier1, Andrew R. Jones1, Phillip C. Chamberlin2, James A. Klimchuk2, Leonid Didkovsky3, Darrell Judge3, John Mariska4, Harry Warren4, Carolus J. Schrijver5, David F. Webb6, Scott Bailey7 and W. Kent Tobiska
2011 **ApJ 739 59**

Two-Stage SEE shows reconnection
Yang Su and Brian Dennis:
RHESSI science nugget No. 158, 8 Sept 2011
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Two-stage_SEE_Shows_Reconnection

8-11 Mar

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

9 March – 08:56 –C9.4 вспышка; пересвет на STEREO-A, **A=7*2/314=0,05**
11:11 – M1.7 вспышка; пересвет на STEREO-A, **A=14,5*2/314=0,09**
14:16– M1.7 пересвет A=17,5*2/314=0,11 <—16s 8s→L/Rs=0.056
22:16 – C9.4 пересвет **A=18,5*2/314=0,12 <—16s 8s→ 22:11 L/Rs=17*2/314=0,108**
23:26 – X1.5 вспышка; пересвет на STEREO-A, **A=43*2/314=0,27**

March 9: - 10:40: M1.7 вспышка, восточная корональная волна
На кадре 22:44 З**аметное** поглощение **на** SDO/304 A
23:12 – импульсная центральная X1.5/2B вспышка **в АО 1166 (N08W09);**

Solar Energetic Particle Events and Radio Bursts **Review**
Nat **Gopalswamy**
Proc. UN/Germany workshop on the International Space Weather Initiative: Preparing for the Solar Maximum, 10-14 June, 2024 **2024**
https://arxiv.org/pdf/2410.08690 **File**

Non-Neutralized Electric Currents as a Proxy for Eruptive Activity in Solar Active Regions
Y.**LIU**, T.TO ̈RO ̈K, V.S.TITOV, J.E.LEAKE, X.SUN (孙旭东), M.JIN
ApJ **2023**
http://sun.stanford.edu/~yliu/papers/neutralization_finalVersion.pdf

Magnetic Imprints of Eruptive and Noneruptive Solar Flares as Observed by Solar Dynamics Observatory
N. Vasantharaju1,2, P. Vemareddy1, B. Ravindra1, and V. H. Doddamani3
2022 **ApJ 927 86**
https://iopscience.iop.org/article/10.3847/1538-4357/ac4d8c/pdf

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

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

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**

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

Differences in periodic magnetic helicity injection behaviour between flaring and non-flaring Active Regions: Case Study
M. B. Korsos**, P. Romano, H. Morgan, Y. Ye, R. Erdelyi, F. Zuccarello**
2020
https://arxiv.org/pdf/2006.07659.pdf

Solar Flare Prediction Using Magnetic Field Diagnostics Above the Photosphere
M. B. Korsos**, M. K. Georgoulis, N. Gyenge, S. K. Bisoi, S. Yu, S. Poedts, C. J. Nelson, J. Liu, Y. Yan, R. Erdelyi**
2020
https://arxiv.org/pdf/2005.12180.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

Two Types of Solar Confined Flares
Ting Li**, Lijuan Liu, Yijun Hou, Jun Zhang**
ApJS 2019
https://arxiv.org/pdf/1907.04510.pdf

A new small satellite sunspot triggering recurrent standard- and blowout-coronal jets
Yuhu Miao**, Y. Liu, Y. D. Shen, A. Elmhamdi, A. S. Kordi, H. B. Li, Z. Z. Abidin, Z. J. Tian**
ApJ 2019
https://arxiv.org/pdf/1904.05496.pdf

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

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

A coronal blowout jet assiciated with a jet-like CME and a bubble-like CME
Y. Miao**, Y. Liu, Y. Shen, A. Elmhamdi, S. Kordi**
2017
https://arxiv.org/pdf/1703.10022.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

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

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

Radiative hydrodynamic modelling and observations of the X-class solar flare on 2011 March 9
Michael B. Kennedy**, Ryan O. Milligan, Joel C. Allred, Mihalis Mathioudakis, Francis P. Keenan**
A&A 2015
http://arxiv.org/pdf/1504.07541v1.pdf

Extreme Ultra-Violet Spectroscopy of the Flaring Solar Chromosphere Review
Ryan Milligan
Solar Physics, 2015
http://star.pst.qub.ac.uk/~rm/outgoing/milligan_solphys_2015.pdf

Quasi-Static 3D-Magnetic Field Evolution in Solar Active Region NOAA 11166 Associated with X1.5 Flare
P. Vemareddy**, and T. Wiegelmann**
E-print, July 2014**; ApJ**
http://arxiv.org/pdf/1406.7823v1.pdf

Constraining solar flare differential emission measures with EVE and RHESSI
Amir Caspi**, James M. McTiernan, Harry P. Warren**
E-print, May 2014**; ApJL**
http://www.ssl.berkeley.edu/~cepheid/eprints/Caspi_McTiernan_Warren_2014_ApJL.pdf
http://arxiv.org/pdf/1405.7068v1.pdf

A Study of Connections Between Solar Flares and Subsurface Flow Fields of Active Regions
Yu Gao**, Junwei Zhao, Hongqi Zhang**
Solar Physics, February 2014**, Volume 289, Issue 2, pp 493-502**

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

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**
E-print, May 2013, File; **Solar Physics, Solar Physics, November** 2013**, Volume 288, Issue 1, pp 241-254**

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**

Charge-exchange Limits on Low-energy α-particle Fluxes in Solar Flares
Hudson, H. S.; Fletcher, L.; MacKinnon, A. L.; Woods, T. N.
E-print, Feb 2014**; ApJ 752, 84 (**2012**)**
http://arxiv.org/pdf/1401.6477v1.pdf

March 10

A Quasi-periodic propagating wave and EUV waves excited simultaneously in a solar eruption event
Y. H. Miao**, Y. Liu, Y. D. Shen, H. B. Li, Z. Z. Abidin, A. Elmhamdi, A. S. Kordi**
ApJL 871 L2 2019
https://iopscience.iop.org/article/10.3847/2041-8213/aafaf9/pdf
https://arxiv.org/pdf/1812.09858.pdf
sci-hub.ru/10.3847/2041-8213/aafaf9

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

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

Extremely Microwave-Rich Solar Flare Observed with Nobeyama Radioheliograph
S. Masuda**, M. Shimojo, T. Kawate, S. Ishikawa, and M. Ohno**
Publ. Astron. Soc. Japan 65, 1 [6 pages] (2013**) http://pasj.asj.or.jp/v65/sp1/65S001/65S001.pdf**

11 March
Soft X-ray irradiance measured by the Solar Aspect Monitor on the Solar Dynamic Observatory Extreme ultraviolet Variability Experiment
C. Y. Lin**, S. M. Bailey, A. Jones, D. Woodraska, A. Caspi, T. N. Woods, F. G. Eparvier, S. R. Wieman, L. V. Didkovsky**
JGR 2016
http://arxiv.org/pdf/1605.01444v1.pdf

12 March – 04:41– M1.3 вспышка; пересвет на STEREO-A, **A=23*2/314=0,15**

March 12: 3 очень импульсные вспышки
>16:30 – эрупция E волокна(?)
Хорошо видна на STEREO-B: корональная волна**(?)**

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**

Tracking CME effects from "the Sun to the mud" Type II burst at 15:28
Peter Gallagher**, Pietro Zucca, Eoin Carley and Joe McCauley**
UKSP nugget, May 2011
http://www.uksolphys.org/?p=2633

14 March – 19:56– M4.2 вспышка; пересвет на STEREO-A, **A=31*2/315=0,2**

March 14: 19:50 – эрупция и M1.4/1N вспышка в AO 1169 (N18W48)
Хорошо видна на STEREO-A: корональная волна**(?)**

15 March – **00:26– M1.0** вспышка; пересвет на STEREO-A, **A=11,5*2/315=0.07**

Thermal Diagnostics with the Atmospheric Imaging Assembly onboard the Solar Dynamics Observatory: A Validated Method for Differential Emission Measure Inversions
Mark C. M. Cheung**, P. Boerner, C. J. Schrijver, P. Testa, F. Chen, H. Peter, A. Malanushenko**
ApJ 2015
http://arxiv.org/pdf/1504.03258v1.pdf

March 16: >18 UT – очень длительный C3.7 LDE в AO 1169 (N17W72);
крупный NW CME
Хорошо видна на STEREO-A: корональная волна**(?)**

Vertical oscillation of a coronal cavity triggered by an EUV wave
Q. M. Zhang**, H. S. Ji**
ApJ 2018
https://arxiv.org/pdf/1805.01088.pdf

Coronal Mass Ejections Associated with Slow Long Duration Flares
U. Bak-Steslicka**, S. Kolomanski, T. Mrozek**
E-print, Feb 2013, File; **Solar Phys.**

16-20 Mar
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

March 19: **A** huge filament **of magnetism and hot plasma blasted off the sun's southwestern limb on March 19th around 1200 UT. See STEREO-A.**

Difference of source regions between fast and slow coronal mass ejections
B. Filippov
PASAustralia 2019
https://arxiv.org/pdf/1904.04060.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

Solar origin of in-situ near-relativistic electron spikes observed with SEPT/STEREO
A. Klassen**, R. G?mez-Herrero, B. Heber, Y. Kartavykh, W. Dr?ge, K.-L. Klein**
E-print, April 2012**; A&A**

Plasma parameters in eruptive prominences from SDO/AIA observations
Kristopher McGlinchey **and Nicolas Labrosse**
UKSP Nuggets, 21, March 2012
http://www.uksolphys.org/?p=4247

20 March
Statistical Analysis of the Horizontal Divergent Flow in Emerging Solar Active Regions
Shin Toriumi**, Keiji Hayashi, Takaaki Yokoyama**
ApJ, 2014
http://arxiv.org/pdf/1408.2383v1.pdf

21 March – 02:16– W залимбовая вспышка; многоэлементный пересвет на STEREO-A,
A=8*2/313=0.051 Nitta event

March 21: ~02 – Behind the W-limb proton flare; крупный NW CME. **See STEREO-A.**
~18 - очень длительный C4.2 LDE от выходящей SE области;
См. трансэкваториальную эрупцию на **STEREO-B.**

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

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

Radial and Azimuthal Oscillations of Halo Coronal Mass Ejections in the Sun
Harim Lee**1, Y.-J. Moon1, and V. M. Nakariakov**
2015 **ApJ 803 L7**
http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/2041-8205_803_1_L7.pdf

Testing the Asymmetric Cone Model for Halo CMEs Using STEREO/SECCHI Coronagraphic Observations

Janusz Nicewicz**, , Grzegorz Michalek**
Advances in Space Research, 2014

> 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

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**
E-print, May 2013, File; **Solar Physics, November** 2013**, Volume 288, Issue 1, pp 241-254**

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**.**

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

THE LONGITUDINAL PROPERTIES OF A SOLAR ENERGETIC PARTICLE EVENT INVESTIGATED USING MODERN SOLAR IMAGING
A. P. Rouillard**1,2,3, N. R. Sheeley4, A. Tylka4, A. Vourlidas4, C. K. Ng3,5, C. Rakowski4, C. M. S. Cohen6, R. A. Mewaldt6, G. M. Mason7, D. Reames8, N. P. Savani9, O. C. StCyr5, and A. Szabo**
2012 **ApJ 752 44,** File

22 Mar

Three-dimensional reconstruction of type U radio bursts: a novel remote sensing approach for coronal loops
S. Mancuso**, D. Barghini, A. Bemporad, D. Telloni, D. Gardiol, F. Frassati, I. Bizzarri, C. Taricco**
A&A 2022
https://arxiv.org/pdf/2212.02147.pdf

Multipoint Analysis of the Interaction between a Shock and an ICME-like Structure around 2011 March 22
Mengjiao Xu**1,2, Chenglong Shen1,2, Can Wang1, Yutian Chi1,2, Zhihui Zhong1, and Yuming Wang1,2,3**
2022 **ApJL 930 L11**
https://iopscience.iop.org/article/10.3847/2041-8213/ac6879/pdf

23 March – 02:16– M1.4 пересвет **B=14*2/299=0.09 ←16s 8s→L/Rs=0,04**

March 23: 02:17 – SE-лимб импульсная M1.4 вспышка в AO 1176 (возврат 1165)

24 March – 12:16– M1.0 пересвет **A=14*2/299=0.09 ←16s 8s→ 12:11 L/Rs=12*2/299=0,08**

March 24: ~>02 – заметная SE эрупция в канале 304 A
~12 UT – очень импульсная SE C9 вспышка с корональной волной;
См. Events
~17 UT - – еще одна очень импульсная SE C9.1 вспышка с корональной волной(?);
До и после нее эрупция в канале 304 A; см. **STEREO-B.**

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

Is there a Dynamic Difference between Stealthy and Standard CMEs?
Beili Ying**, Alessandro Bemporad, Li Feng, Nariaki V. Nitta, Weiqun Gan**
ApJ 2022
https://arxiv.org/pdf/2211.12825.pdf

Connecting solar flare hard X-ray spectra to in situ electron spectra. A comparison of RHESSI and STEREO/SEPT observations
Nina Dresing**, A. Warmuth, F. Effenberger, K.-L. Klein, S. Musset, L. Glesener, M. Brüdern**
A&A 2021
https://arxiv.org/pdf/2108.09045.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

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

Deformation and deceleration of coronal wave
Z. K. Xue**1,3, Z. Q. Qu1, X. L. Yan1,2, L. Zhao4 and L. Ma**
A&A 556, A152 (2013**),** File

25 March – 23:28– M1.0вспышка; пересвет на STEREO-B, **B=12*2/299=0.08**

March 25:

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation
Nishtha Sachdeva
Ph.D. Thesis 2019

https://arxiv.org/pdf/1907.12673.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

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

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

Possible role of coronal streamer as magnetically-closed structure in shock-induced energetic electrons and metric type II radio bursts
Xiangliang Kong**, Yao Chen, Fan Guo, Shiwei Feng, Bing Wang, Guohui Du, Gang Li**
ApJ, 2014
http://arxiv.org/pdf/1410.7994v1.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

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

Quantitative Comparison of Methods for Predicting the Arrival of Coronal Mass Ejections at Earth based on multi-view imaging†
R. C. Colaninno***, A. Vourlidas, C. C. Wu**
Journal of Geophysical Research: Space Physics, Nov 2013; File
http://arxiv.org/pdf/1310.6680v2.pdf

Eruption of a plasma blob, associated M-class flare, and large-scale extreme-ultraviolet wave observed by SDO⋆
P. Kumar**1 and P. K. Manoharan**
A&A 553, A109 (2013**);** File

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.**

Observables Indicating Two Major Coronal Mass Ejections During the WHI
N. V. Nitta
Solar Physics, Volume 274, Numbers 1-2, 219-232, 2011

March 25-29
Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures
Nariaki V. Nitta**, Tamitha Mulligan**
Solar Physics **September** 2017**, 292:125** File

CME propagation: Where does the solar wind drag take over?
Nishtha Sachdeva**, Prasad Subramanian, Robin Colaninno, Angelos Vourlidas**
ApJ 2015
http://arxiv.org/pdf/1507.05199v1.pdf

March 26

The Submillimeter Active Region Excess Brightness Temperature during Solar Cycles 23 and 24
C. Guillermo Giménez de Castro **(1 and 2), André L. G. Pereira (1), J. Fernando Valle Silva (1), Caius L. Selhorst (3), Cristina H. Mandrini (2), Germán D. Cristiani (2), Jean-Pierre Raulin (1), Adriana Valio (1)**
ApJ 2020
https://arxiv.org/pdf/2009.03445.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

Testing the Asymmetric Cone Model for Halo CMEs Using STEREO/SECCHI Coronagraphic Observations
Janusz Nicewicz**, , Grzegorz Michalek**
Advances in Space Research, 2014

March 27:
The Automatic Identification and Tracking of Coronal Flux Ropes -- Part II: New Mathematical Morphology-based Flux Rope Extraction Method and Deflection Analysis
Andreas **Wagner**, Slava Bourgeois, Emilia K. J. Kilpua, Ranadeep Sarkar, Daniel J. Price, Anshu Kumari, Jens Pomoell, Stefaan Poedts, Teresa Barata, Robertus Erdélyi, Orlando Oliveira, Ricardo Gafeira
A&A **2023**
https://arxiv.org/pdf/2312.00673.pdf

On the Nature of the Three-part Structure of Solar Coronal Mass Ejections
Hongqiang Song**, Jie Zhang, Leping Li, Zihao Yang, Lidong Xia, Ruisheng Zheng, Yao Chen**
ApJ 2022
https://arxiv.org/pdf/2212.04013.pdf

Analysis of large deflections of prominence-CME events during the rising phase of solar cycle 24
M.V. Sieyra**, M. Cécere, H. Cremades, F.A. Iglesias, A. Sahade, M. Mierla, G. Stenborg, A. Costa, M. West, E. D'Huys**
2020
https://arxiv.org/pdf/2007.14317.pdf

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

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

Tracking the momentum flux of a CME and quantifying its influence on geomagnetically induced currents at Earth
N. P. Savani**, A. Vourlidas, A. Pulkkinen, T. Nieves-Chinchilla, B. Lavraud and M. J. Owens**
SPACE WEATHER, VOL. 11, 245–261, doi:10.1002/swe.20038, 2013
http://onlinelibrary.wiley.com/doi/10.1002/swe.20038/pdf

A BROKEN SOLAR TYPE II RADIO BURST INDUCED BY A CORONAL SHOCK PROPAGATING ACROSS THE STREAMER BOUNDARY
X. L. Kong**, Y. Chen, G. Li, S. W. Feng, H. Q. Song, F. Guo, and F. R. Jiao**
2012 **ApJ 750 158**

March 29

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

Analysis of large deflections of prominence-CME events during the rising phase of solar cycle 24
M.V. Sieyra**, M. Cécere, H. Cremades, F.A. Iglesias, A. Sahade, M. Mierla, G. Stenborg, A. Costa, M. West, E. D'Huys**
2020
https://arxiv.org/pdf/2007.14317.pdf

Quantitative Comparison of Methods for Predicting the Arrival of Coronal Mass Ejections at Earth based on multi-view imaging†
R. C. Colaninno***, A. Vourlidas, C. C. Wu**
Journal of Geophysical Research: Space Physics, Nov 2013; File
http://arxiv.org/pdf/1310.6680v2.pdf

29 March-1 Apr

Machine learning for predicting the Bz magnetic field component from upstream in situ observations of solar coronal mass ejections
M. A. Reiss,**C. Möstl**,**R. L. Bailey**,**H. T. Rüdisser**,**U. V. Amerstorfer**,**T. Amerstorfer**,**A. J. Weiss**,**J. Hinterreiter**,**A. Windisch**
Space Weather e2021SW002859 2021
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2021SW002859
https://doi.org/10.1029/2021SW002859

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

March 30
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Impulsive plasma outflows due to wave driven magnetic reconnection
Yamini K. Rao**, A.K. Srivastava, J.G. Doyle and Bhola N. Dwivedi**
MNRAS 2017
http://star.arm.ac.uk/preprints/2017/690.pdf

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

Structures of Interplanetary Magnetic Flux Ropes and Comparison with Their Solar Sources
Qiang Hu**, Jiong Qiu, B. Dasgupta, A. Khare, and G. M. Webb**
ApJ, 2014; File
https://dl.dropboxusercontent.com/u/96898685/ms_fr_v4.pdf

March 31
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

1 Apr – 03:53, C3.4 ; пересвет на **STEREO-A A=7*2/313=0.044**

1 Apr

Statistical study of hard X-ray emitting electrons associated with flare-related coronal jets
Sophie Musset**, Mariana Jeunon, Lindsay Glesener**
2020 ***ApJ*** 889 **183**
https://arxiv.org/pdf/1903.10414.pdf
sci-hub.si/10.3847/1538-4357/ab6222

Recovering the unsigned photospheric magnetic field from Ca II K observations

Theodosios Chatzistergos**, Ilaria Ermolli, Sami K. Solanki, Natalie A. Krivova, Fabrizio Giorgi, Kok Leng Yeo**
A&A 2019
https://arxiv.org/pdf/1905.03453.pdf

Statistical Analysis of the Horizontal Divergent Flow in Emerging Solar Active Regions
Shin Toriumi**, Keiji Hayashi, Takaaki Yokoyama**
ApJ, 2014
http://arxiv.org/pdf/1408.2383v1.pdf

2 Apr
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

April 3: **00->05 UT –** очень длительная, неоднократная эрупция вблизи SW лимба **с крупным CME, распространяющимся к югу от эклиптики.**

Properties of Decameter IIIb–III Pairs
V. N. Melnik**, A. I. Brazhenko, A. V. Frantsuzenko, V. V. Dorovskyy, H. O. Rucker**
Solar Physics February 2018**, 293:26**
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1234-9.pdf

April 4: **>03 - NW эрупция, LDE, CME, see STEREO-A**
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

5-6 Apr
STEREO Observations of Interplanetary Coronal Mass Ejections in 2007–2016
L. K. Jian**1,2, 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/

April 7: **>06 – эрупция SE волокна (?), значительный CME; See Events**

Study of High-temperature Emission in Solar Active Regions
M. Asgari-Targhi**1, A. A. van Ballegooijen1, and A. R. Davey2**
2019 **ApJ 881 107**
sci-hub.se/10.3847/1538-4357/ab2e01

Radio signatures of shock-accelerated electron beams in the solar corona
G. Mann**, V. N. Melnik, H. O. Rucker, A. A. Konovalenko and A. I. Brazhenko**
A&A 609, A41 (2018**)**
https://www.aanda.org/articles/aa/pdf/2018/01/aa30546-17.pdf

Formation of a White-Light Jet Within a Quadrupolar Magnetic Configuration
Boris Filippov **· Serge Koutchmy · Ehsan Tavabi**
Solar Phys (2013**) 286:143–156**

THE HEIGHT EVOLUTION OF THE "TRUE" CORONAL MASS EJECTION MASS DERIVED FROM STEREO COR1 AND COR2 OBSERVATIONS
B. M. Bein**1, M. Temmer1, A. Vourlidas2, A. M. Veronig1, and D. Utz**
2013 **ApJ 768 31;** File

7-10 Apr
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

April 9: **~13:50 – центральная/южная эрупция на 304 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

Magnetic Untwisting in Solar Jets that Go into the Outer Corona in Polar Coronal Holes
Ronald L. Moore**, Alphonse C. Sterling, David A. Falconer**
ApJ 2015
http://arxiv.org/ftp/arxiv/papers/1504/1504.03700.pdf

April 11: ~10 – эволюция огромного южного волокна на 304 A;
>20 – эрупция NW волокна на 304 A, хороший CME

Photospheric plasma and magnetic field dynamics during the formation of solar AR 11190
J. I. Campos Rozo**, D. Utz, S. Vargas Dominguez, A. Veronig, T. Van Doorsselaere**
A&A 2019
https://arxiv.org/pdf/1901.02437.pdf

Measurements of Non-Thermal Line Widths in Solar Active Regions
David H. Brooks**, Harry P. Warren**
ApJ 2015
http://arxiv.org/pdf/1511.02313v1.pdf

Coronal magnetic field and the plasma beta determined from radio and multiple satellite observations
Kazumasa Iwai**, Kiyoto Shibasaki, Satoshi Nozawa, Takuya Takahashi, Shinpei Sawada, Jun Kitagawa, Shun Miyawaki, Hirotaka Kashiwagi**
Earth planets and Space (EPS), CAWSES-II special issue, 2014
http://arxiv.org/pdf/1411.1913v1.pdf

Statistical Analysis of the Horizontal Divergent Flow in Emerging Solar Active Regions
Shin Toriumi**, Keiji Hayashi, Takaaki Yokoyama**
ApJ, 2014
http://arxiv.org/pdf/1408.2383v1.pdf

14 Apr – 03:53, C4.9 ; пересвет на **STEREO-B B=11*2/300=0.073**

April 14: ~23 – SE эрупция на 193 и 304

Observations of the Solar Corona from Space Review
Ester Antonucci**, Louise Harra, Roberto Susino & Daniele Telloni**
Space Science Reviews volume 216, Article number: 117 (2020**)**
https://link.springer.com/content/pdf/10.1007/s11214-020-00743-1.pdf
https://link.springer.com/article/10.1007/s11214-020-00743-1

Radio seismology of the outer solar corona
T. V. Zaqarashvili**1,4, V. N. Melnik2, A. I. Brazhenko3, M. Panchenko1, A. A. Konovalenko2, A. V. Franzuzenko3, V. V. Dorovskyy2 and H. O. Rucker**
A&A 555, A55 (2013**)**

15 April – 17:21– M1.3 вспышка; пересвет на STEREO-A, **A=19*2/314=0.12**

15 April

Widespread Occurrence of High-Velocity Upflows in Solar Active Regions
S. L. Yardley**, D. H. Brooks, D. Baker**
A&A 2021
https://arxiv.org/pdf/2106.01396.pdf

Study of High-temperature Emission in Solar Active Regions
M. Asgari-Targhi**1, A. A. van Ballegooijen1, and A. R. Davey2**
2019 **ApJ 881 107**
sci-hub.se/10.3847/1538-4357/ab2e01

The Magnetic Properties of Heating Events on High-Temperature Active Region Loops
Ignacio Ugarte-Urra**, Nicholas A. Crump, Harry P. Warren, Thomas Wiegelmann**
ApJ 2019
https://arxiv.org/pdf/1904.11976.pdf

Properties of the diffuse emission around warm loops in solar active regions
David H. Brooks
ApJ 2019
https://arxiv.org/pdf/1901.07741.pdf

On the Prediction of >100 MeV Solar Energetic Particle Events Using GOES Satellite Data
Soukaina Filali Boubrahimi**, Berkay Aydin, Petrus Martens, Rafal Angryk**
2017
https://arxiv.org/pdf/1712.03998.pdf

April 17

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

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

Testing the Asymmetric Cone Model for Halo CMEs Using STEREO/SECCHI Coronagraphic Observations
Janusz Nicewicz**, , Grzegorz Michalek**
Advances in Space Research, 2014

18 Apr
Statistical Analysis of the Horizontal Divergent Flow in Emerging Solar Active Regions
Shin Toriumi**, Keiji Hayashi, Takaaki Yokoyama**
ApJ, 2014
http://arxiv.org/pdf/1408.2383v1.pdf

19 Apr

Are Nonthermal Velocities in Active Region Coronal Loops Anisotropic?
Michael **Hahn**1, Mahboubeh Asgari-Targhi2, and Daniel Wolf Savin1
2023 ApJ 953 3
https://iopscience.iop.org/article/10.3847/1538-4357/acdfd2/pdf

Measurements of Non-Thermal Line Widths in Solar Active Regions
David H. **Brooks**, Harry P. Warren
ApJ **2015**
http://arxiv.org/pdf/1511.02313v1.pdf

The Evolution of the EM Distribution in the Core of an Active Region
Giulio Del Zanna**, Durgesh Tripathi, Helen Mason, Srividya Subramanian, Brendan O'Dwyer**
A&A, 2014
http://arxiv.org/pdf/1411.0128v1.pdf

April 20: ~20 – хорошая эрупция SE волокна; см. H-альфа фильм

MAGNETIC TOPOLOGY OF BUBBLES IN QUIESCENT PROMINENCES
J. Dudík**1,5,6,7, G. Aulanier2, B. Schmieder2, M. Zapiór3, and P. Heinzel**
2012 **ApJ 761 9**

21 Apr

Direct Measurement of Low-Energy Electron Foreshock Beams
Jan Soucek **, David Píša , Ondrej Santolík**
JGR Volume124, Issue4 April 2019 **Pages 2380-2392**
sci-hub.se/10.1029/2019JA026470

Properties of the diffuse emission around warm loops in solar active regions
David H. Brooks
ApJ 2019
https://arxiv.org/pdf/1901.07741.pdf

22April – 05:11– M1.8 вспышка; пересвет на STEREO-B, **B=18,5*2/300=0.12**
15:53 - M1.2 вспышка; пересвет на STEREO-B, **B=15*2/300=0.1 сомнительный**

April 22:

The Neupert Effect of Flare UltraViolet and Soft X-ray Emissions
Jiong Qiu

ApJ 2021
https://arxiv.org/pdf/2101.11069.pdf

Identifying Solar Flare Precursors Using Time Series ofSDO/HMI Images and SHARP Parameters
Yang Chen**1, Ward B. Manchester2, Alfred O. Hero3, Gabor Toth2, Benoit DuFumier3,Tian Zhou1, Xiantong Wang2, Haonan Zhu3,ZeyuSun3, and Tamas I. Gombosi2**
Space Weather Volume17, Issue10 October 2019 **Pages 1404-1426**
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2019SW002214

Multiwavelength diagnostics of the precursor and main phases of an M1.8 flare on 2011 April 22
Awasthi**, A. K.; Jain, R.; Gadhiya, P. D.; Aschwanden, M. J.; Uddin, W.; Srivastava, A. K.; Chandra, R.; Gopalswamy, N.; Nitta, N. V.; Yashiro, S.; Manoharan, P. K.; Choudhary, D. P.; Joshi, N. C.; Dwivedi, V. C.; Mahalakshmi, K.**
MNRAS, Volume 437, Issue 3, p.2249-2262, 2014
http://arxiv.org/pdf/1310.6029v1.pdf

April 23: ~16 – **NW эрупция в канале 304 A,** см. **http://www.spaceweather.com/ за 26 апреля**

April 24
Radial and Azimuthal Oscillations of Halo Coronal Mass Ejections in the Sun
Harim Lee**1, Y.-J. Moon1, and V. M. Nakariakov**
2015 **ApJ 803 L7**
http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/2041-8205_803_1_L7.pdf

Spectro-polarimetric Imaging Reveals Helical Magnetic Fields in Solar Prominence Feet
M. J. Martinez Gonzalez**, R. Manso Sainz, A. Asensio Ramos, C. Beck, J. de la Cruz Rodriguez, A. J. Diaz**
ApJ 2015
http://arxiv.org/pdf/1501.03295v1.pdf

Testing the Asymmetric Cone Model for Halo CMEs Using STEREO/SECCHI Coronagraphic Observations
Janusz Nicewicz**, , Grzegorz Michalek**
Advances in Space Research, 2014

April 27:

In situ measurements of the variable slow solar wind near sector boundaries
E. Sanchez-Diaz **(IRAP), A. Rouillard, B. Lavraud (IRAP), E. Kilpua (FMI), J. Davies**
ApJ 2019
https://arxiv.org/ftp/arxiv/papers/1911/1911.09683.pdf

РОЛЬ ВСПЛЫВАЮЩИХ МАГНИТНЫХ ТРУБОК ПРИ ФОРМИРОВАНИИ “ИМПУЛЬСНЫХ” КОРОНАЛЬНЫХ ВЫБРОСОВ МАССЫ
ЕСЕЛЕВИЧ **В. Г.1, ЕСЕЛЕВИЧ М. В**
АЖ, Том: 90, Номер: 11 Год: 2013 **Страницы: 936**

28-29 Apr
Properties of the Sheath Regions of Coronal Mass Ejections with or without Shocks from STEREO in situ Observations near 1 AU
T. M. Salman**, N. Lugaz, C. J. Farrugia, R. M. Winslow, L. K. Jian, A. B. Galvin**
ApJ 2020
https://arxiv.org/pdf/2011.06632.pdf

29 Apr

Association between tornadoes and hosting prominence instability

Irakli Mghebrishvili**, Teimuraz V. Zaqarashvili, Vasil Kukhianidze, David Kuridze, David Tsiklauri, Bidzina M. Shergelashvili, Stefaan Poedts**

ApJ 2018

https://arxiv.org/pdf/1807.01345.pdf

30 Apr

Three-dimensional Density Structure of a Solar Coronal Streamer Observed by SOHO/LASCO and STEREO/COR2 in Quadrature

Bieke Decraemer**, Andrei N. Zhukov, Tom Van Doorsselaere**

ApJ 2019

https://arxiv.org/pdf/1908.05034.pdf

May 2011

КРУПНОМАСШТАБНАЯ И МЕЛКОМАСШТАБНАЯ СТРУКТУРА СОЛНЕЧНОГО ВЕТРА, ФОРМИРУЮЩАЯСЯ ПРИ ВЗАИМОДЕЙСТВИИ ПОТОКОВ В ГЕЛИОСФЕРЕ

РОДЬКИН **Д.Г.**

, КАПОРЦЕВА К.Б.2, ЛУКАШЕНКО А.Т.3, ВЕСЕЛОВСКИЙ И.С.3,4, СЛЕМЗИН В.А.1, ШУГАЙ Ю.

Косм. Исслед. Том: 57Номер: 1 Год: 2019 **Страницы: 21-31**

1 May

Medium Range Forecasting of Solar-Wind: A Case Study of Building Regression Model with Space Weather Forecast Testbed (SWFT)

Chunming Wang**, I. Gary Rosen, Bruce T. Tsurutani, Olga P. Verkhoglyadova, Xing Meng, Anthony J. Mannucci**

Space Weather e2019SW002433 2020

https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2019SW002433

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/

2 May

RELATIONSHIP BETWEEN DISTRIBUTION OF MAGNETIC DECAY INDEX AND FILAMENT ERUPTIONS

H. Li**1,2, Y. Liu1, A. Elmhamdi3, and A.-S. Kordi3**

2016 **ApJ 830 132**

http://sci-hub.cc/10.3847/0004-637X/830/2/132

May 4**, ~17 UT – заметная NE эрупция**

5 May

Saddle-shaped solar flare arcades

Juraj Lörinčík**, Jaroslav Dudík, Guillaume Aulanier**

ApJ 2021

https://arxiv.org/pdf/2102.10858.pdf

A Catalog of Prominence Eruptions Detected Automatically in the SDO/AIA 304 Å Images
S. Yashiro **(1 and 2), N. Gopalswamy (2), S. Akiyama (1 and 2), P.A. Mäkelä**
2020
See https://cdaw.gsfc.nasa.gov/CME_list/autope/
https://arxiv.org/ftp/arxiv/papers/2005/2005.11363.pdf

May 5-6
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

7 May
Parameters of Type I Chains and Their Association with Flares in X-ray
Sodré**, Z. A. L.; Fernandes, F. C. R.**
Ground-based Solar Observations in the Space Instrumentation Era
ASP Conference Series, Vol. 504, p. 143, 2016
http://aspbooks.org/publications/504/143.pdf

8-11 May
Signatures of Untwisting Magnetic Field in a Small Emerging Bipole in the Solar Photosphere
C. R. Sangeetha**, Durgesh Tripathi, S. P. Rajaguru**
ApJ 2020
https://arxiv.org/pdf/2004.05615.pdf

May 9**, ~20:30 – значительная NE-лимб эрупция, CME;** см. **STEREO-B, корональная волна**

A Study of Dimmings, CMEs, and Flares during the STEREO-SOHO Quadrature
Larisza D. **Krista**1,2,3, Drew Manning4, and Matthew J. West5
2022 ApJ 930 165
https://iopscience.iop.org/article/10.3847/1538-4357/ac67d7/pdf

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

Source Region of the Decameter–Hectometric Type II Radio Burst: Shock–Streamer Interaction Region
Chenglong Shen**1 , Chijian Liao1, Yuming Wang1, Pinzhong Ye1 and Shui Wang**
Solar Physics, February 2013**, Volume 282, Issue 2, pp 543-552,** File

The standard flare model in three dimensions
I. Strong-to-weak shear transition in post-flare loops
G. Aulanier**, M. Janvier, and B. Schmieder**
E-print, 20 May, 2012, File**; A&A**

May 9-11
> 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

May 11, ~02:20 – значительная NW-эрупция (волокна), корональная волна**, CME;**
см. **STEREO-A; Видна на NOBE;** см. Events

См. детальные AIA фильмы
http://sdowww.lmsal.com/sdomedia/ssw/ssw_client/data/ssw_service_110510_204952_46340/www/

Grechnev, Stepanov_conf_13, Presentation
Grechnev, CESRA-13, Presentation
Grechnev, PASJ paper eruptive-view, 2013
Grechnev, NOBE-12, Presentation
Grechnev, FIAN-11, presentation

The Impulsive Acceleration of a Solar Filament Eruption Associated with a B-class Flare
Xinyue **Wang**1, Hongqiang Song1, Yao Chen1,2, Leping Li3, Zhenyong Hou4, and Ruisheng Zheng1
2023 ApJ 957 58
https://iopscience.iop.org/article/10.3847/1538-4357/acff5d/pdf

Observational Characteristics of solar EUV waves **Review**
Ramesh **Chandra**, Pooja Devi, P. F. Chen, Brigitte Schmieder, Reetika Joshi, Bhuwan Joshi, Arun Kumar Awasthi
3rd BINA workshop proceeding **2023**
https://arxiv.org/pdf/2310.12844.pdf

Multi-Scale Image Preprocessing and Feature Tracking for Remote CME Characterization
Oleg Stepanyuk**, Kamen Kozarev, Mohamed Nedal**
Journal of Space Weather and Space Climate 2022
https://arxiv.org/pdf/2205.15088.pdf

A Multi-Event Study of Early-Stage SEP Acceleration by CME-Driven Shocks -- Sun to 1 AU
Kamen Kozarev**, Mohamed Nedal, Rositsa Miteva, Momchil Dechev, Pietro Zucca**
Frontiers in Astronomy and Space Sciences 2022
https://arxiv.org/pdf/2202.06013.pdf

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

A Study of a long duration B9 flare-CME event and associated piston-driven shock
R. Chandra**, P. F. Chen, A. Fulara, A. K. Srivastava, W. Uddin**
Adv. Space Research 2017
https://arxiv.org/pdf/1710.08734.pdf

The Coronal Analysis of SHocks and Waves (CASHeW) Framework
K. Kozarev**, A. Davey, A. Kendrick, M. Hammer, C. Keith**
Journal of Space Weather and Space Climate (SWSC) 2017
https://arxiv.org/pdf/1710.05302.pdf

A Data-Driven Analytic Model for Proton Acceleration by Large-Scale Solar Coronal Shocks
Kamen A. Kozarev**, Nathan A. Schwadron**

ApJ 2016
http://arxiv.org/pdf/1608.00240v1.pdf

Can a Fast-mode EUV Wave Generate a Stationary Front?
P. F. Chen**, C. Fang, R. Chandra, A. K. Srivastava**
Solar Physics 2016
http://arxiv.org/pdf/1604.07982v1.pdf

Peculiar Stationary EUV Wave Fronts in the eruption on 2011 May 11
R. Chandra**, P. F. Chen, A. Fulara, A. K. Srivastava, W. Uddin**
ApJ 2016
http://arxiv.org/pdf/1602.08693v1.pdf

Responsibility of a Filament Eruption for the Initiation of a Flare, CME, and Blast Wave, and its Possible Transformation into a Bow Shock
V. V. Grechnev **(1), A. M. Uralov (1), I. V. Kuzmenko (2), A. A. Kochanov (1), I. M. Chertok (3), S. S. Kalashnikov**
Solar Phys., 290, 129 – 158, 2015
http://arxiv.org/pdf/1410.8696v1.pdf

Properties of a Coronal Shock Wave as A Driver of Early SEP Acceleration
Kamen A. Kozarev, John C. Raymond, Vasili V. Lobzin, Michael Hammer
ApJ, 2014
http://arxiv.org/pdf/1406.2363v1.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., 51 (**2013**) 1981–1989**

May 12, ~12 – заметная NE-эрупция**, CME;** см. **STEREO-B;**

Sympathetic Partial and Full Filament Eruptions Observed in One Solar Breakout Event
Yuandeng Shen**, Yu Liu, Jiangtao Su**
ApJ, 2012**, 750, 12**

May13
Analysis of large deflections of prominence-CME events during the rising phase of solar cycle 24
M.V. Sieyra**, M. Cécere, H. Cremades, F.A. Iglesias, A. Sahade, M. Mierla, G. Stenborg, A. Costa, M. West, E. D'Huys**
2020
https://arxiv.org/pdf/2007.14317.pdf

15 May – 23:33– C4.8 вспышка; пересвет на STEREO-A A=12*2/314=0,08

May 15, ~23:20 (и перед этим) – заметная NW-эрупция, корональная волна**, CME;**
см. **STEREO-A;**

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

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

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

Statistical Analysis of the Horizontal Divergent Flow in Emerging Solar Active Regions
Shin Toriumi**, Keiji Hayashi, Takaaki Yokoyama**
ApJ, 2014
http://arxiv.org/pdf/1408.2383v1.pdf

May 16
The Evolution of the EM Distribution in the Core of an Active Region
Giulio Del Zanna**, Durgesh Tripathi, Helen Mason, Srividya Subramanian, Brendan O'Dwyer**
A&A, 2014
http://arxiv.org/pdf/1411.0128v1.pdf

16-18 May
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

May 17, ~02:20 – эрупция NW волокна, хорошо видна на 304 A

May 18, ~18 – NW-лимб эрупция, CME; см. STEREO-A (корональная волна)**;**

May 19
In situ measurements of the variable slow solar wind near sector boundaries
E. Sanchez-Diaz **(IRAP), A. Rouillard, B. Lavraud (IRAP), E. Kilpua (FMI), J. Davies**
ApJ 2019
https://arxiv.org/ftp/arxiv/papers/1911/1911.09683.pdf

19-22 May
Characterizing ICME-related Forbush Decreases at Mercury using MESSENGER Observations: Identification of a One or Two-Step Structure
Emma E. Davies **(1), Réka M. Winslow (1), David J. Lawrence (2)**
ApJ 2022
https://arxiv.org/pdf/2212.02707.pdf

May 20

The Coronal Mass Ejection Visibility Function of Modern Coronagraphs
Angelos Vourlidas**, L. A. Balmaceda, H. Xie, O. C. St. Cyr**
ApJ 2020

https://arxiv.org/ftp/arxiv/papers/2008/2008.03348.pdf

The magnetic field configuration of a solar prominence inferred from spectropolarimetric observations in the He I 10830 A triplet
David Orozco Suárez**, Andrés Asensio Ramos, Javier Trujillo Bueno**
A&A, 2014
http://arxiv.org/pdf/1403.7976v1.pdf

May 21
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

May 25, ~ Disk eruptions at 193 A

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations
Richard A. **Harrison**, Jackie A. Davies, David Barnes, Christian Möstl
Space Weather **2023**
https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf

Observational Study of an Earth-affecting Problematic ICME from STEREO
Yutian Chi**1, Jie Zhang2,3, Chenglong Shen1,4, Phillip Hess5, Lijuan Liu6, Wageesh Mishra1, and Yuming Wang1,7**
2018 **ApJ 863 108**
http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/1538-4357/aacf44/meta

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

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

25-28 May

Observational Study of an Earth-affecting Problematic ICME from STEREO
Yutian Chi**1, Jie Zhang2,3, Chenglong Shen1,4, Phillip Hess5, Lijuan Liu6, Wageesh Mishra1, and Yuming Wang1,7**
2018 **ApJ 863 108**
http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/1538-4357/aacf44/meta

Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures
Nariaki V. Nitta**, Tamitha Mulligan**
Solar Physics **September** 2017**, 292:125** File

28 May – 21:46– M1.1 вспышка; пересвет на STEREO-B, **B=23*2/299=0.15**

Possible Cool Prominence Materials Detected within Interplanetary Small Magnetic Flux Ropes

J. M. Wang**1,2, H. Q. Feng1, H. B. Li1, A. K. Zhao1, Z. J. Tian1, G. Q. Zhao1, Y. Zhao1, and Q. Liu1**
2019 **ApJ 876 57**
sci-hub.se/10.3847/1538-4357/ab148b

29 May – 10:46– M1.1 вспышка; пересвет на STEREO-B, **B=12*2/299=0.0,8**

May 29, ~10:30, ~21 –strong SE eruptions, large CMEs**;** см. **STEREO-B**
Region 11226 produced a long duration M1.4/1F event peaking at 10:38 UTC. This event was associated with a large CME off the east limb. While both STEREO A and B observed this as a full halo CME, the CME apparently didn't even become a partial halo CME in LASCO images.

Weak Bidirectional Outflows and Flare Current Sheet in a Solar Coronal Jet Driven by the Eruption of a Minifilament
Jiayan **Yang**1, Junchao Hong1, Bo Yang1, Yi Bi1, and Zhe Xu1
2023 ApJ 942 86
https://iopscience.iop.org/article/10.3847/1538-4357/aca66f/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

May 30

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

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

Distinct propagating fast wave trains associated with flaring energy releases
Ding Yuan**1, Yuandeng Shen2, Yu Liu2, V.M. Nakariakov1, 3, Baolin Tan4, and Jing Huang4**
E-print, March 2013**, A&A**

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 STUDY OF THE QUASI-PERIODIC FAST-PROPAGATING MAGNETOSONIC WAVES AND THE ASSOCIATED FLARE ON 2011 MAY 30
Yuandeng Shen1,2 and Yu Liu
2012 **ApJ 753 53**
https://iopscience.iop.org/article/10.1088/0004-637X/753/1/53/pdf

May 31
The dynamical behaviour of a jet in an on-disk coronal hole observed with AIA/SDO

K. Chandrashekhar**, R. J. Morton, D. Banerjee, G. R. Gupta**
E-print, Oct 2013**; A&A**
http://arxiv.org/abs/1310.7853

June-Nov 2011
Visibility of coronal mass ejections in SOHO/LASCO coronagraphs
K.Bronarska**, G.MichalekaS.YashirobS.Akiyama**
Advances in Space Research Volume 60, Issue 9, 1 November 2017**, Pages 2108-2115**
http://sci-hub.cc/10.1016/j.asr.2017.07.033

1 June, ~17 **- Region 11226 (S20E20) was the source of a** C4.1 long duration **event peaking at 17:08 UTC. This event was associated with a northwards** fast moving wave and likely a CME**. A CME from the current position of 11226 could easily be Earth directed and cause major geomagnetic storming. See** Events

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

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 FROM SDO, HINODE, AND STEREO OF A TWISTING AND WRITHING START TO A SOLAR-FILAMENT-ERUPTION CASCADE
Alphonse C. Sterling**1,3, Ronald L. Moore1, and Hirohisa Hara**
2012 **ApJ 761 69**

2 June, ~06:30 **– Еще одна** заметная эрупция **из комплекса 226-227,** корональная волна**,** крупный CME на STEREO; , **See** Events Prolonged gamma

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

CMEs in the Heliosphere: III. A Statistical Analysis of the Kinematic Properties Derived from Stereoscopic Geometrical Modelling Techniques Applied to CMEs Detected in the Heliosphere from 2008 to 2014 by STEREO/HI-1
D. Barnes**, J. A. Davies, R. A. Harrison, J. P. Byrne, C. H. Perry, V. Bothmer, J. P. Eastwood, P. T. Gallagher, E. K. J. Kilpua, C. Möstl, L. Rodriguez, A. P. Rouillard, D. Odstrcil**
Solar Phys. 2020
https://arxiv.org/pdf/2006.14879.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

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

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

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

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

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

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

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**

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

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

Coexisting fast and slow propagating waves of the extreme-UV intensity in solar coronal plasma structures⋆
Yuzong Zhang**1, Jun Zhang1, Jingxiu Wang1 and Valery M. Nakariakov**
A&A 581, A78 (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

Radial and Azimuthal Oscillations of Halo Coronal Mass Ejections in the Sun

Harim Lee**1, Y.-J. Moon1, and V. M. Nakariakov**
2015 **ApJ 803 L7**
http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/2041-8205_803_1_L7.pdf

Testing the Asymmetric Cone Model for Halo CMEs Using STEREO/SECCHI Coronagraphic Observations
Janusz Nicewicz**, , Grzegorz Michalek**
Advances in Space Research, 2014

Quantitative Comparison of Methods for Predicting the Arrival of Coronal Mass Ejections at Earth based on multi-view imaging†
R. C. Colaninno***, A. Vourlidas, C. C. Wu**
Journal of Geophysical Research: Space Physics, Nov 2013; File
http://arxiv.org/pdf/1310.6680v2.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**

3 June
Unusual Solar Radio Burst Observed at Decameter Wavelengths
V. N. Melnik**, A. I. Brazhenko, A. A. Konovalenko, H. O. Rucker, A. V. Frantsuzenko, V. V. Dorovskyy, M. Panchenko, A. A. Stanislavskyy**
Solar Phys., 2013

4 June, STEREO-A, ~07 и, особенно, 21:55 – мощные, далеко залимбовые (для Земли) вспышки; от 2-ой из них видно длительное возрастание протонов (protons)

Searching for neutrinos from solar flares across solar cycles 23 and 24 with the Super-Kamiokande detector as a Review
K. Okamoto**, K. Abe, Y. Hayato, K. Hiraide, K. Hosokawa, K. Ieki, M. Ikeda, J. Kameda,++++++**
ApJ 2022
https://arxiv.org/pdf/2210.12948.pdf

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Почти одновременная SW небольшая эрупция в комплексе 226-227, крупный SW CME, связанный с за лимбовой S эрупцией; см. STEREO-A

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Juraj Lörinčík, Jaroslav Dudík, Guillaume Aulanier
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Yi Bi (毕以), Yunchun Jiang (姜云春), Haidong Li (李海东), Junchao Hong (洪俊超), and Ruisheng Zheng
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7 June – 07:16– M2.5 вспышка; пересвет на STEREO-B, **B=18*2/299=0.12**

! 7 June, 06:45 - Region 11226 produced a M2.5 proton flare at 06:41 UTC. Prolonged gamma
The event was associated with a large and fast CME
SDO/AIA - **Кроме** корональной волны**,** распросраняющееся потемнение из-за эруптировавшего вещества видно не только на 304 A, но и в умеренно высокотемпературных корональных каналах**.. See** Events
The CME associated with M2.5 event was spectacular in SDO images. Some of the dark ejecta at the outer edges of the CME failed to escape and fell back over a large area of the solar disk.
Здесь, кроме прочего, в явном виде в нескольких каналах (не только на 304 A) виден сильный разлет первоначально совсем небольшого волокна и затем мультифрагментарное высыпание из него вещества в весьма удаленные районы. Интересно посмотреть как это отразилось на радиопрофилях в дм- и см- диапазонах. Вместе с тем, внутри CME наблюдалось (в том числе на STEREO-A,B, http://stereo-ssc.nascom.nasa.gov/browse/2011/06/07/) очень ярко светящееся вещество эруптировавшей части волокна в виде двух столбов, соединенных менее яркой вершиной.

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The Hyper-inflation Stage in the Coronal Mass Ejection Formation: A Missing Link That Connects Flares, Coronal Mass Ejections, and Shocks in the Low Corona
Laura A. Balmaceda**1,2, Angelos Vourlidas3, Guillermo Stenborg3, and Ryun-Young Kwon4**
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АНАЛИЗ ЭРУПТИВНОГО СОБЫТИЯ ПОСЛЕ СОЛНЕЧНОЙ ВСПЫШКИ 7 ИЮНЯ 2011 ГОДА

КУПРЯКОВ **Ю. А.*1,2, ГОРШКОВ А. Б.2, КОТРЧ П.1, КАШАПОВА Л. К.3**
АЖ Том: 98Номер: 10 Год: 2021 **Страницы: 873-880**
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ВАРИАЦИИ МАГНИТНОГО ПОЛЯ, СОПРОВОЖДАЮЩИЕ ВОЗНИКНОВЕНИЕ КВМ, СВЯЗАННОГО С ЭРУПЦИЕЙ ВОЛОКНА
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Janusz Nicewicz**, , Grzegorz Michalek**
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Generation Mechanism of the Slowly Drifting Narrowband Structure in the Type IV Solar Radio Bursts Observed by Amateras
Y. Katoh**1, K. Iwai2, Y. Nishimura1, A. Kumamoto1, H. Misawa3, F. Tsuchiya3, and T. Ono**
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S. Dolei**1, A. Bemporad2 and D. Spadaro**
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Jack Carlyle**, David R. Williams, Lidia van Driel-Gesztelyi, Davina Innes, Andrew Hillier, Sarah Matthews**
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Hard X-ray and ultraviolet emission during the 2011 June 7 solar flare
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Victor Grechnev **and Hugh Hudson**

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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.**
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VARIATIONS OF THE MUON FLUX AT SEA LEVEL ASSOCIATED WITH INTERPLANETARY ICMEs AND COROTATING INTERACTION REGIONS
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Dave Williams, Deb Baker and Lidia van Driel-Gesztelyi
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Break up of returning plasma after the 7 June 2011 filament eruption by Rayleigh-Taylor instabilities⋆
D. E. Innes**1, R. H. Cameron1, L. Fletcher2, B. Inhester1 and S. K. Solanki1**
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X. Cheng**, J. Zhang, O. Olmedo, A. Vourlidas, M. D. Ding, and Y. Liu**
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Automatic detection of white-light flare kernels in SDO/HMI intensitygrams
L. Mravcova **(1), M. Svanda**
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Plasma parameters in eruptive prominences from SDO/AIA observations
Kristopher McGlinchey **and Nicolas Labrosse**
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Finding the critical decay index in solar prominence eruptions
N. Vasantharaju**, P. Vemareddy, B. Ravindra, V. H. Doddamani**
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13 June

Multiwavelength observations of a partial filament eruption on 13 June 2011
Yanjie Zhang**, Qingmin Zhang, Jun Dai, Dong Li, Haisheng Ji**
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https://arxiv.org/pdf/2210.05919.pdf

Internal structure of a coronal mass ejection revealed by Akatsuki radio occultation observations
H. Ando**, D. Shiota, T. Imamura, M. Tokumaru, A. Asai, H. Isobe, M. Päzold, B. Häusler, M. Nakamura**
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Janusz Nicewicz**, , Grzegorz Michalek**
Advances in Space Research, 2014

14 June – 21:51– M1.3 вспышка; пересвет на STEREO-B, **B=13*2/297=0.09**

14 June, >07 – крупная эрупция SE волокна; крупный CME;
событие хорошо видно на **STEREO-B**

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**
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Dynamics of solar Coronal Mass Ejections: forces that impact their propagation
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Magnetism and the Invisible Man: The mysteries of coronal cavities Review
Sarah Gibson
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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**
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14-21 June
Solar coronal magnetic field extrapolation from synchronic data with AI-generated farside
Hyunjin Jeong**, Yong-Jae Moon, Eunsu Park, Harim Lee**
ApJ 2020
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15 June
The visual complexity of coronal mass ejections follows the solar cycle
S. R. Jones **, C. J. Scott , L. A. Barnard , R. Highfield , C. J. Lintott , E. Baeten**
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http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

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**
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Apparent Solar Tornado - Like Prominences
Olga Panasenco**, Sara F. Martin, Marco Velli**
E-print, July 2013**, Solar Phys.**

16-17 June
Destabilization of a Solar Prominence/Filament Field System by a Series of Eight Homologous Eruptive Flares

Navdeep K. Panesar**, Alphonse C. Sterling, Davina E. Innes, Ronald L. Moore**
ApJ 2015
http://arxiv.org/pdf/1508.01952v1.pdf

17 June – 23:48– C3.9 вспышка; пересвет на STEREO-A, **A=14*2/313=0,089**

17 June
A 17 June 2011 Polar Jet and its Presence in the Background Solar Wind
H.-S. Yu**, B.V. Jackson, Y.-H. Yang, N.-H. Chen, A. Buffington, P.P. Hick**
JGR 2016

The analysis of polar jet responses using images from the LASCO C2 and STEREO COR 2 coronagraphs
H.-S. Yu**, B. V. Jackson, J. M. Clover, and A. Buffington**
AIP Conf. Proc. 1539, 90 (2013**); doi: 10.1063/1.4810997**
http://smei.ucsd.edu/new_smei/PDFs/publications/pdf_public/2013_AIPC_1539_90_Yu.pdf

18 June
Magnetic topological analysis of coronal bright points
K. Galsgaard**, M. S. Madjarska, F. Moreno-Insertis, Z. Huang, T. Wiegelmann**
A&A 2017
https://arxiv.org/pdf/1707.04174.pdf

19 June – 15:21– C4.7 вспышка; пересвет на STEREO-A, **A=14*2/313=0,089**

19 June, 16:30 – крупная SE эрупция, C1.5 LDE; крупный CME;
A partial halo CME was observed by LASCO beginning at 16:36 UTC following an event in region 11237.

Origins of Rolling, Twisting and Non-Radial Propagation of Eruptive Solar Events
Olga Panasenco**, Sara F. Martin, Marco Velli, Angelos Vourlidas**
E-print, Dec 2012**; Solar Phys., 2013, Volume 287, Issue 1-2, pp 391-413**

20 June
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

20-22 June
Implementing the MULTI-VP coronal model in EUHFORIA: test case results and comparisons with the WSA coronal model
Evangelia Samara**, Rui F. Pinto, Jasmina Magdalenic, Nicolas Wijsen, Veronika Jercic, Camilla Scolini, Immanuel C. Jebaraj, Luciano Rodriguez, Stefaan Poedts**
A&A 2021
https://arxiv.org/pdf/2102.06617.pdf

!21 June, >~02 – крупная центральная эрупция в салидной АО,
с крупным CME на **STEREO-A,B**; **See** Events
A halo CME was observed at LASCO after a C7 LDE in region 11236.
См. ICME модельный фильм на http://www.spaceweather.com/ за 23 июня.

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

Characterizing ICME-related Forbush Decreases at Mercury using MESSENGER Observations: Identification of a One or Two-Step Structure
Emma E. Davies **(1), Réka M. Winslow (1), David J. Lawrence (2)**
ApJ 2022
https://arxiv.org/pdf/2212.02707.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

Characteristics of stripes-pattern radio-emission sources

Alielden**, Khaled**
MNRAS Volume 514, Issue 2, pp.2135-2144 2022
https://doi.org/10.1093/mnras/stac1384
https://watermark.silverchair.com/stac1384.pdf
CESRA **#3386** 2022 **https://www.astro.gla.ac.uk/users/eduard/cesra/?p=3386**

Magnetic Field and Density Models in the Zebra Source Region
L. V. Yasnov **& M. Karlický**
Solar Physics volume 297, Article number: 133 (2022**)**
https://doi.org/10.1007/s11207-022-02067-5

Simulations of solar radio zebras
M. Karlický
A&A 661, A56 (2022**)**
https://doi.org/10.1051/0004-6361/202142497
https://www.aanda.org/articles/aa/pdf/2022/05/aa42497-21.pdf

Tracking the 3D evolution of a halo coronal mass ejection using the revised cone model
Q. M. Zhang
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https://arxiv.org/pdf/2202.10676.pdf

On the Magnetoacoustic Waves and Physical Conditions in Zebra Radio Sources
L. V. Yasnov
Solar Physics volume 296, Article number: 139 (2021**)**
https://link.springer.com/content/pdf/10.1007/s11207-021-01886-2.pdf
https://doi.org/10.1007/s11207-021-01886-2

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

Data-constrained Magnetohydrodynamic Simulation of a Long Duration Eruptive Flare

Yang Guo**, Ze Zhong, M. D. Ding, P. F. Chen, Chun Xia, Rony Keppens**
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https://arxiv.org/pdf/2106.15080.pdf

Recent Results on the Fine Structure in Cosmic Radio Emission Book
Zebra Pattern in Solar and Pulsar Radio Emission
G.P. Chernov**, V. Fomichev, S. Fainshtein**
LAP LAMBERT Academic Publishing 2021 File

Magnetic Field, Electron Density and Their Spatial Scales in Zebra Pattern Radio Sources
L. V. Yasnov **& M. Karlický**
Solar Physics volume 295, Article number: 96 (2020**)**
https://link.springer.com/content/pdf/10.1007/s11207-020-01652-w.pdf

The Magnetic Flux Rope Structure of a Triangulated Solar Filament
Yang Guo**1, Yu Xu1, M. D. Ding1, P. F. Chen1, Chun Xia2, and Rony Keppens**
2019 **ApJL 884 L1**
https://doi.org/10.3847/2041-8213/ab4514

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation
Nishtha Sachdeva
Ph.D. Thesis 2019
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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**
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https://arxiv.org/pdf/1807.05056.pdf

Detection of Propagating Fast Sausage Waves through Detailed Analysis of a Zebra-pattern Fine Structure in a Solar Radio Burst
K. Kaneda**1, H. Misawa1, K. Iwai2, S. Masuda2, F. Tsuchiya1, Y. Katoh3, and T. Obara**
2018 **ApJL 855 L29**
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Plasma diagnostics of coronal dimming events
Kamalam Vanninathan**, Astrid M. Veronig, Karin Dissauer, Manuela Temmer**
ApJ 2018
https://arxiv.org/pdf/1802.06152.pdf

Toward Understanding the 3D Structure and Evolution of Magnetic Flux Ropes in an Extremely Long Duration Eruptive Flare
Zhenjun Zhou **, Jie Zhang4, Yuming Wang1,3, Rui Liu1,5, and Georgios Chintzoglou**
2017 **ApJ 851 133**

Polarization Characteristics of Zebra Patterns in Type IV Solar Radio Bursts
K. Kaneda**1, H. Misawa1, K. Iwai2, F. Tsuchiya1, T. Obara1, Y. Katoh3, and S. Masuda4**
2017 **ApJ 842 45**
http://sci-hub.cc/10.3847/1538-4357/aa74c1

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
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Frequency Dependence of Polarization of Zebra Pattern in Type-IV Solar Radio Bursts
Kazutaka Kaneda**1, H. Misawa1, K. Iwai2, F. Tsuchiya1, and T. Obara**
2015 **ApJ 808 L45**
http://arxiv.org/ftp/arxiv/papers/1508/1508.02604.pdf

Radial and Azimuthal Oscillations of Halo Coronal Mass Ejections in the Sun
Harim Lee**1, Y.-J. Moon1, and V. M. Nakariakov**
2015 **ApJ 803 L7**
http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/2041-8205_803_1_L7.pdf

Testing the Asymmetric Cone Model for Halo CMEs Using STEREO/SECCHI Coronagraphic Observations
Janusz Nicewicz**, , Grzegorz Michalek**
Advances in Space Research, 2014

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**
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CONTRACTING AND ERUPTING COMPONENTS OF SIGMOIDAL ACTIVE REGIONS
Rui Liu**1,2, Chang Liu2, Tibor Török3, Yuming Wang1, and Haimin Wang**
2012 **ApJ 757 150**

What can we learn about solar coronal mass ejections, coronal dimmings, and Extreme-Ultraviolet jets through spectroscopic observations?
Hui Tian**, Scott W. McIntosh, Lidong Xia, Jiansen He, Xin Wang**
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21-22 June

CME–HSS Interaction and Characteristics Tracked from Sun to Earth
Stephan G. Heinemann**, Manuela Temmer, Charles J. Farrugia, Karin Dissauer, Christina Kay, Thomas Wiegelmann, Mateja Dumbović, Astrid M. Veronig, Tatiana Podladchikova, Stefan J. Hofmeister, Noé Lugaz, Fernando Carcaboso**
Solar Physics **September** 2019**, 294:121**
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22-23 June

On the Physical Nature of the so-Called Prominence Tornadoes **Review**
Stanislav **Gunár**, Nicolas Labrosse, Manuel Luna, Brigitte Schmieder, Petr Heinzel, Therese A. Kucera, Peter J. Levens, Arturo López Ariste, Duncan H. Mackay & Maciej Zapiór
Space Science Reviews volume 219, Article number: 33 (**2023**)
https://link.springer.com/content/pdf/10.1007/s11214-023-00976-w.pdf

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Yang Su1, Tongjiang Wang2,3, Astrid Veronig1, Manuela Temmer1, and Weiqun Gan
2012 ApJ 756 L41

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L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations
Richard A. **Harrison**, Jackie A. Davies, David Barnes, Christian Möstl
Space Weather **2023**
https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.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

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Atmospheric Response to of an Active Region to new Small Flux Emergence
D.L. Shelton**, L.K. Harra, L.M. Green**
Solar Phys. 2015
http://arxiv.org/pdf/1412.5623v1.pdf

24 June
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

25 June

Coronal Electron Density Fluctuations Inferred from Akatsuki Spacecraft Radio Observations
D. Wexler**, T. Imamura, A. Efimov, P. Song, L. Lukanina, H. Ando, E. Jensen, J. Vierinen & A. Coster**
Solar Physics volume 295, Article number: 111 (2020**)**
https://link.springer.com/content/pdf/10.1007/s11207-020-01677-1.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

29 June
Initiation of CMEs associated with filament eruption, and the nature of CME related shocks
V.G. Fainshtein**, , Ya.I. Egorov**
Advances in Space Research, Volume 55, Issue 3, 1 February 2015**, Pages 798–807**
http://www.sciencedirect.com/science/article/pii/S027311771400310X

29 June-1 July
Long-lived energetic particle source regions on the Sun
R. Bucik**, D. E. Innes, N.-H. Chen, G. M. Mason, R. Gomez-Herrero, M. E. Wiedenbeck**
Journal of Physics: Conference Series 2015
http://arxiv.org/pdf/1507.02840v1.pdf

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Long-lived energetic particle source regions on the Sun
R. Bucik**, D. E. Innes, N.-H. Chen, G. M. Mason, R. Gomez-Herrero, M. E. Wiedenbeck**
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Multi-Spacecraft Observations of Recurrent 3He-Rich Solar Energetic Particles
R. Bucik**, D. E. Innes, U. Mall, A. Korth, G. M. Mason, R. Gomez-Herrero**
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http://arxiv.org/pdf/1403.4856v1.pdf

2 July
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

3 July, 00:20 – **эрупция в NW квадранте,** хорошая корональная волна
A small, possibly Earth directed CME was observed in STEREO imagery after a B9 event in region 11244 early in the day.

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

Why "solar tsunamis" rarely leave their imprints in the chromosphere
Ruisheng **Zheng**, Yihan Liu, Wenlong Liu, Bing Wang, Zhenyong Hou, Shiwei Feng, Xiangliang Kong, Zhenghua Huang, Hongqiang Song, Hui Tian, Pengfei Chen, Robertus Erdélyi, Yao Chen
ApJ **2023**
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L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations
Richard A. **Harrison**, Jackie A. Davies, David Barnes, Christian Möstl
Space Weather **2023**
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CMEs in the Heliosphere: I. A Statistical Analysis of the Observational Properties of CMEs Detected in the Heliosphere from 2007 to 2017 by STEREO/HI-1
R. A. Harrison**, J. A. Davies, D. Barnes, J. P. Byrne, C. H. Perry, V. Bothmer, J. P. Eastwood, P. T. Gallagher, E. K. J. Kilpua, C. Möstl, L. Rodriguez, A. P. Rouillard, D. Odstrcil**
Solar Phys. 2018
https://arxiv.org/ftp/arxiv/papers/1804/1804.02320.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
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5 July

Association between tornadoes and hosting prominence instability
Irakli Mghebrishvili**, Teimuraz V. Zaqarashvili, Vasil Kukhianidze, David Kuridze, David Tsiklauri, Bidzina M. Shergelashvili, Stefaan Poedts**
ApJ 2018
https://arxiv.org/pdf/1807.01345.pdf

Critical magnetic field strengths for solar coronal plumes in quiet regions and coronal holes?
Ellis A. Avallone**, Sanjiv K. Tiwari, Navdeep K. Tiwari, Ronald L. Moore, Amy Winebarger**
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https://arxiv.org/pdf/1805.11188.pdf

A tiny event producing an interplanetary type III burst
C. E. Alissandrakis**, A. Nindos, S. Patsourakos, A. Kontogeorgos, P. Tsitsipis**
A&A 2015

http://arxiv.org/pdf/1507.08423v1.pdf

6 Jul

Observational and numerical characterization of a recurrent arc-shaped front propagating along a coronal fan

M.V. Sieyra**, S. Krishna Prasad, G. Stenborg, E. Khomenko, T. Van Doorsselaere, A. Costa, A. Esquivel, J.M. Riedl**

A&A 667, A21 2022

https://arxiv.org/pdf/2208.10857.pdf

https://www.aanda.org/articles/aa/pdf/2022/11/aa44454-22.pdf

6-8 July

Long-lived energetic particle source regions on the Sun

R. Bucik**, D. E. Innes, N.-H. Chen, G. M. Mason, R. Gomez-Herrero, M. E. Wiedenbeck**

Journal of Physics: Conference Series 2015

http://arxiv.org/pdf/1507.02840v1.pdf

Multi-Spacecraft Observations of Recurrent 3He-Rich Solar Energetic Particles

R. Bucik**, D. E. Innes, U. Mall, A. Korth, G. M. Mason, R. Gomez-Herrero**

2014

http://arxiv.org/pdf/1403.4856v1.pdf

7July

Dynamics of a prominence-horn structure during its evaporation in the solar corona

Bing Wang**, Yao Chen, Jie Fu, Bo Li, Xing Li, Wei Liu**

ApJL 2016

http://arxiv.org/pdf/1608.04095v1.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

8 July – 09:53– C3.0 вспышка; пересвет на STEREO-B, **B=14*2/293=0,096**
12:03– C2.8 вспышка; пересвет на STEREO-B, **B=10*2/293=0,068**
15:16– C2.3 вспышка; пересвет на STEREO-B, **B=6*2/293=0,041**

! 8-9 July, 23:30 - **A long duration B4 event peaking near 01:00 UTC was associated with a filament eruption to the east of region 11247.** Halo CME. Большое распространяющееся потемнение (волокно) на 304 A. See Events

Н-альфа неполные данные см. на сайтах

http://www.hida.kyoto-u.ac.jp/SMART/daily/11Jul/daily/images_20110709.html

http://www.kwasan.kyoto-u.ac.jp/~smart/pub/2011/07/09/T1/jpeg/js_movie_p00.html

Characteristics of Suprathermal Electrons in Small-Scale Magnetic Flux Ropes and Their Implications on the Magnetic Connection to the Sun

Kyung-Eun Choi**, Dae-Young Lee, Hee-Eun Wang, Seunguk Lee, Kyung-Chan Kim & Kyung Sun Park**

Solar Physics volume 296, Article number: 148 (2021**)**

https://link.springer.com/content/pdf/10.1007/s11207-021-01888-0.pdf

https://doi.org/10.1007/s11207-021-01888-0

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

Dynamics of a prominence-horn structure during its evaporation in the solar corona
Bing Wang**, Yao Chen, Jie Fu, Bo Li, Xing Li, Wei Liu**
ApJL 2016
http://arxiv.org/pdf/1608.04095v1.pdf

Long-lived energetic particle source regions on the Sun
R. Bucik**, D. E. Innes, N.-H. Chen, G. M. Mason, R. Gomez-Herrero, M. E. Wiedenbeck**
Journal of Physics: Conference Series 2015
http://arxiv.org/pdf/1507.02840v1.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

8-12 July
The Merging of Two Stream Interaction Regions within 1 au: The Possible Role of Magnetic Reconnection
Zehao Wang**1,2, Jianpeng Guo3,4,5, Xueshang Feng1, Chaoxu Liu1, Hui Huang3, Haibo Lin3, Chenming Tan5, Yihua Yan5, and Weixing Wan**
2018 **ApJL 869 L6**
sci-hub.tw/10.3847/2041-8213/aaf398

9 July

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

Multi-Spacecraft Observations of Recurrent 3He-Rich Solar Energetic Particles
R. Bucik**, D. E. Innes, U. Mall, A. Korth, G. M. Mason, R. Gomez-Herrero**
2014
http://arxiv.org/pdf/1403.4856v1.pdf

11 July, 10:20 - **A small CME was observed after a C2.6 flare in region 11249. Type** II **burst. Заметная центральная/южная эрупция. Корональная волна?**
Hard X-rays and Sympathy

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations
Richard A. **Harrison**, Jackie A. Davies, David Barnes, Christian Möstl
Space Weather **2023**
https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf

Образование и распространение плазменных потоков корональных выбросов массы в солнечной короне и гелиосфере Review

В. А. Слемзин**1, Ф. Ф. Горяев1, Д. Г. Родькин1, Ю. С. Шугай2, С. В. Кузин1**
201**8** File

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 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

Hugh Hudson
RHESSI Science Nugget, 13 July 2011
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Hard_X-rays_and_Sympathy
A hard X-ray spike elicits a sympathetic response.

13 July
THE SOURCE OF 3 MINUTE MAGNETOACOUSTIC OSCILLATIONS IN CORONAL FANS
D. B. Jess**1, I. De Moortel2, M. Mathioudakis1, D. J. Christian3, K. P. Reardon1,4, P. H. Keys1, and F. P. Keenan**
2012 **ApJ 757 160**

13-15 July
Long-lived energetic particle source regions on the Sun
R. Bucik**, D. E. Innes, N.-H. Chen, G. M. Mason, R. Gomez-Herrero, M. E. Wiedenbeck**
Journal of Physics: Conference Series 2015
http://arxiv.org/pdf/1507.02840v1.pdf

Heating Mechanisms for Intermittent Loops in Active Region Cores from AIA/SDO EUV Observations
A.C. Cadavid**, J.K. Lawrence, D.J. Christian, D.B. Jess, G. Nigro**
2014
http://arxiv.org/pdf/1404.7824v1.pdf

13-26 July
Direct Observation of Coronal Magnetic Fields by Vector Tomography of the Coronal Emission Line Polarizations
M. Kramar**, H. Lin, S. Tomczyk**
2015
http://arxiv.org/pdf/1502.07200v1.pdf

14 July
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

14-15 July
On-disk solar coronal condensations facilitated by magnetic reconnection between open and closed magnetic structures
Leping Li**, Hardi Peter, Lakshmi Pradeep Chitta, Hongqiang Song**
ApJ 2021
https://arxiv.org/pdf/2102.04605.pdf

14-18 July

The Merging of Two Stream Interaction Regions within 1 au: The Possible Role of Magnetic Reconnection
Zehao Wang**1,2, Jianpeng Guo3,4,5, Xueshang Feng1, Chaoxu Liu1, Hui Huang3, Haibo Lin3, Chenming Tan5, Yihua Yan5, and Weixing Wan**
2018 **ApJL 869 L6**
sci-hub.tw/10.3847/2041-8213/aaf398

15 July
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

Long-lived energetic particle source regions on the Sun
R. Bucik**, D. E. Innes, N.-H. Chen, G. M. Mason, R. Gomez-Herrero, M. E. Wiedenbeck**
Journal of Physics: Conference Series 2015
http://arxiv.org/pdf/1507.02840v1.pdf

16 July
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

Multi-Spacecraft Observations of Recurrent 3He-Rich Solar Energetic Particles
R. Bucik**, D. E. Innes, U. Mall, A. Korth, G. M. Mason, R. Gomez-Herrero**
2014
http://arxiv.org/pdf/1403.4856v1.pdf

22 July

High-resolution He I 10830 Å narrowband imaging for precursors of chromospheric jets and their quasi-periodic properties
Ya **Wang**, Qingmin Zhang, Zhenxiang Hong, Jinhua Shen, Haisheng Ji, Wenda Cao
A&A **2023**
https://arxiv.org/pdf/2303.07049.pdf

Quasi-periodic microjets driven by granular advection as observed with high-resolution imaging at He I 10830 Å
Zhenxiang **Hong**, Ya Wang, Haisheng Ji
ApJ 2022
https://arxiv.org/pdf/2201.12837.pdf

Blobs in recurring EUV jets
Q. M. Zhang **and H. S. Ji**
E-print, May 2014**; A&A**
http://arxiv.org/pdf/1405.5132v1.pdf

ON A CORONAL BLOWOUT JET: THE FIRST OBSERVATION OF A SIMULTANEOUSLY PRODUCED BUBBLE-LIKE CME AND A JET-LIKE CME IN A SOLAR EVENT
Yuandeng Shen**1,2,3, Yu Liu1,3, Jiangtao Su3,4 and Yuanyong Deng3**
2012 **ApJ 745, 164**

25 July
Testing the Asymmetric Cone Model for Halo CMEs Using STEREO/SECCHI Coronagraphic Observations
Janusz Nicewicz**, , Grzegorz Michalek**
Advances in Space Research, 2014

25-29 July
Solar Flare Intensity Prediction with Machine Learning Models
Zhenbang Jiao**, Hu Su, Xiantong Wang, Ward Manchester, Tamas Gombosi, Alfred Hero, Yang Chen**
Space Weather 2019
https://arxiv.org/pdf/1912.06120.pdf

26 July – 22:56– C3.8 вспышка; пересвет на STEREO-B, **B=10,5*2/290=0.072**

26 July

Properties of Flare-Imminent versus Flare-Quiet Active Regions from the Chromosphere through the Corona II: NonParametric Discriminant Analysis Results from the NWRA Classification Infrastructure (NCI)
KD Leka**, Karin Dissauer, Graham Barnes, Eric L. Wagner**
ApJ 2022
https://arxiv.org/pdf/2212.11255.pdf

On the Shape of SEP Electron Spectra: The Role of Interplanetary Transport
R. D. Strauss**1, N. Dresing2, A. Kollhoff2, and M. Brüdern2**
2020 **ApJ 897 24**
sci-hub.tw/10.3847/1538-4357/ab91b0

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

27 July – 16:16– M1.1 пересвет **B=20*2/290=0.14 ←16s 8s→L/Rs= 0.069**

27 July **-** A filament eruption near 06h **UTC to the west and north of region 11260 was associated with a CME off of the northeast limb.**
A filament eruption **in the northern hemisphere near the central meridian starting near** 16:50 **UTC was not associated with any obvious CME.**

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**
E-print, May 2013, File; **Solar Physics, Solar Physics, November** 2013**, Volume 288, Issue 1, pp 241-254**

28, 29 July
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

29 Jul-4 Aug

Deep-learning Reconstruction of Sunspot Vector Magnetic Fields for Forecasting Solar Storms
Dattaraj B. Dhuri**1,2, Shamik Bhattacharjee1, Shravan M. Hanasoge1,2, and Sashi Kiran Mahapatra1**
2022 **ApJ 939 64**
https://iopscience.iop.org/article/10.3847/1538-4357/ac9413/pdf

30 July – 02:11: M9.3 вспышка, пересвет **на STEREO-B, B=86,5*2/290=0,6**

30 July **- 02:09: a major, impulsive M9.3. No CME was observed after the event.**

Temporal Defocusing as a Depth Diagnostic of Submerged Sources of Transient Acoustic Emission from Solar Flares
Savannah **Perez-Piel**, Juan Camilo Buitrago-Casas, Juan Carlos Martínez Oliveros & Charles Lindsey
Solar Physics volume 298, Article number: 77 (**2023**)
https://link.springer.com/content/pdf/10.1007/s11207-023-02163-0.pdf

Analysis and Modeling of High-frequency Emission and Deep Seismic Sources of Sunquakes
John T. Stefan**1 and Alexander G. Kosovichev1,2**
2022 **ApJL 937 L26**
https://arxiv.org/pdf/2209.11286.pdf
https://iopscience.iop.org/article/10.3847/2041-8213/ac8f92/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

Submerged Sources of Transient Acoustic Emission from Solar Flares
Charles Lindsey**1, J. C. Buitrago-Casas2,3, Juan Carlos Martínez Oliveros3, Douglas Braun1, Angel D. Martínez4, Valeria Quintero Ortega4, Benjamín Calvo-Mozo4, and Alina-Catalina Donea5**
2020 **ApJL 901 L9**
https://doi.org/10.3847/2041-8213/abad2a
https://iopscience.iop.org/article/10.3847/2041-8213/abad2a/pdf

Ultra-impulsive Solar Flare Seismology
Angel D. Martínez**1, Valeria Quintero Ortega1, J. C. Buitrago-Casas2,3, Juan Carlos Martínez Oliveros3, Benjamín Calvo-Mozo1, and Charles Lindsey4**
2020 **ApJL 895 L19**
https://doi.org/10.3847/2041-8213/ab9173

Subsecond Spikes in Fermi GBM X-ray Flux as a Probe for Solar Flare Particle Acceleration
Trevor Knuth**, Lindsay Glesener**
ApJ 2020
https://arxiv.org/pdf/2003.05007.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

The Multi-Instrument (EVE-RHESSI) DEM for Solar Flares, and Implications for Non-Thermal Emission
James M. McTiernan**, Amir Caspi, Harry P. Warren**

ApJ 2018
https://arxiv.org/pdf/1805.12285.pdf

A Statistical Study of Photospheric Magnetic Field Changes During 75 Solar Flares
J. S. Castellanos Durán**1,2, L. Kleint3,4, and B. Calvo-Mozo1**
2018 **ApJ 852 25**
http://iopscience.iop.org.sci-hub.tw/0004-637X/852/1/25/

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

EUV and Magnetic Activities Associated with Type-I Solar Radio Bursts
Chuanyang Li**, Yao Chen, Bing Wang, Guiping Ruan, Shiwei Feng, Guohui Du, Xiangliang Kong**
Solar Phys. 2017
https://arxiv.org/pdf/1705.01666.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

Observations and modelling of Helium lines in solar flares
Paulo J. A. Simões**, Lyndsay Fletcher, Nicolas Labrosse, Graham S. Kerr**
Proceedings of the Coimbra Solar Physics Meeting 2015: Ground-based Solar Observations in the Space Instrumentation Era; Astronomical Society of the Pacific Conference Series 2015
http://arxiv.org/pdf/1512.03477v1.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

Dynamics of Electric Currents, Magnetic Field Topology and Helioseismic Response of a Solar Flare
I. N. Sharykin**, A. G. Kosovichev**
2015
http://arxiv.org/pdf/1502.05190v1.pdf

Analysis of Chains of Metric Solar Type I Bursts
Z. A. L. Sodré**, R. D. Cunha-Silva, F. C. R. Fernandes**
Solar Phys., 2014

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

30 July-4 Aug

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

August 2011
Relationship of EUV Irradiance Coronal Dimming Slope and Depth to Coronal Mass Ejection Speed and Mass
James Paul Mason, Thomas N. Woods, David F. Webb, Barbara J. Thompson, Robin C. Colaninno,Angelos Vourlidas
ApJ 2016
http://arxiv.org/pdf/1607.05284v1.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

1 Aug
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

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

Parameters of Type I Chains and Their Association with Flares in X-ray
Sodré**, Z. A. L.; Fernandes, F. C. R.**
Ground-based Solar Observations in the Space Instrumentation Era
ASP Conference Series, Vol. 504, p. 143, 2016
http://aspbooks.org/publications/504/143.pdf

Oscillation of solar radio emission at coronal acoustic cut-off frequency
O. S. Pylaev, **T.V. Zaqarashvili, A. I. Brazhenko, V. N. Melnik, A. Hanslmeier, M. Panchenko**
A&A 2017
https://arxiv.org/pdf/1703.09929.pdf

1-6 Aug
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

1-12 Aug
Образование и распространение плазменных потоков корональных выбросов массы в солнечной короне и гелиосфере Review
В. А. Слемзин**1, Ф. Ф. Горяев1, Д. Г. Родькин1, Ю. С. Шугай2, С. В. Кузин1**
2018 File

2 Aug – 06:16: M1.4 пересвет **A=10*2/312=0,06 ←16s 8s→10/312=0.032**
Сомнительный

2 Aug - **Region 11261 produced a** long duration M1.4 event **peaking at** 06:19 **UTC. This event was associated with an apparently** Earth directed CME**.**
Центральная эрупция, корональная волна

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

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

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

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

Образование и распространение плазменных потоков корональных выбросов массы в солнечной короне и гелиосфере Review
В. А. Слемзин**1, Ф. Ф. Горяев1, Д. Г. Родькин1, Ю. С. Шугай2, С. В. Кузин1**
201**8** File

Tracking Filament Evolution in the Low Solar Corona Using Remote Sensing and In Situ Observations
Manan Kocher**, Enrico Landi, and Susan. T. Lepri**
2018 **ApJ 860 51**

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

Origin and Ion Charge State Evolution of Solar Wind Transients during 4 – 7 August 2011
D. Rodkin**, F. Goryaev, P. Pagano, G. Gibb, V. Slemzin, Y. Shugay, I. Veselovsky, D. H. Mackay**
Solar Physics July 2017**, 292:90**

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

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

Temporal and spatial relationship of flare signatures and the force-free coronal magnetic field
Julia K. Thalmann**, Astrid M. Veronig, Yang Su**
ApJ 2016
http://arxiv.org/pdf/1605.03703v1.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

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

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.**

Solar Radio Bursts and Space Weather
N. Gopalswamy
ISWI Workshop, Oct 2012**, Presentation,** File

2-4 Aug
Dispersion of small magnetic elements inside active regions on the Sun
Valentina I. Abramenko
MNRAS 2018
https://arxiv.org/pdf/1812.05469.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

Origin and Ion Charge State Evolution of Solar Wind Transients during 4 – 7 August 2011
D. Rodkin**, F. Goryaev, P. Pagano, G. Gibb, V. Slemzin, Y. Shugay, I. Veselovsky, D. H. Mackay**
Solar Physics July 2017**, 292:90**

Relationship of EUV Irradiance Coronal Dimming Slope and Depth to Coronal Mass Ejection Speed and Mass
James Paul Mason, Thomas N. Woods, David F. Webb, Barbara J. Thompson, Robin C. Colaninno,Angelos Vourlidas
ApJ 2016
http://arxiv.org/pdf/1607.05284v1.pdf

Ensemble Modeling of Successive Halo CMEs: A Case Study
C. O. Lee**, C. N. Arge, D. Odstrcil, G. Millward, V. Pizzo, N. Lugaz**
Solar Phys., 2015

3 Aug – 03:41: M1.1 вспышка, пересвет **на STEREO-A, A=19*2/312=0,12**
14:16: M6.0 пересвет **A=39.5*2/312=0,25 ←16s 8s→13:46 A=25*2/312=0,16**

3 Aug **– Region 11261 produced a** major M6.0 long duration event **peaking at** 13:48 **UTC. What appears to be another** earthbound halo CME **was visible as early as 13:55 UTC in STEREO images.**
См. http://iswa.gsfc.nasa.gov/downloads/20110802_101800_anim.tim-den.gif

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M. Ackermann**2, M. Ajello3, A. Albert4, A. Allafort5,1, L. Baldini6, G. Barbiellini7,8, D. Bastieri et al.**
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Amy M. Keesee**1*, Victor Pinto1, Michael Coughlan1, Connor Lennox2, Md Shaad Mahmud2 and Hyunju K. Connor3**
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Сильно наклонный пересвет

6 Aug Буря Dst~115 nT

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6-18 Aug

Quantifying Properties of Photospheric Magnetic Cancellations in the Quiet Sun Internetwork
Vincent E. Ledvina**1,2, Maria D. Kazachenko2,3, Serena Criscuoli2, Dennis Tilipman2,3, Ilaria Ermolli4, Mariachiara Falco5, Salvatore Guglielmino5, Shahin Jafarzadeh6,7, Luc Rouppe van der Voort7,8, and Francesca Zuccarello9**
2022 **ApJ 934 38**
https://iopscience.iop.org/article/10.3847/1538-4357/ac7785/pdf

7 Aug

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

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

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

8 Aug – 18:16: M3.5 пересвет **A=37.5*2/312=0, 24 ←16s 8s→**18:26 **A=23*2/312=0.147**
22:**16:** C5.3 пересвет **A=35*2/312=0,22 ←16s 8s→ A=35/312=0.112**

8 Aug – The M3.5 flare at 18:10 in region 11263 produced a fast partial halo CME.

A Quantity Characterising Variation of Observed Magnetic Twist of Solar Active Regions
Yu Gao
Research in Astron. Astrophys 2017
https://arxiv.org/pdf/1712.07833.pdf

9 Aug – 04:16: M2.5 пересвет **A=32*2/311=0,21 ←16s 8s→ A=32/311=0.103**
08:06: X6.9 вспышка, большой пересвет **на STEREO-A, A=248.5*2/312=1.59**

9 Aug – 08:25: Region 11263 produced the largest flare of cycle 24, a major X6.9 event.

Короткая вспышка. Мощная корональная волна. Слабый гало CME. Небольшие протоны. Sustained Gamma
Наши радиоспектры со II типом.

Analysis of SEP events and their possible precursors based on the GSEP Catalog
Sumanth A. **Rotti**, Petrus C. Martens
ApJ **2023**
https://arxiv.org/pdf/2306.11318.pdf

Why "solar tsunamis" rarely leave their imprints in the chromosphere
Ruisheng **Zheng**, Yihan Liu, Wenlong Liu, Bing Wang, Zhenyong Hou, Shiwei Feng, Xiangliang Kong, Zhenghua Huang, Hongqiang Song, Hui Tian, Pengfei Chen, Robertus Erdélyi, Yao Chen
ApJ 2023
https://arxiv.org/pdf/2304.14859.pdf

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

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**

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

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

Impulsive and Gradual Eruptive Gamma Flares and Associated CMEs
Alexei Struminsky, **Irina GRIGORIEVA and Andrei SADOVSKI**
RHESSI Nuggets **#413** 2021
https://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Impulsive_and_Gradual_Eruptive_Gamma_Flares_and_Associated_CMEs

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

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 Statistical Study of Solar Radio Type III Bursts and Space Weather Implication
Theogene Ndacyayisenga**, Jean Uwamahoro, K. Sasikumar Raja, Christian Monstein**
Advances in Space Research 2020
https://arxiv.org/pdf/2012.01210.pdf

Transition region contribution to AIA observations in the context of coronal heating
Samuel J. Schonfeld**, James A. Klimchuk**
ApJ 2020
https://arxiv.org/pdf/2009.06759.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

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**
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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**
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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**
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https://arxiv.org/pdf/1905.12878.pdf File

Burst locating capability of the Korean Solar Radio Burst Locator (KSRBL)
J-E Hwangbo**, Su-Chan Bong, Show all 7 authors, Young-Deuk Park**
Journal of Astronomy and Space Science 32(1):91-99, 2015
https://www.researchgate.net/publication/275227108_Burst_locating_capability_of_the_Korean_Solar_Radio_Burst_Locator_KSRBL

Detection of spike-like structures near the front of type-II bursts
S. Armatas**, C. Bouratzis, A. Hillaris, C.E. Alissandrakis, P. Preka-Papadema, X. Moussas, E. Mitsakou, P. Tsitsipis, A. Kontogeorgos**
A&A 2019
https://arxiv.org/pdf/1902.10617.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**
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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

Interpretation of increased energetic particle flux measurements by SEPT aboard the STEREO spacecraft and contamination
S. Wraase**, B. Heber, S. Böttcher, R. Bucik, N. Dresing, Gómez-Herrero, A. Klassen, R. Müller-Mellin**
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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
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E.A. Bruevich**, G.V. Yakunina**
2017
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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**
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Observations of a Coronal Shock Wave and the Production of Solar Energetic Particles
Z. G. Xu**1,2, C. Li1,2, and M. D. Ding**
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T. Alberti**1, M. Laurenza2, E. W. Cliver3, M. Storini2, G. Consolini2, and F. Lepreti**
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Energy dependence of SEP electron and proton onset times
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Studies of the atmospheric structure of the solar white-light flare of August 9, 2011
A. N. Babin**, E. A. Baranovskii, A. N. Koval'**
Astronomy Reports August 2016**, Volume 60, Issue 8, pp 768-775**

Relationship of EUV Irradiance Coronal Dimming Slope and Depth to Coronal Mass Ejection Speed and Mass
James Paul Mason, Thomas N. Woods, David F. Webb, Barbara J. Thompson, Robin C. Colaninno,Angelos Vourlidas
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Low-Frequency Waves in Space Plasmas, Edited by Andreas Keiling, Dong-Hun Lee, Valery Nakariakov. Geophysical Monograph Series, Vol. 216. ISBN: 978-1-119-05495-5. Wiley, 2016**, p.381-394**
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Ryan O. Milligan
Conference proceedings for the symposium on "Solar and Stellar Flares and their Effects on the Planets" at the IAU General Assembly in Honolulu, HI, August 2015
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White-light continuum emission from a solar flare and plage
Arkadiusz Berlicki **(1,2), Arun Kumar Awasthi (1), Petr Heinzel (2), Michal Sobotka**
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Yuming Wang**, Zhenjun Zhou, Jie Zhang, Kai Liu, Rui Liu, Chenglong Shen, Phillip C. Chamberlin**
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High-energy solar particle events in cycle 24
Nat Gopalswamy**, Pertti Makela, Seiji Yashiro, Hong Xie, Sachiko Akiyama, Neeharika Thakur**
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Clara Froment**, Frédéric Auchère, Karine Bocchialini, Eric Buchlin, Chloé Guennou, Jacques Solomon**
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Alexei Struminsky**, Weiqun Gan**
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N. Gopalswamy**, P. Makela, S. Akiyama, S. Yashiro, H. Xie, N. Thakur, S. W. Kahler**
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Lisa M. Winter**, K. Balasubramaniam**
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Z. A. L. Sodré**, R. D. Cunha-Silva, F. C. R. Fernandes**
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Jung-Eun Hwangbo**, Jeongwoo Lee, Sung-Hong Park, Sujin Kim, Dae-Young Lee, Su-Chan Bong, Yeon-Han Kim, Kyung-Suk Cho, and Young-Deuk Park**
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Yuandeng Shen**, Ying D. Liu, P. F. Chen, Kiyoshi Ichimoto**
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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**
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A.K. Srivastava**, M. Goossens**
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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.**
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THE FIRST GROUND LEVEL ENHANCEMENT EVENT OF SOLAR CYCLE 24: DIRECT OBSERVATION OF SHOCK FORMATION AND PARTICLE RELEASE HEIGHTS
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Magnetism and the Invisible Man: The mysteries of coronal cavities Review
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Broadband microwave sub-second pulsations in an expanding coronal loop of the 2011 August 10 flare
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http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v3.pdf

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Chun Xia**, Rony Keppens**
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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.**

11 Aug залимбовый пересвет 10:16 ←16s 8s→A=36/312=0.12 и рядом <0.2 не берём

11 Aug, 10:23 – **Лимбовая эрупция, C6.2 вспышка, CME,** корональная волна**.**
Хорошо видно на STEREO-A**.**
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M.V. Sieyra**, M. Cécere, H. Cremades, F.A. Iglesias, A. Sahade, M. Mierla, G. Stenborg, A. Costa, M. West, E. D'Huys**
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A Statistical Study of Solar Filament Eruptions That Forms High-Speed Coronal Mass Ejections
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James Paul Mason, Thomas N. Woods, David F. Webb, Barbara J. Thompson, Robin C. Colaninno,Angelos Vourlidas
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12 Aug
Magnetism and the Invisible Man: The mysteries of coronal cavities Review
Sarah Gibson
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On the Impulsive Heating of Quiet Solar Corona
Vishal Upendran **(IUCAA, Pune), Durgesh Tripathi (IUCAA, Pune)**
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Temperature of Solar Prominences Obtained with the Fast Imaging Solar Spectrograph on the 1.6 m New Solar Telescope at the Big Bear Solar Observatory
Hyungmin Park**, Jongchul Chae, Donguk Song, …**
Solar Physics, November 2013**, Volume 288, Issue 1, pp 105-116**

17 Aug, >02 – **Прилимбовая эрупция, C1.9 вспышка, CME,** корональная волна**.**
Хорошо видно на STEREO-A**.**

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**
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Modeling Differential Faraday Rotation in the Solar Corona
Jason E. Kooi **& Molly E. Kaplan**
Solar Physics volume 295, Article number: 114 (2020**)**
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Jun Lin**, Nicholas A. Murphy, Chengcai Shen, John C. Raymond, Katharine K. Reeves,Jiayong Zho ng, Ning Wu, Yan Li**
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Su**, Y., Veronig, A. M., Holman, G. D., Dennis, B. R., Wang, T. J., Temmer, M., Gan, W. Q.**
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Optical Spectral Observations of a Flickering White-light Kernel in a C1 Solar Flare
Adam F. Kowalski**1,4, Gianna Cauzzi2, and Lyndsay Fletcher**
2015 **ApJ 798 107**

18-19 Aug
Small-scale magnetic and velocity inhomogeneities in a sunspot light bridge
Rohan E. Louis
Advances in Space Research 2015
http://arxiv.org/pdf/1509.00761v1.pdf

19 Aug

Fine magnetic characteristics of a light bridge observed by Hinode
S. Liu**, D. Liu**
Advances in Space Research Volume 55, Issue 12, 15 June 2015**, Pages 2931–2939**
https://arxiv.org/pdf/1902.00348.pdf

Calibration of Hinode/XRT for Coalignment
Yoshimura**, K., McKenzie, David E.**
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http://ylstone.physics.montana.edu/yosimura/hinode/coalignment/KY_coal_paper_20150706.pdf

Anomalous flows in a sunspot penumbra
Rohan E. Louis**, Christian Beck, Shibu K. Mathew, P. Venkatakrishnan**
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Small scale chromospheric jets above a sunspot light bridge
Rohan E. Louis**, Christian Beck, Kiyoshi Ichimoto**
A&A, 2014
http://arxiv.org/pdf/1406.0103v1.pdf

23 Aug

Testing the Asymmetric Cone Model for Halo CMEs Using STEREO/SECCHI Coronagraphic Observations
Janusz Nicewicz**, , Grzegorz Michalek**
Advances in Space Research, 2014

24 Aug

Magnetism and the Invisible Man: The mysteries of coronal cavities Review
Sarah Gibson
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https://arxiv.org/pdf/1711.09254.pdf

25 Aug

Kelvin–Helmholtz instability of magnetohydrodynamic waves propagating on solar surges
I. Zhelyazkov**, R. Chandra, A. K. Srivastava, T. Mishonov**
Astrophysics and Space Science, April 2015**, Volume 356, Issue 2, pp 231-240**

THE KINEMATICS AND PLASMA PROPERTIES OF A SOLAR SURGE TRIGGERED BY CHROMOSPHERIC ACTIVITY IN AR11271
P. Kayshap**1,2, Abhishek K. Srivastava1, and K. Murawski**
2013 **ApJ 763 24**

26 Aug

Statistical study of type III bursts and associated HXR emissions
James, Tomin ; Vilmer, Nicole
Astronomy & Astrophysics, Volume 673, id.A57, 13 pp. **2023**
https://www.aanda.org/articles/aa/pdf/2023/05/aa45825-22.pdf
https://solarpreprint.org/james_vilmer_accepted.pdf

Doppler-velocity Drifts Detected in a Solar Prominence
Maciej Zapiór**1, Petr Heinzel1,2, and Elena Khomenko3,4**
2022 **ApJ 934 16**
https://iopscience.iop.org/article/10.3847/1538-4357/ac778a/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

28 Aug

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.**

28 Aug - 3 Sept
Properties of the inner penumbral boundary and temporal evolution of a decaying sunspot
M. Benko**1, S. J. González Manrique1, H. Balthasar2, P. Gömöry1, C. Kuckein2 and J. Jurčák**
A&A 620, A191 (2018**)**
sci-hub.tw/10.1051/0004-6361/201834296
https://arxiv.org/pdf/1810.13185.pdf

29 Aug

Distinguishing between Flaring and Non-Flaring Active Regions: A Machine Learning Perspective
Soumitra Hazra**, Gopal Sardar, Partha Choudhuri**
A&A 2020
https://arxiv.org/pdf/2003.03878.pdf

Antipodal Flares
B. Pecos **and B. Paul**
RHESSI Science Nugget, No. 197, Apr 2013
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Antipodal_Flares

30 Augt – 22:56: C5.5 **вспышка,** пересвет **на STEREO-B, B=3.5*2/283=0.0,025**

30 Aug

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

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

31 Aug-11 Sep
Extreme-ultraviolet Late Phase in Homologous Solar Flares from a Complex Active Region
Y. Zhong**, Y. Dai, M. D. Ding**
ApJ 2021
https://arxiv.org/pdf/2105.10069.pdf

September 2011
Numerical Simulation of Multiple CME-Driven Shocks in the Month of 2011 September†
Chin-Chun Wu**, Kan Liou, Angelos Vourlidas, Simon Plunkett, Murray Dryer, S. T. Wu, Dennis Socker, Brian E. Wood, Lynn Hutting, Russell A. Howar**
JGR 2016

Wind Boundaries for Driving 3D-MHD Models
H.-S. Yu**, B. V. Jackson, P. P. Hick, A. Buffington, D. Odstrcil, C.-C. Wu, J. A. Davies, M. M. Bisi, M. Tokumaru**
Solar Phys. 2015

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

1-6 September
A STATISTICAL STUDY OF FLARE PRODUCTIVITY ASSOCIATED WITH SUNSPOT PROPERTIES IN DIFFERENT MAGNETIC TYPES OF ACTIVE REGIONS
Ya-Hui Yang**1, Min-Shiu Hsieh2, Hsiu-Shan Yu3, and P. F. Chen4**
2017 **ApJ 834 150**
http://sci-hub.cc/doi/10.3847/1538-4357/834/2/150

Nonlinear Force-Free Field Extrapolation of a Coronal Magnetic Flux Rope Supporting a Large-Scale Filament from Photospheric Vector Magnetogram
Chaowei Jiang**, S. T. Wu, Xueshang Feng, Qiang Hu**
ApJL, 2014
http://arxiv.org/pdf/1403.7807v1.pdf

1-10 Sept
A Helioseismic Survey of Near-surface Flows Around Active Regions and their Association with Flares
D. C. Braun
ApJ 2015
http://arxiv.org/pdf/1602.00038v1.pdf

2 Sept

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

The UCSD kinematic IPS solar wind boundary and its use in the ENLIL 3-D MHD prediction model
B. V. Jackson**1,*, D. Odstrcil2,3, H.-S. Yu1, P. P. Hick1, A. Buffington1, J. C. Mejia-Ambriz1,4, J. Kim5, S. Hong5, Y. Kim5, J. Han5 and M. Tokumaru**
Space Weather Volume 13, Issue 2, pages 104–115, February 2015

2-9 Sep

Deep-learning Reconstruction of Sunspot Vector Magnetic Fields for Forecasting Solar Storms
Dattaraj B. Dhuri**1,2, Shamik Bhattacharjee1, Shravan M. Hanasoge1,2, and Sashi Kiran Mahapatra1**
2022 **ApJ 939 64**
https://iopscience.iop.org/article/10.3847/1538-4357/ac9413/pdf

3 Sept

Statistical analysis of the onset temperature of solar flares in 2010-2011
Douglas Félix da **Silva**, Li Hui, Paulo J. A. Simões, Adriana Valio, Joaquim C. E. R., Hugh S. Hudson, Paulo J. A. Simoes, Lyndsay Fletcher, Laura A. Hayes, Iain G. Hannah
MNRAS **2023**
https://arxiv.org/pdf/2308.11017.pdf

Solar microflares: a case study on temperatures and the Fe XVIII emission
Urmila Mitra-Kraev**, Giulio Del Zanna**
A&A 2019
https://arxiv.org/pdf/1905.08579.pdf

3-7 Sep
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

4 Sept – 11:46: M3.2 **вспышка,** пересвет **на STEREO-A, A=18*2/312=0.12**

4 Sept **- ~04UT- корональная волна на STEREO-A**

4-8 September

Buildup of the Magnetic Flux Ropes in Homologous Solar Eruptions
Rui Wang**, Ying D. Liu, Shangbin Yang, Huidong Hu**
ApJ 2022
https://arxiv.org/pdf/2201.06817.pdf

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**

5 Sept – 04:41: M1.6 **вспышка,** пересвет **на STEREO-A, A=14*2/312=0.09 сомнительный**
08:16: M1.2 пересвет **A=11*2/312=0.07 ←16s 8s→** 07:56 **A=8*2/312=0.051**

5 Sept, >00-01 – значительная NW-лимбовая эрупция, CME и M1.6 вспышка.
На STEREO-A гало CME.
Перед этим еще несколько относительно слабых вспышек и эрупций.

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

Properties of Decameter IIIb–III Pairs
V. N. Melnik**, A. I. Brazhenko, A. V. Frantsuzenko, V. V. Dorovskyy, H. O. Rucker**
Solar Physics February 2018**, 293:26**
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1234-9.pdf

5-8 September

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

ANALYSIS ON CORRELATIONS BETWEEN SUBSURFACE KINETIC HELICITY AND PHOTOSPHERIC CURRENT HELICITY IN ACTIVE REGIONS
Yu Gao**1, Junwei Zhao2, and Hongqi Zhang**
2012 **ApJ 761 L9**

6 Sept – 01:51 M5.3 вспышка, пересвет **на STEREO-A, A=22*2/312=≥0,14**
прилимб для STEREO-A
22:21: X2.1 вспышка, пересвет **на STEREO-A, A≥95*2/312=≥0,61**

6 Sept, >01:50 UT - central sunspot 1283 produced значительную эрупцию, корональную волну,
an M5.3-class flare and Earth-directed CME. Хорошо видно на STEREO-A.
Gamma-flare
Источник бури 9-10-ого с Dst~-70-75 нТл

Evidence for flare-accelerated particles in large scale loops in the behind-the-limb gamma-ray solar flare of September 29, 2022
Melissa **Pesce-Rollins**, Karl-Ludwig Klein, Säm Krucker, Alexander Warmuth, M. Astrid Veronig, Nicola Omodei, Christian Monstein
A&A **2024**
https://arxiv.org/pdf/2402.08380.pdf **File**

Circular-ribbon flares and the related activities **Review**
Qingmin **Zhang**
Reviews of Modern Plasma Physics **2024**
https://arxiv.org/pdf/2401.16101.pdf

Photospheric Lorentz force changes in eruptive and confined solar flares
Samriddhi Sankar **Maity**, Ranadeep Sarkar, Piyali Chatterjee, Nandita Srivastava
ApJ **2023**
https://arxiv.org/pdf/2312.06787.pdf

Coronal dimmings as indicators of early CME propagation direction
Shantanu **Jain**, Tatiana Podladchikova, Galina Chikunova, Karin Dissauer, Astrid M. Veronig
A&A **2023**
https://arxiv.org/pdf/2311.13942.pdf

Particle Acceleration and Their Escape into the Heliosphere in Solar Flares with Open Magnetic Field
Mykola **Gordovskyy**1,2, Philippa K. Browning2, Kanya Kusano3, Satoshi Inoue4, and Grigory E. Vekstein2
2023 ApJ **952** 75
https://arxiv.org/pdf/2305.19449.pdf
https://iopscience.iop.org/article/10.3847/1538-4357/acdb4d/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

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

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

Data-driven modeling of solar coronal magnetic field evolution and eruptions
Chaowei Jiang**, Xueshang Feng, Yang Guo, Qiang Hu**
The Innovation 2022
https://www.cell.com/the-innovation/fulltext/S2666-6758(22)00032-7
https://doi.org/10.1016/j.xinn.2022.100236

A New Magnetic Parameter of Active Regions Distinguishing Large Eruptive and Confined Solar Flares
Ting Li**1,2, Xudong Sun3, Yijun Hou1,2, Anqin Chen4, Shuhong Yang1,2, and Jun Zhang5**
2022 **ApJL 926 L14**
https://iopscience.iop.org/article/10.3847/2041-8213/ac5251/pdf

Temperature Analysis of Flaring (AR11283) and non-Flaring (AR12194) Coronal Loops
Narges Fathalian**, Seyedeh Somayeh Hosseini Rad, Nasibeh Alipour, Hossein Safari**
2022
https://arxiv.org/pdf/2201.00214.pdf

ПРЕДВЕСТНИКИ СОЛНЕЧНЫХ ВСПЫШЕК В МИКРОВОЛНОВОМ ДИАПАЗОНЕ
Абрамов-Максимов В.Е., Бакунина И.А.
Изв. КрАО Том: 117Номер: 1 Год: 2021 Страницы: 38-43

Extreme-ultraviolet Late Phase in Homologous Solar Flares from a Complex Active Region
Y. Zhong**, Y. Dai, M. D. Ding**
ApJ 2021
https://arxiv.org/pdf/2105.10069.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

Image Desaturation for SDO/AIA Using Deep Learning
Xuexin Yu**, Long Xu & Yihua Yan**
Solar Physics volume 296, Article number: 56 (2021**)**
https://doi.org/10.1007/s11207-021-01808-2
https://link.springer.com/content/pdf/10.1007/s11207-021-01808-2.pdf

Desaturated EUV Flare Ribbons in an X-class Flare
Säm Krucker**1,2, Gabriele Torre1,3, and Richard A. Schwartz4,5**
2021 **ApJ 909 43**
https://doi.org/10.3847/1538-4357/abcf30

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

Harmonic ECME Excited by Energetic Electrons Travelling Inside A Coronal Loop
M. Yousefzadeh**, H. Ning, Y. Chen**
ApJ 2021
https://arxiv.org/pdf/2101.01526.pdf

Source-region characteristics of anemone active regions in the ascending phase of solar cycle 24
R. Sharma **and C. Cid**
A&A 642, A233 (2020)
https://www.aanda.org/articles/aa/pdf/2020/10/aa38927-20.pdf
https://doi.org/10.1051/0004-6361/202038927
https://sci-hub.st/https://www.aanda.org/articles/aa/abs/2020/10/aa38927-20/aa38927-20.html

Magnetohydrodynamic Simulation of Magnetic Null-point Reconnections and Coronal dimmings during the X2.1 flare in NOAA AR 11283
Avijeet Prasad**, Karin Dissauer, Qiang Hu, R. Bhattacharyya, Astrid M. Veronig, Sanjay Kumar, Bhuwan Joshi**
ApJ 2020
https://arxiv.org/pdf/2009.11109.pdf

Sunquake with a second bounce, other sunquakes, and emission associated with the X9.3 flare of 6 September 2017. II. Proposed interpretation
Valentina Zharkova**1 , Sergei Zharkov2 , Malcolm Druett3 , Sarah Matthews4 , and Satoshi Inoue5**
A&A 2020
https://solargsm.com/wp-content/uploads/2020/05/Zharkova_et-al_6sept17_aa20.pdf

EUV Wave Detection and Characterization Using Deep Learning
Long Xu**, Sixuan Liu, Yihua Yan & Weiqiang Zhang**
Solar Physics volume 295, Article number: 44 (2020**)**
https://link.springer.com/content/pdf/10.1007/s11207-020-01612-4.pdf
https://doi.org/10.1007/s11207-020-01612-4

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

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

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

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

Formation and Eruption of an Active Region Sigmoid. II. Magnetohydrodynamic Simulation of a Multistage Eruption
Chaowei Jiang**1,2,3, Xueshang Feng1,2, and Qiang Hu3**
2018 **ApJ 866 96**
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Investigation of white-light emission in circular-ribbon flares
Yongliang Song**, Hui Tian**
ApJ 2018
https://arxiv.org/pdf/1810.02958.pdf

Lost and found sunquake in the 6 September 2011 flare caused by beam electrons
Connor Macrae**, Sergei Zharkov, Valentina Zharkova, Malcolm Druett, Sarah Matthews, and Tomoko Kawate**
A&A 2018
http://computing.unn.ac.uk/staff/slmv5/kinetics/macrae1_quake_6sept_aa_paper_final.pdf

Magnetic Structure of Solar Flare Regions Producing Hard X-Ray Pulsations
I.V. Zimovets**, R. Wang**, **Y.D. Liu**, **C.C. Wang**, **S.A. Kuznetsov**, **I.N. Sharykin**, **A.B. Struminsky**, **V.M. Nakariakov**
JASTP Volume 174, September 2018**, Pages 17-27**
https://reader.elsevier.com/reader/sd/57C406616EBCC7F3D96944EB109BA6D4F5D66AE6550663538F70F573EDBECEA44C3F56C5ECD99D9123B1BAFD853872E3

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

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 the detection of coronal dimmings and the extraction of their characteristic properties
Karin Dissauer**, Astrid M. Veronig, Manuela Temmer, Tatiana Podladchikova, Kamalam Vanninathan**
ApJ 2018
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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

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

Correlation between Angular Widths of CMEs and Characteristics of Their Source Regions
X. H. Zhao**1,2, X. S. Feng1,2, H. Q. Feng3, and Z. Li4**
2017 **ApJ 849 79**
http://sci-hub.cc/http://iopscience.iop.org/0004-637X/849/2/79/

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

Magnetic Structure and Electric Currents in Solar Flare Regions Producing Hard X-Ray Pulsations
I.V. Zimovets**, R. Wang, Y.D. Liu, C.C. Wang, S.A. Kuznetsov, I.N. Sharykin, A.B. Struminsky, V.M. Nakariakov**
Solar Phys. 2017
https://arxiv.org/pdf/1708.01869.pdf

Polarization Characteristics of Zebra Patterns in Type IV Solar Radio Bursts
K. Kaneda**1, H. Misawa1, K. Iwai2, F. Tsuchiya1, T. Obara1, Y. Katoh3, and S. Masuda4**
2017 **ApJ 842 45**
http://sci-hub.cc/10.3847/1538-4357/aa74c1

Magnetohydrodynamic Modeling of Solar Coronal Dynamics with an Initial Non-force-free Magnetic Field
A. Prasad**, R. Bhattacharyya, and Sanjay Kumar**
2017 **ApJ 840 37**
http://sci-hub.cc/10.3847/1538-4357/aa6c58

3D magnetic reconnection and its application to solar flares Review
Miho Janvier
Journal of Plasma Physics Special Collection on New Perspectives in Plasma Astrophysics 2016

https://arxiv.org/pdf/1612.06513v1.pdf

Temporal evolution and spatial distribution of white-light flare kernels in a solar flare
Tomoko Kawate**, Takako T. Ishii, Yoshikazu Nakatani, Kiyoshi Ichimoto, Ayumi Asai, Satoshi Morita, Satoshi Masuda**
ApJ 2016
https://arxiv.org/pdf/1610.04328v1.pdf

Large gradual solar energetic particle events Review
Mihir Desai**, Joe Giacalone**
Living Reviews in Solar Physics, December 2016**, 13:3**
http://solarphysics.livingreviews.org/

The Energetics of White-light Flares Observed by SDO/HMI and RHESSI
Nengyi Huang**, Yan Xu, Haimin Wang**
Research in Astronomy and Astrophysics 2016
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Projection effects in coronal dimmings and associated EUV wave event
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A Data-Constrained Three-Dimensional Magnetohydrodynamic Simulation Model for a Coronal Mass Ejection (CME) Initiation†
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A Study of Connections Between Solar Flares and Subsurface Flow Fields of Active Regions
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Paulo J. A. Simões**, Hugh S. Hudson, Lyndsay Fletcher**
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Yu Gao**, Junwei Zhao, Hongqi Zhang**
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Michael B. Kennedy**1, Ryan O. Milligan1,2,3, Mihalis Mathioudakis1, and Francis P. Keenan** 2013 **ApJ 779 84**
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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.**
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Energy release from a stream of infalling prominence debris on 2011 September 7-8
Andrew R. Inglis**, Holly R. Gilbert, Leon Ofman**
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8 Sept – 15:46: M6.7 вспышка, пересвет **на STEREO-A, A=56*2/312=0,36**

8 Sept

Observation of a Flare and Filament Eruption in Lyman-αα on 8 September 2011 by the PRoject for OnBoard Autonomy/Large Yield Radiometer (PROBA2/LYRA)
L. Wauters**, M. Dominique, R. Milligan, I. E. Dammasch, M. Kretzschmar & J. Machol**
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Zhichen Jing**, Wuqi Pan, Yukun Yang, Dechao Song, Jun Tian, Y. Li, X. Cheng, Jie Hong, M. D. Ding**
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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**
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Multiwavelength observations of a partially eruptive filament on 2011 September 8
Q. M. Zhang**, Z. J. Ning, Y. Guo, T. H. Zhou, X. Cheng, H. S. Ji, L. Feng, T. Wiegelmann**
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A Study of Connections Between Solar Flares and Subsurface Flow Fields of Active Regions
Yu Gao**, Junwei Zhao, Hongqi Zhang**
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8-9 Sept
Critical magnetic field strengths for solar coronal plumes in quiet regions and coronal holes?
Ellis A. Avallone**, Sanjiv K. Tiwari, Navdeep K. Tiwari, Ronald L. Moore, Amy Winebarger**
ApJ 2018
https://arxiv.org/pdf/1805.11188.pdf

9 Sept – 06:16: M2.7 пересвет **A=69*2/312=0,44 ←16s 8s→**06:10 **A=40*2/312=0.256**
Пропуск на GOES
12:56: M1.2. вспышка, пересвет **на STEREO-A, A=10*2/312=0,06 сомнительный**

9 Sept **M1.2 non-eruptive solar flare**
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Extreme-ultraviolet Late Phase in Homologous Solar Flares from a Complex Active Region
Y. Zhong**, Y. Dai, M. D. Ding**
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Energy partition in a confined flare with an extreme-ultraviolet late phase
Q. M. Zhang**, J. X. Cheng, Y. Dai, K. V. Tam, A. A. Xu**
A&A 2021
https://arxiv.org/pdf/2104.03677.pdf

Extremely Large Extreme-ultraviolet Late Phase Powered by Intense Early Heating in a Non-eruptive Solar Flare
Yu Dai**, Mingde Ding, Weiguo Zong, Kai E. Yang**
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Observation of an Extremely Large-Density Heliospheric Plasma Sheet Compressed by an Interplanetary Shock at 1 AU
Chin-Chun Wu**, Kan Liou, R. P. Lepping, Angelos Vourlidas, Simon Plunkett, Dennis Socker, S. T. Wu**
Solar Physics August 2017**, 292:109**

The radial speed-expansion speed relation for Earth-directed CMEs
P. Mäkelä**, N. Gopalswamy, S. Yashiro**
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Chin-Chun Wu**, Kan Liou, Angelos Vourlidas, Simon Plunkett, Murray Dryer, S. T. Wu, Dennis Socker, Brian E. Wood, Lynn Hutting, Russell A. Howar**
JGR 2016

Structures of Interplanetary Magnetic Flux Ropes and Comparison with Their Solar Sources
Qiang Hu**, Jiong Qiu, B. Dasgupta, A. Khare, and G. M. Webb**
ApJ, 2014; File
https://dl.dropboxusercontent.com/u/96898685/ms_fr_v4.pdf

9-10 Sept
Properties of the HPS-ICME-CIR Interaction Event of 9–10 September 2011
Duraid A. Al-Shakarchi**, Huw Morgan**
JGR 2018
https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2017JA024849

10 Sept – 07:51: M1.1 вспышка, пересвет **на STEREO-A, A=15*2/312=0,1 сомнительный**

10.09, 01-03 UT – Эрупция крупного центрального/северного волокна.
Хорошее распространяющееся на север потемнение на 304 A. CME

Solar coronal magnetic fields derived using seismology techniques applied to omnipresent sunspot waves
D.B. Jess**, V.E. Reznikova, R.S.I. Ryans, D.J. Christian, P.H. Keys, M. Mathioudakis, D.H. Mackay, S. Krishna Prasad, D. Banerjee, S.D.T. Grant, S. Yau, C. Diamond**
Nature Physics, 12, 179 (2016**; DOI:10.1038/nphys3544)**
http://arxiv.org/pdf/1605.06112v1.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
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10-11 Sept

Geomagnetic storm forecasting service StormFocus: 5 years online
Tatiana Podladchikova**, Anatoly Petrukovich and Yuri Yermolaev**
J. Space Weather Space Clim. 2018**, 8, A22**
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Satoshi Inoue
Progress in Earth and Planetary Science 2016 **3:19**
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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
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On the Relationship Between a Hot-channel-like Solar Magnetic Flux Rope and its embedded Prominence
X. Cheng**, M. D. Ding, J. Zhang, A. K. Srivastava, Y. Guo, P. F. Chen, J. Q. Sun**
2014**, ApJ Letters**
http://arxiv.org/pdf/1406.4196v1.pdf

SDO/AIA Observations of a Partially Erupting Prominence
Durgesh Tripathi**1, Katharine K. Reeves2, Sarah E. Gibson3, Abhishek Srivastava4, and Navin C. Joshi**
2013 **ApJ 778 142;** File
http://arxiv.org/pdf/1310.0162v1.pdf

Discovery of the Sausage-Pinch Instability in Solar Corona
Abhi K. Srivastava**1, R. Erdélyi2, V. Fedun2, P. Kayshap1, N.C. Joshi1, D. Tripathi**
UKSP nugget 34, 2013. **http://www.uksolphys.org/?p=6158**

OBSERVATIONAL EVIDENCE OF SAUSAGE-PINCH INSTABILITY IN SOLAR CORONA BY SDO/AIA
A. K. Srivastava**1, R. Erdélyi2, Durgesh Tripathi3, V. Fedun2,4, N. C. Joshi1, and P. Kayshap**
2013 **ApJ 765 L42**

13.09, >22 UT –Центральная/северная эрупция. Гало CME.
Источник бури 17-ого с Dst~-75 нТл

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

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 Solar X-ray Corona **Review**
Paola Testa, Fabio Reale
Book chapter. To appear in Springer's "Handbook of X-ray and Gamma-ray Astrophysics" (eds. A. Santangelo and C. Bambi), Section "The Sun, Stars & Planets" (eds. G. Micela & B. Stelzer) 2022
https://arxiv.org/pdf/2206.03530.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

Modeling of Solar Atmosphere Parameters Above Sunspots Using RATAN-600 Microwave Observations
A. G. Stupishin**, T. I. Kaltman, V. M. Bogod, L. V. Yasnov**
Solar Physics **January** 2018**, 293:13**
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1228-7.pdf

Elongation of Flare Ribbons
Jiong Qiu**1, Dana W. Longcope1, Paul A. Cassak2, and Eric R. Priest**
2017 **ApJ 838 17 DOI 10.3847/1538-4357/aa6341**
http://sci-hub.cc/10.3847/1538-4357/aa6341

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

LONG DURATION FLARE EMISSION: IMPULSIVE HEATING OR GRADUAL HEATING?
Jiong Qiu **and Dana W. Longcope**
ApJ 820 14 2016
http://arxiv.org/pdf/1604.05342v1.pdf

Numerical Simulation of Multiple CME-Driven Shocks in the Month of 2011 September†
Chin-Chun Wu**, Kan Liou, Angelos Vourlidas, Simon Plunkett, Murray Dryer, S. T. Wu, Dennis Socker, Brian E. Wood, Lynn Hutting, Russell A. Howar**
JGR 2016

Reduced Coronal Emission above Large Isolated Sunspots
B. I. Ryabov**, D. E. Gary, N. G. Peterova, K. Shibasaki, and N. A. Topchilo**
Solar Phys., 2014
http://www.ltn.lv/~ryabov/paper_1.pdf

Structures of Interplanetary Magnetic Flux Ropes and Comparison with Their Solar Sources
Qiang Hu**, Jiong Qiu, B. Dasgupta, A. Khare, and G. M. Webb**
ApJ, 2014; File
https://dl.dropboxusercontent.com/u/96898685/ms_fr_v4.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

Thermal structure of a hot non-flaring corona from Hinode/EIS
A. Petralia**1, F. Reale1,2, P. Testa3 and G. Del Zanna**
A&A 564, A3 (2014**)**
http://www.aanda.org/articles/aa/pdf/2014/04/aa22998-13.pdf

14 Sept

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

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

Unambiguous Evidence of Coronal Implosions During Solar Eruptions and Flares
Juntao Wang**, P. J. A. Simoes, L. Fletcher**
ApJ 2018
https://arxiv.org/pdf/1804.02354.pdf

15 September
A MICROFILAMENT-ERUPTION MECHANISM FOR SOLAR SPICULES
Alphonse C. Sterling**1 and Ronald L. Moore1,2**
2016 **ApJ 828 L9 DOI 10.3847/2041-8205/828/1/L9**
https://arxiv.org/pdf/1612.00430v1.pdf

THE CORONAL LOOP INVENTORY PROJECT
J. T. Schmelz**, S. Pathak, G. M. Christian, R. S. S. Dhaliwal, and K. S. Paul**
2015 **ApJ 813 71**

16 Sept – 00:16: C7.8 пересвет **A=36*2/312=0,23 ←16s 8s→ A=36/312= 0.115**

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

Investigating the Magnetic Structure of Interplanetary Coronal Mass Ejections using Simultaneous Multi-Spacecraft In situ Measurements
F. **Regnault**, N. Al-Haddad, N. Lugaz, C. J. Farrugia, W. Yu, E. E. Davies, A. B. Galvin, B. Zhuang
ApJ **2023**

https://arxiv.org/pdf/2309.10582.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

Numerical Simulation of Multiple CME-Driven Shocks in the Month of 2011 September†
Chin-Chun Wu**, Kan Liou, Angelos Vourlidas, Simon Plunkett, Murray Dryer, S. T. Wu, Dennis Socker, Brian E. Wood, Lynn Hutting, Russell A. Howar**
JGR 2016

Structures of Interplanetary Magnetic Flux Ropes and Comparison with Their Solar Sources
Qiang Hu**, Jiong Qiu, B. Dasgupta, A. Khare, and G. M. Webb**
ApJ, 2014; File
https://dl.dropboxusercontent.com/u/96898685/ms_fr_v4.pdf

18 Sept – 07:36: C2.9 вспышка, пересвет **на STEREO-B, B=3,5*2/280=0,03**

19 September

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

He I spectropolarimetry of a supersonic coronal downflow within a sunspot umbra
Thomas A. Schad**, Gabriel I. Dima, Tetsu Anan**
ApJ 2021
https://arxiv.org/pdf/2105.12853.pdf

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

21 Sept – 12:11: M1.8 вспышка, пересвет **на STEREO-B, B=43*2/280=0,31**

21 Sept

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

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

---

22- Sept - высокая активность

Solar Max Arrives

Hugh Hudson **and Richard Schwartz**

RHESSI Science Nugget, No. 159, Sep 2011

http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Solar_Max_Arrives

Already in 2011 we have had seven X-class flares! These bring glad tidings of gamma-rays.

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22 Sept – 10:56: X1.4 вспышка, пересвет **на STEREO-B, B=26*2/280= 0,19**

множественный

22.09, ~11 UT - a long-duration X1.4 fare coming from eastern limb,
корональная волна, a significant CME

See **http://www.swpc.noaa.gov/sites/default/files/images/u33/Rutledge_SWW_2016.pdf**

Energetics of a solar flare and a coronal mass ejection generated by a hot channel eruption

Qingmin **Zhang**, Weilin Teng, Dong Li, Jun Dai, Yanjie Zhang

ApJ 2023

https://arxiv.org/pdf/2310.14010.pdf

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

Explainable Deep Learning-based Solar Flare Prediction with post hoc Attention for Operational Forecasting

Chetraj Pandey**, Rafal A. Angryk, Manolis K. Georgoulis, Berkay Aydin**

the 26th International Conference on Discovery Science (DS2023) 2023

https://arxiv.org/pdf/2308.02682.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

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

The State of the Heliosphere Revealed by Limb Halo Coronal Mass Ejections in Solar Cycles 23 and 24

Nat Gopalswamy**, Sachiko Akiyama, Seiji Yashiro**

ApJL 2020

https://arxiv.org/ftp/arxiv/papers/2006/2006.05844.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

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

Variable emission mechanism of a Type IV radio burst
D. E. Morosan**, E. K. J. Kilpua, E. P. Carley, C. Monstein**
A&A 2019
https://arxiv.org/pdf/1902.01140.pdf

Properties of DH Type II Radio Bursts and Their Space Weather Implications
N. Gopalswamy**, P. Mäkelä**
submitted to the URSI AP-RASC 2019 2018
https://arxiv.org/ftp/arxiv/papers/1810/1810.11173.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

Interplanetary radio type II and type IV bursts as indicators of propagating solar transients
Silja Pohjolainen**, Nasrin Talebpour Sheshvan**
Proceedings of 2nd URSI AT-RASC Meeting in Gran Canaria, 28 May - 1 June 2018 2018
https://arxiv.org/ftp/arxiv/papers/1806/1806.05065.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

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

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

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

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

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

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

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

Low frequency radio observations of bi-directional electron beams in the solar corona
Eoin P. Carley**, Hamish Reid, Nicole Vilmer, Peter T. Gallagher**
2015
http://arxiv.org/pdf/1508.01065v1.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

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

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

Does the region of flare-energy release work as a vacuum-cleaner?,
Solov'ev**, A., Murawski, K.,**
Astrophysics and Space Science 350, 11, 2014**,**

Quasiperiodic acceleration of electrons by a plasmoid-driven shock in the solar atmosphere

Eoin P. Carley**, David M. Long, Jason P. Byrne, Pietro Zucca, D. Shaun Bloomfield, Joseph McCauley, Peter T. Gallagher**
(2013**). Nature Physics, 9, 811-816**
http://arxiv.org/pdf/1406.0743v1.pdf ; File **(**2014**)**

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

The formation heights of coronal shocks from 2D density and Alfvén speed maps
Pietro Zucca**, Eoin P. Carley, D. Shaun Bloomfield, Peter T. Gallagher**
E-print, March 2014**; A&A**
http://arxiv.org/pdf/1402.4051v2.pdf

Quasiperiodic acceleration of electrons by a plasmoid-driven shock in the solar atmosphere
Eoin P. Carley**, David M. Long, Jason P. Byrne, Pietro Zucca, D. Shaun Bloomfield, Joseph McCauley and Peter T. Gallagher**
E-print, Oct 2013; **Nature Physics (**2013**) doi:10.1038/nphys2767**

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

Observations of Low Frequency Solar Radio Bursts from the Rosse Solar-Terrestrial Observatory
P. Zucca**, E. P. Carley, J. McCauley, P. T. Gallagher, C. Monstein, R. T. J. McAteer**
E-print, 4 April 2012**, Solar Phys.**

Charge-exchange Limits on Low-energy α-particle Fluxes in Solar Flares
Hudson, H. S.; Fletcher, L.; MacKinnon, A. L.; Woods, T. N.
E-print, Feb 2014**; ApJ 752, 84 (**2012**)**
http://arxiv.org/pdf/1401.6477v1.pdf

23 Sept –02:16: M1.6 пересвет **A=23*2/312= 0,15 ←16s 8s→A=23/312= 0.073**

23.09

Circular-ribbon flares and the related activities **Review**
Qingmin **Zhang**
Reviews of Modern Plasma Physics **2024**
https://arxiv.org/pdf/2401.16101.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 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

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

23-24 Sept – 00:06: M1.9 вспышка, пересвет **на STEREO-B, B=10,5*2/280=0.08**
Нет кадра 00:00

23-24 September

КОСМИЧЕСКАЯ ПОГОДА: ФАКТОРЫ РИСКА ДЛЯ ГЛОБАЛЬНЫХ НАВИГАЦИОННЫХ СПУТНИКОВЫХ СИСТЕМ Review
Демьянов **В.В., Ясюкевич Ю.В.**
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 7 № 2 , 2021**, С. 24–29**
https://naukaru.ru/ru/storage/viewWindow/72945

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

Observation of a Quasi-periodic Pulsation in Hard X-ray, Radio and Extreme-ultraviolet Wavelengths
Pankaj Kumar**, Valery M. Nakariakov, Kyung-Suk Cho**
ApJ 2016
http://arxiv.org/pdf/1603.03121v1.pdf

23-29 Sept
Solar Flare Intensity Prediction with Machine Learning Models
Zhenbang Jiao**, Hu Su, Xiantong Wang, Ward Manchester, Tamas Gombosi, Alfred Hero, Yang Chen**
Space Weather 2019
https://arxiv.org/pdf/1912.06120.pdf

24 Sept – 09:41: X1.9 вспышка, пересвет **на STEREO-B, B=108*2/280= 0,77**
Гречнев нашёл 12:56: M7.1 вспышка, пересвет **на STEREO-B, B=17*2/280=0.12**
Вставить Многоэлементный пересвет
17:31: M3.1 вспышка, пересвет **на STEREO-B, B=18*2/280= 0,13**
18:16: M2.8 пересвет **B=21*2/280= 0,15 ←16s 8s→ B=21/280=0.075**
19:36: M3.0 вспышка, пересвет **на STEREO-B, B=21*2/280= 0,15**
20:37: M5.8 вспышка, пересвет **на STEREO-B, B=32*2/280=0,23**
21:36: M1.2 вспышка, пересвет **на STEREO-A, A=14*2/312= 0,09**

24.09 **- Region 11302 (N12E60) has produced 2 major events so far today, first an impulsive X1.9 flare at 09:40 with a strong hard radio burst and a small CME,** gamma flare**, then the more important M7.1** long duration event **peaking at 13:20 UTC. The latter event was associated with a** coronal wave**, large, bright and wide CME which appears to be asymmetrical full halo in LASCO.**
Геомагниная буря 26-ого с Dst~117 нТл
See **http://msslxr.mssl.ucl.ac.uk:8080/SolarB/nuggets/nugget_2011dec.jsp**

See **http://www.swpc.noaa.gov/sites/default/files/images/u33/Rutledge_SWW_2016.pdf**

Unraveling the Thermodynamic Enigma between Fast and Slow Coronal Mass Ejections
Soumyaranjan **Khuntia**, Wageesh Mishra, Sudheer K Mishra, Yuming Wang, Jie Zhang, Shaoyu Lyu
ApJ **2023**
https://arxiv.org/pdf/2310.06750.pdf

Observational Analysis of Lyman-alpha Emission in Equivalent Magnitude Solar Flares
Harry J. **Greatorex**, Ryan O. Milligan, Phillip C. Chamberlin
ApJ **2023**
https://arxiv.org/pdf/2306.16234.pdf

Imaging Preflare Broadband Pulsations in the Decimetric-metric Wavelengths
Maoshui **Lv**, Baolin Tan, Ruisheng Zheng, Zhao Wu, Bing Wang, Xiangliang Kong, Yao Chen
ApJ **2023**
https://arxiv.org/pdf/2304.11785.pdf

Data-constrained MHD Simulation of a Multi-ribbon Flare Corresponding to a Successful and a Confined Eruption
Wentai **Fu**1,2, Yang Guo1,2, Mingde Ding1,2, Ze Zhong3, and Ye Qiu1,2
2023 ApJ 944 179
https://iopscience.iop.org/article/10.3847/1538-4357/acb6fb/pdf

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

Spatially Resolved Moving Radio Burst in Association with an EUV Wave
Lei Lu, **Li Feng**, **Weiqun Gan**
ApJL 2022
https://arxiv.org/pdf/2205.03047.pdf

Type IV Radio Bursts and Associated Active Regions in the Sunspot Cycle 24
Anshu Kumari
Solar Phys. 2022
https://arxiv.org/pdf/2205.02482.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

Validation of the SMOS mission for Space Weather operations: The potential of near real-time solar observation at 1.4 GHz
M. Flores-Soriano **, C. Cid , R. Crapolicchio**
Space Weather e2020SW002649 2021
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002649
https://doi.org/10.1029/2020SW002649

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

A Solar Stationary Type IV Radio Burst and Its Radiation Mechanism
Hongyu Liu, **Yao Chen, Kyungsuk Cho, Shiwei Feng, Veluchamy Vasanth…**
Solar Physics **April** 2018**, 293:58**
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1280-y.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

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
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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

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

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Alexander Hillaris**, Constantine Bouratzis, Alexander Nindos**
Solar Physics 2016
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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

Numerical Simulation of Multiple CME-Driven Shocks in the Month of 2011 September†
Chin-Chun Wu**, Kan Liou, Angelos Vourlidas, Simon Plunkett, Murray Dryer, S. T. Wu, Dennis Socker, Brian E. Wood, Lynn Hutting, Russell A. Howar**
JGR 2016

Performance assessment of GPS receivers during the September 24, 2011 solar radio burst event
Bilal Muhammad**1*, Valentina Alberti2, Alessandro Marassi2, Ernestina Cianca1 and Mauro Messerotti2**
J. Space Weather Space Clim., 5, A32 (2015**)**

http://www.swsc-journal.org/articles/swsc/pdf/2015/01/swsc150025.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
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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

Solar Flare Chromospheric Line Emission: Comparison Between IBIS High-resolution Observations and Radiative Hydrodynamic Simulations
Fatima Rubio da Costa**, Lucia Kleint, Vah? Petrosian, Alberto Sainz Dalda, Wei Liu**
2014
http://arxiv.org/pdf/1412.1815v1.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

Testing the Asymmetric Cone Model for Halo CMEs Using STEREO/SECCHI Coronagraphic Observations
Janusz Nicewicz**, , Grzegorz Michalek**
Advances in Space Research, 2014

Effect of the 24 September 2011 solar radio burst on precise point positioning service
V. Sreeja**1,*, M. Aquino1, Kees de Jong2 and Hans Visse**
Space Weather, Volume 12, Issue 3, pages 143–147, March 2014

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

A Study of Connections Between Solar Flares and Subsurface Flow Fields of Active Regions
Yu Gao**, Junwei Zhao, Hongqi Zhang**
Solar Physics, February 2014**, Volume 289, Issue 2, pp 493-502**

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

Location of non-thermal velocity in the early phases of a large flare - revealing the pre-eruption flux rope?
Louise Harra**, Sarah Matthews, J. L. Culhane, Mark Cheung, E. Kontar, Hiro Hara**
EIS Nugget, Aug 2013
http://solarb.mssl.ucl.ac.uk/SolarB/eisnuggets.jsp

Impact of the 24 September 2011 solar radio burst on the performance of GNSS receivers
V. Sreeja**1,*, M. Aquino, 1, Kees de Jong**

Space Weather, Volume 11, Issue 5, pages 306–312, May 2013

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**

Too few? Too many?
Simoes**, P. J. A. and Kontar, E. P.**
RHESSI Science Nugget, No. 200, 2013

Implications for electron acceleration and transport from non-thermal electron rates at looptop and footpoint sources in solar flares
Simoes**, P. J. A. and Kontar, E. P.**
E-print, Feb 2013**; A&A 551, A135 (**2013**)**

EVIDENCE FOR THE WAVE NATURE OF AN EXTREME ULTRAVIOLET WAVE OBSERVED BY THE ATMOSPHERIC IMAGING ASSEMBLY ON BOARD THE SOLAR DYNAMICS OBSERVATORY
Yuandeng Shen**1,2 and Yu Liu**
2012 **ApJ 754 7,** File

SIMULTANEOUS OBSERVATIONS OF A LARGE-SCALE WAVE EVENT IN THE SOLAR ATMOSPHERE: FROM PHOTOSPHERE TO CORONA
Yuandeng Shen**1,2 and Yu Liu**
2012 **ApJ 752 L23,** File

A SOLAR TORNADO OBSERVED BY AIA/SDO: ROTATIONAL FLOW AND EVOLUTION OF MAGNETIC HELICITY IN A PROMINENCE AND CAVITY
Xing Li**1, Huw Morgan1,2, Drew Leonard1, and Lauren Jeska**
2012 **ApJ 752 L22,** File

Charge-exchange Limits on Low-energy α-particle Fluxes in Solar Flares
Hudson, H. S.; Fletcher, L.; MacKinnon, A. L.; Woods, T. N.
E-print, Feb 2014**; ApJ 752, 84 (**2012**)**
http://arxiv.org/pdf/1401.6477v1.pdf

24-26 Sep
On the Physical Nature of the so-Called Prominence Tornadoes **Review**
Stanislav **Gunár**, Nicolas Labrosse, Manuel Luna, Brigitte Schmieder, Petr Heinzel, Therese A. Kucera, Peter J. Levens, Arturo López Ariste, Duncan H. Mackay & Maciej Zapiór
Space Science Reviews volume 219, Article number: 33 (**2023**)
https://link.springer.com/content/pdf/10.1007/s11214-023-00976-w.pdf

25 Sept – 00:06: M1.0 вспышка, пересвет **на STEREO-A, A=4*2/102=0.078**
02:36: M4.4 вспышка, пересвет **на STEREO-B, B=29*2/280=0,21**
04:56**: M7.4 вспышка,** пересвет **на STEREO-B, B=21*2/280=0,15**
08:51: M3.1 вспышка, пересвет **на STEREO-B, B=25*2/280=0,18**
09:41: M1.5 вспышка, пересвет **на STEREO-A, A=18*2/312=0,12**
15:31: M3.7 вспышка, пересвет **на STEREO-B, B=28*2/280=0.2**
17:01: M2.2 вспышка, пересвет **на STEREO-B, B=11*2/280=0.08**

25.09, ~04:40 UT **– M7.4 вспышка (N13E50), хорошие димминги и корональная волна**

Утром 25 сентября 2011 года телескоп AIA зафиксировал у подножья протуберанца точку, в которой сверхгорячая плазма температурой от 50 тысяч до 2 миллионов градусов Кельвина поднималась в верхние слои атмосферы Солнца по спиральной траектории.

AI-FLARES: Artificial Intelligence for the Analysis of Solar Flares Data **Review**
Michele **Piana**, Federico Benvenuto, Anna Maria Massone, Cristina Campi, Sabrina Guastavino, Francesco Marchetti, Paolo Massa, Emma Perracchione, Anna Volpara
2024
https://arxiv.org/pdf/2401.01104.pdf

Thermal and Non-Thermal Properties of Active Region Recurrent Coronal Jets
Alin R. Paraschiv**, Alina C. Donea, Philip G. Judge**
ApJ 2022
https://arxiv.org/pdf/2207.12612.pdf

ПРЕДВЕСТНИКИ СОЛНЕЧНЫХ ВСПЫШЕК В МИКРОВОЛНОВОМ ДИАПАЗОНЕ
Абрамов-Максимов В.Е., Бакунина И.А.
Изв. КрАО Том: 117Номер: 1 Год: 2021 Страницы: 38-43

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 Trigger Mechanism of Recurrent Solar Active Region Jets Revealed by the Magnetic Properties of a Coronal Geyser Site
Alin Razvan Paraschiv**, Alina Donea, K.D. Leka**
ApJ 2020
https://arxiv.org/pdf/2002.11819.pdf

A Very Narrow RHESSI X-ray Flare on 25 September 2011
Brian R. Dennis**, Anne K. Tolbert**
ApJ 2019
https://arxiv.org/pdf/1910.13308.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

Coronal hard X-ray sources revisited
Brian R. Dennis**, Miguel A. Duval-Poo, Michele Piana, Andrew R. Inglis, A. Gordon Emslie, Jingnan Guo, Yan Xu**
ApJ 2018
https://arxiv.org/pdf/1809.04631.pdf

Analysis of Solar Gamma Rays and Solar Neutrons detected on March 7th and September 25th of 2011 by Ground Level Neutron Telescopes, SEDA-FIB and FERMI-LAT
Y. Muraki**, J.V. Galicia, X. Gonzalez, K. Kamiya, Y. Katayose, K. Koga, H. Matsumoto, S. Masuda, Y. Matsubara, Y. Nagai, M. Ohnishi, S. Ozawa, T. Sako, S. Shibata, M. Takita, Y. Tanaka, H. Tsuchiya, K. Watanabe and J. Zhang**
Proc. of 35th International Cosmic Ray Conference — ICRC2017 10–20 July, 2017 **Bexco, Busan, Korea**
https://pos.sissa.it/301/136/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

Flare Footpoint Regions and a Surge Observed by the Hinode/EUV Imaging Spectrometer (EIS), RHESSI, and SDO/AIA
George A. Doschek**, Harry P. Warren, Brian R. Dennis, Jeffrey W. Reep, Amir Caspi**
2015
http://arxiv.org/pdf/1510.07088v1.pdf

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

A Study of Connections Between Solar Flares and Subsurface Flow Fields of Active Regions
Yu Gao**, Junwei Zhao, Hongqi Zhang**
Solar Physics, February 2014**, Volume 289, Issue 2, pp 493-502**

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

Apparent Solar Tornado - Like Prominences
Olga Panasenco**, Sara F. Martin, Marco Velli**
E-print, July 2013**, Solar Phys.**

A solar tornado triggered by flares?
N. K. Panesar**, D. E. Innes, S. K. Tiwari, B. C. Low**
E-print, Nov 2012; File**; A&A**

A SOLAR TORNADO OBSERVED BY AIA/SDO: ROTATIONAL FLOW AND EVOLUTION OF MAGNETIC HELICITY IN A PROMINENCE AND CAVITY
Xing Li**1, Huw Morgan1,2, Drew Leonard1, and Lauren Jeska**
2012 **ApJ 752 L22**

A huge solar tornado observed by Solar Dynamic Observatory
Xing Li**, Huw Morgan, Drew Leonard and Lauren Jeska**
UKSP nugget – 22, April 2012
http://www.uksolphys.org/?p=4457

25-26 September
Pathways of large-scale magnetic couplings between coronal events
C.J. Schrijver**, A.M. Title, A.R. Yeates and M.L. DeRosa**
E-print, May 2013, File; **ApJSS**

26 Sept – 05:11: M4.0 вспышка, пересвет **на STEREO-B, B=24*2/280=0,17**
14:46: M2.6 вспышка, пересвет **на STEREO-B, B=17*2/280=0,12**

26 Sept

Radio bursts observed during solar eruptive flares and their schematic summary
Review
Marian **Karlický**
2023
https://arxiv.org/pdf/2307.07144.pdf

Multiwavelength Signatures of Episodic Null Point Reconnection in a Quadrupolar Magnetic Configuration and the Cause of Failed Flux Rope Eruption
Prabir K. Mitra **(USO/PRL, India), Bhuwan Joshi (USO/PRL, India), Astrid M. Veronig (Univ. of Graz, Austria), Thomas Wiegelmann (MPIS, Germany)**
ApJ 2022
https://arxiv.org/pdf/2112.14412.pdf

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

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

Diagnosing the Source Region of a Solar Burst on 26 September 2011 by Microwave Type III Pairs
Baolin Tan**, Marian Karlicky, Hana Meszarosova, Larisa Kashapova, Jing Huang, Yan Yan, Eduard P. Kontar**
Solar Phys. 2016
http://arxiv.org/pdf/1606.05410v1.pdf

Numerical Simulation of Multiple CME-Driven Shocks in the Month of 2011 September†
Chin-Chun Wu**, Kan Liou, Angelos Vourlidas, Simon Plunkett, Murray Dryer, S. T. Wu, Dennis Socker, Brian E. Wood, Lynn Hutting, Russell A. Howar**
JGR 2016

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

Impulsive Energy Release and Non-thermal Emission in a Confined M4.0 Flare Triggered by Rapidly Evolving Magnetic Structures
Upendra Kushwaha**1, Bhuwan Joshi1, Kyung-Suk Cho2, Astrid Veronig3, Sanjiv Kumar Tiwari4, and S. K. Mathew**
2014 **ApJ 791 23**

26-27 Sep

Properties of Forbush Decreases with AMS-02 Daily Proton Flux Data
Siqi **Wang**1, Veronica Bindi1, Cristina Consolandi1, Claudio Corti1, Christopher Light1, Nikolay Nikonov1, and Andrew Kuhlman1
2023 ApJ 950 23

https://iopscience.iop.org/article/10.3847/1538-4357/acca1b/pdf

Analysis of Geoeffective Impulsive Events on the Sun During the First Half of Solar Cycle 24
Agnieszka **Gil**, Monika Berendt-Marchel, Renata Modzelewska, Agnieszka Siluszyk, Marek Siluszyk, Anna Wawrzaszek & Anna Wawrzynczak
Solar Physics volume 298, Article number: 26 (**2023**)
https://link.springer.com/content/pdf/10.1007/s11207-023-02119-4.pdf

27 September

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

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

28 Sept

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

Properties of Supersonic Evershed Downflows
Sara Esteban Pozuelo**, Luis R. Bellot Rubio, Jaime de la Cruz Rodriguez**
ApJ 2016
http://arxiv.org/pdf/1609.01106v1.pdf

Lateral downflows in sunspot penumbral filaments and their temporal evolution
S. Esteban Pozuelo**, L. R. Bellot Rubio, J. de la Cruz Rodriguez**
ApJ 2015
http://arxiv.org/pdf/1502.02981v1.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 Sept

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

Strong Blue Asymmetry in Hα Line as a Preflare Activity
Kyuhyoun Cho**, Jeongwoo Lee, Jongchul Chae, Haimin Wang, Kwangsu Ahn,**

Heesu Yang, Eun-kyung Lim, Ram Ajor Maurya
Solar Phys. 2016

Active Region Coronal Rain Event Observed by the Fast Imaging Solar Spectrograph on the NST
Kwangsu Ahn**, Jongchul Chae, Kyung-Suk Cho, Donguk Song, Heesu Yang, Philip R. Goode, Wenda Cao, Hyungmin Park, Jakyung Nah, Bi-Ho Jang, Young-Deuk Park**
Solar Physics, Volume 289, Issue 11, pp 4117-4136 2014

29 Sept – 2 Oct
STUDY OF THE RECURRING DIMMING REGION DETECTED AT AR 11305 USING THE CORONAL DIMMING TRACKER (CoDiT)
Larisza D. Krista**1,2 and Alysha Reinard**
2013 **ApJ 762 91,** File

30 Sep

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

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

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.**

A FAST PROPAGATING EXTREME-ULTRAVIOLET WAVE ASSOCIATED WITH A MINI-FILAMENT ERUPTION
Ruisheng Zheng**, Yunchun Jiang, Jiayan Yang, Yi Bi, Junchao Hong, Dan Yang, and Bo Yang**
2012 **ApJ 753, 112**

Oct 2011
Evolution of the Magnetic Helicity Flux during the Formation and Eruption of Flux Ropes
P. Romano**1, F. P. Zuccarello2,3,4, S. L. Guglielmino5, and F. Zuccarello**
2014 **ApJ 794 118** **NOAA** 11318

1 Oct, ~09:50 – Заметная центральная эрупция, M1 вспышка, корональная волна, Earth directed CME
On October 1st around 10:17 UT, widely-spaced sunspots 1302 and 1305 erupted in quick succession, revealing a long-distance entanglement which was not obvious before. SDO recorded the double blast:

Large-scale Coronal Dimming Foreshadowing a Solar Eruption on 2011 October 1
Chunming **Zhu**1, C. Richard DeVore2, Joel T. Dahlin2,3, Jiong Qiu1, Maria D. Kazachenko4,5, Vadim M. Uritsky2,6, and Jackson S. Vandervelde2,7
2024 ApJ 961 218
https://iopscience.iop.org/article/10.3847/1538-4357/ad1603/pdf

Coronal dimmings as indicators of early CME propagation direction
Shantanu **Jain**, Tatiana Podladchikova, Galina Chikunova, Karin Dissauer, Astrid M. Veronig
A&A **2023**
https://arxiv.org/pdf/2311.13942.pdf

Localised acceleration of energetic particles by a weak shock in the solar corona
David M. Long**, Hamish A. S. Reid, Gherardo Valori, Jennifer O'Kane**
ApJ 2021
https://arxiv.org/pdf/2108.05068.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

On the detection of coronal dimmings and the extraction of their characteristic properties
Karin Dissauer**, Astrid M. Veronig, Manuela Temmer, Tatiana Podladchikova, Kamalam Vanninathan**
ApJ 2018
https://arxiv.org/pdf/1802.03185.pdf

Regularized Biot-Savart Laws for Modeling Magnetic Flux Ropes
Viacheslav S. Titov**, Cooper Downs, Zoran Mikić, Tibor Török, Jon A. Linker, Ronald M. Caplan**
2017
https://arxiv.org/pdf/1712.06708.pdf

On flare-CME characteristics from Sun to Earth combining remote-sensing image data with in-situ measurements supported by modeling
M. Temmer**, J.K. Thalmann, K. Dissauer, A.M. Veronig, J. Tschernitz, J. Hinterreiter, L. Rodriguez**
Solar Phys. 2017
https://arxiv.org/pdf/1703.00694.pdf

FRiED: A NOVEL THREE-DIMENSIONAL MODEL OF CORONAL MASS EJECTIONS
A. Isavnin
2016 **ApJ 833 267**
http://sci-hub.cc/10.3847/1538-4357/833/2/267

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

2 Oct – 17:26: M1.3 вспышка, пересвет **на STEREO-A, A=21*2/312=0,13**

2 Oct, ~00:50 – Еще она заметная центральная эрупция, M3.9 вспышка, Earth directed CME
Вечером – новые эрупции, C-класс вспышки и CME из той же области.

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

Quantifying the Toroidal Flux of Pre-existing Flux Ropes of CMEs
C. Xing**, X. Cheng, Jiong Qiu, Qiang Hu, E. R. Priest, M. D. Ding**
ApJ 2020
https://arxiv.org/pdf/1912.10623.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

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

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

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

3 Oct
On the occurrence of type IV solar radio bursts in the solar cycle 24 and their association with coronal mass ejections
Anshu Kumari**, D. E. Morosan, E. K. J. Kilpua**
ApJ 2020
https://arxiv.org/pdf/2011.03509.pdf

3-17 Oct
Detection of Fast-Moving Waves Propagating Outward along Sunspots' Radial Direction in the Photosphere
Junwei Zhao**, Ruizhu Chen, Thomas Hartlep, Alexander G. Kosovichev**
ApJL 2015
http://arxiv.org/pdf/1507.04795v1.pdf

4 Oct –Several filament eruptions **were observed during the latter half of the day in the southern hemisphere (**SW, >14:30, 304 A**). An impressive full halo CME was observed in LASCO images following an eruption in a very active backsided northern hemisphere region. This region will rotate into view in 3-4 days.**

Reverse Current Model for Coronal Mass Ejection Cavity Formation
Magnus A. Haw**1, Pakorn Wongwaitayakornkul1, Hui Li2, and Paul M. Bellan1**

2018 **ApJL 862 L15**
http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/2041-8213/aad33c/meta

The Three-part Structure of a Filament-unrelated Solar Coronal Mass Ejection
H. Q. Song**1,2, X. Cheng3, Y. Chen1, J. Zhang4, B. Wang1, L. P. Li2, B. Li1, Q. Hu5, and G. Li5**
2017 **ApJ 848 21**

~5 Oct

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations
Richard A. **Harrison**, Jackie A. Davies, David Barnes, Christian Möstl
Space Weather **2023**
https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.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

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

Oscillations Above Sunspots and Faculae: Height Stratification and Relation to Coronal Fan Structure
N.I. Kobanov**, D.Y. Kolobov, A.A. Chelpanov**
201**4**
http://arxiv.org/pdf/1411.6258v1.pdf

5-7 Oct
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

6 Oct

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

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

6-7 Oct

Measurement of the polytropic index during solar coronal rain using a diagram of the electron density distribution as a function of the electron temperature

Z. M. Vashalomidze **(1), T. V. Zaqarashvili (1,2,3), V. D. Kukhianidze (1)**

Astrophysics, Vol. 62, No. 1, March, 2019

8-11 Oct

Detection of Fast-Moving Waves Propagating Outward along Sunspots' Radial Direction in the Photosphere

Junwei Zhao

HMI Science Nuggets #43 Sept 2015

http://hmi.stanford.edu/hminuggets/?p=1290

9-10 Oct

Development of active regions: flows, magnetic-field patterns and bordering effect

A. V. Getling**, R. Ishikawa, A. A. Buchnev**

Solar Phys. 2015

http://arxiv.org/pdf/1506.01848v1.pdf

10 Oct

Inter-Correlation Between Sunspot Oscillations and Their Internal Structures

Libo Fu**, Zizhan Zhu, Ding Yuan, Jiaoyang Wang, Song Feng, Sergey Anfinogentov**

Research in Astronomy and Astrophysics 2022

https://arxiv.org/pdf/2209.05982.pdf

Modeling of the sunspot-associated microwave emission using a new method of DEM inversion

C. E. Alissandrakis**, V. M. Bogod, T. I. Kaltman, S. Patsourakos, N. G. Peterova**

Solar Phys. 2018

https://arxiv.org/pdf/1812.05751.pdf

Modeling of Solar Atmosphere Parameters Above Sunspots Using RATAN-600 Microwave Observations

A. G. Stupishin**, T. I. Kaltman, V. M. Bogod, L. V. Yasnov**

Solar Physics January 2018**, 293:13**

https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1228-7.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

Середина октября 2011 – областей много, а вспышек нет.

11 Oct

The Quantitative Relation of the Time Profiles of Intensities in the Well-connected Solar Energetic Particle Events

Yang Wang**1, Dan Lyu1, Xinghui Wu1, and Gang Qin1**

2022 **ApJ 940 67**

https://iopscience.iop.org/article/10.3847/1538-4357/ac99da/pdf

Temperature and Density Structure of a Recurring Active Region Jet
Sargam M. Mulay**, Giulio Del Zanna, Helen Mason**
A&A 2016
http://arxiv.org/pdf/1609.08472v1.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

11-13 Oct
Direct evidence: twisted flux tube emergence creates solar active regions
David MacTaggart**, Chris Prior, Breno Raphaldini, Paolo Romano, Salvatore Guglielmino**
2021
https://arxiv.org/ftp/arxiv/papers/2106/2106.11638.pdf

12 Oct
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

13 Oct
Association between tornadoes and hosting prominence instability
Irakli Mghebrishvili**, Teimuraz V. Zaqarashvili, Vasil Kukhianidze, David Kuridze, David Tsiklauri, Bidzina M. Shergelashvili, Stefaan Poedts**
ApJ 2018
https://arxiv.org/pdf/1807.01345.pdf

14 Oct
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

15 Oct
A swirling flare-related EUV jet
Q. M. Zhang **and H. S. Ji**
E-print, Dec 2013**, A&A**

17 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

18 Oct
Two-step solar filament eruptions
Boris Filippov
MNRAS 2017

https://arxiv.org/pdf/1712.08173.pdf

A Quiet Sun Transition Region Energetically Isolated Jet: Evidence to Cool Plasma Injections Into The Hot Corona
N. Brice Orange**, David L. Chesny, Hakeem M. Oluseyi**
2015
http://arxiv.org/pdf/1501.05211v1.pdf

19 Oct залимбовый пересвет 06:16 ←16s 8s→A=80/312=0.26
8s→ 06:21 A=42*2/312=0.27

19-24 Oct
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 Oct – 03:21: M1.6 вспышка, пересвет **на STEREO-A, A=31*2/312=0,2**
Потусторонняя вспышка: N18W101 Carr. Long 99 Внесена в Table_2

20 Oct, ~04 **– эрупция из NW залимбовой области; CME, на STEREO-A корональная волна**

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

The Solar X-Ray Limb
Marina Battaglia**1, Hugh S. Hudson2,3, Gordon J. Hurford3, Säm Krucker1,3, and Richard A. Schwartz4**
2017 **ApJ 843 123**
http://sci-hub.cc/10.3847/1538-4357/aa76da

The Solar X-ray Limb III
Marina Battaglia **and Hugh Hudson**
RHESSI Science Nugget No. 302 June 2017
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/The_Solar_X-ray_Limb_III

The Solar X-ray Limb
Marina Battaglia**, Hugh S. Hudson, Gordon J. Hurford, Säm Krucker, Richard A. Schwartz**
ApJ 2017
https://arxiv.org/pdf/1705.11044.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

20-22 Oct

Long-period oscillations of active region patterns: least-squares mapping on second-order curves
G. Dumbadze**, B.M. Shergelashvili, V. Kukhianidze, G. Ramishvili, T.V. Zaqarashvili, M. Khodachenko, E. Gurgenashvili, S. Poedts, P. De Causmaecker**
A&A 2016
https://arxiv.org/pdf/1610.01509v1.pdf

21 Oct – 13:06: M1.3 вспышка, пересвет **на STEREO-A, A=15*2/312=0,1**

21 Oct, ~08 **– эрупция большого северного волокна, потемнение на 304 A, CME?, см. STEREO-A**

Chromospheric Rapid Blueshifted Excursions Observed with IBIS and Their Association with Photospheric Magnetic Field Evolution
Na Deng**, Xin Chen, Chang Liu, Ju Jing, Alexandra Tritschler, Kevin P. Reardon, Derek A. Lamb, Craig E. Deforest, Carsten Denker, Shuo Wang, Rui Liu, Haimin Wang**
ApJ, 2015
http://arxiv.org/pdf/1412.4038v1.pdf

Observations of Low Frequency Solar Radio Bursts from the Rosse Solar-Terrestrial Observatory
P. Zucca**, E. P. Carley, J. McCauley, P. T. Gallagher, C. Monstein, R. T. J. McAteer**
E-print, 4 April 2012**, Solar Phys.**

21-22 Oct
INTERRUPTED ERUPTION OF LARGE QUIESCENT FILAMENT ASSOCIATED WITH A HALO CME
S. Gosain**1, Boris Filippov2, Ram Ajor Maurya3,4, and Ramesh Chandra**
2016 **ApJ 821 85 DOI: 10.3847/0004-637X/821/2/85**

22 Oct – 12:16: M1.3 пересвет **A=15*2/312=0,1 ←16s 8s→ A=15/312=0.048**
Рекордная задержка по времени 66 мин на очень длинном LDE

22 Oct, ~00 **– снова эрупция (продолжение) большого северного волокна, halo CME**
~11 **– M1.3** очень LDE вспышка **из NW прилимбовой области; CME, на STEREO-A корональная волна**

Circular-ribbon flares and the related activities **Review**
Qingmin **Zhang**
Reviews of Modern Plasma Physics **2024**
https://arxiv.org/pdf/2401.16101.pdf

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

Current-sheet Oscillations Caused by Kelvin-Helmholtz Instability at the Loop Top of Solar Flares
Yulei Wang, Xin Cheng, Zining Ren, Mingde Ding
ApJL 2022
https://arxiv.org/pdf/2205.10361.pdf

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

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

Investigation on the Spatiotemporal Structures of Supra-Arcade Spikes
Rui Liu**, Yuming Wang**
A&A 2021
https://arxiv.org/pdf/2106.04752.pdf

Thermodynamical Evolution of Supra-Arcade Downflows
Jianchao Xue**, Yang Su, Hui Li, Xiaozhou Zhao**
ApJ 2020
https://arxiv.org/pdf/2007.11205.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

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

Flux rope, hyperbolic flux tube, and late EUV phases in a non-eruptive circular-ribbon flare
S. Masson**, E. Pariat, G. Valori, N. Deng, C. Liu, H. Wang, H. Reid**
A&A 2017
https://arxiv.org/pdf/1704.01450.pdf

Fine structure and long duration of a flare coronal X-ray source with RHESSI and SDO/AIA data
Sylwester Kolomanski **(1), Tomasz Mrozek (1 and 2), Ewa Chmielewska (1)**
A&A 2017
https://arxiv.org/pdf/1701.09127v1.pdf

An exploration of heating mechanisms in a supra-arcade plasma sheet formed after a coronal mass ejection
Katharine K. Reeves**, Michael S. Freed, David E. McKenzie, Sabrina L. Savage**
ApJ 2017
https://arxiv.org/pdf/1701.03497v1.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

INFERRING THE MAGNETOHYDRODYNAMIC STRUCTURE OF SOLAR FLARE SUPRA-ARCADE PLASMAS FROM A DATA-ASSIMILATED FIELD TRANSPORT MODEL
Roger B. Scott**, David E. McKenzie, and Dana W. Longcope**
2016 **ApJ 819 56**

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

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

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

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**

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-Cadence and High-Resolution Halpha Imaging Spectroscopy of a Circular Flare's Remote Ribbon with IBIS
Na Deng**, Alexandra Tritschler, Ju Jing, Xin Chen, Chang Liu, Kevin Reardon, Carsten Denker, Yan Xu, and Haimin Wang**
E-print, April 2013**; ApJ**

RE-INTERPRETATION OF SUPRA-ARCADE DOWNFLOWS IN SOLAR FLARES
Sabrina L. Savage**1, David E. McKenzie2 and Katharine K. Reeves**
2012 **ApJ 747 L40**

22-25 Oct

On the Radial and Longitudinal Variation of a Magnetic Cloud: ACE, Wind, ARTEMIS and Juno Observations
Emma E. Davies**, Robert J. Forsyth, Simon W. Good & Emilia K. J. Kilpua**
Solar Physics volume 295, Article number: 157 (2020**)**
https://link.springer.com/content/pdf/10.1007/s11207-020-01714-z.pdf

Multispacecraft Observation of Unidirectional and Bidirectional Alfvén Waves within Large-scale Magnetic Clouds
Zehao Wang**1,2, Xueshang Feng1, and Jianchuan Zheng**
2019 **ApJL 887 L18**

sci-hub.se/10.3847/2041-8213/ab595d

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

24-25 Oct – приличная геобуря (Dst~142 nT) и сильный Форбуш, видимо от эрупции большого северного волокна, начавшейся 21-ого и продолжавшейся 22-ого

Investigation on the Spatiotemporal Structures of Supra-Arcade Spikes
Rui Liu**, Yuming Wang**
A&A 2021
https://arxiv.org/pdf/2106.04752.pdf

On the Radial and Longitudinal Variation of a Magnetic Cloud: ACE, Wind, ARTEMIS and Juno Observations
Emma E. Davies**, Robert J. Forsyth, Simon W. Good & Emilia K. J. Kilpua**
Solar Physics volume 295, Article number: 157 (2020**)**
https://link.springer.com/content/pdf/10.1007/s11207-020-01714-z.pdf

Structures of Interplanetary Magnetic Flux Ropes and Comparison with Their Solar Sources
Qiang Hu**, Jiong Qiu, B. Dasgupta, A. Khare, and G. M. Webb**
ApJ, 2014; File
https://dl.dropboxusercontent.com/u/96898685/ms_fr_v4.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

25 Oct
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/

Polarimetric Reconstruction of Coronal Mass Ejections from LASCO-C2 Observations
O. Floyd**, P. Lamy**
Solar Physics November 2019**, 294:168**
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1553-0.pdf

26 Oct, >08:30 **– NW, эрупция CME**

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations
Richard A. **Harrison**, Jackie A. Davies, David Barnes, Christian Möstl
Space Weather **2023**
https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf

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

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

27 Oct залимбовый пересвет 08:16 ←16s 8s→ B=43/277=0.16 <0.2 не берём

27 Oct

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

Difference of source regions between fast and slow coronal mass ejections
B. Filippov
PASAustralia 2019
https://arxiv.org/pdf/1904.04060.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

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 measurement of the apparent phase speed of the propagating EUV disturbances
D. Yuan**1 and V. M. Nakariakov1,2**
E-print, Apr 2012**, A&A**

27-28 Oct
A Study of Acoustic Halos in Active Region NOAA 11330 using Multi-Height SDO Observations
S. C. Tripathy**, K. Jain, S. Kholikov, F. Hill, S. P. Rajaguru, P. S. Cally**
(Submitted on 3 Nov 2017
https://arxiv.org/pdf/1711.01259.pdf

28 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

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

29 Oct

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations
Richard A. **Harrison**, Jackie A. Davies, David Barnes, Christian Möstl
Space Weather **2023**
https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf

Properties of the Sheath Regions of Coronal Mass Ejections with or without Shocks from STEREO in situ Observations near 1 AU
T. M. Salman**, N. Lugaz, C. J. Farrugia, R. M. Winslow, L. K. Jian, A. B. Galvin**
ApJ 2020
https://arxiv.org/pdf/2011.06632.pdf

31 Oct залимбовый пересвет 18:16 ←16s 8s→ B=38/277=0.14 <0.2 не берём

31 Oct

Formation and Thermodynamic Evolution of plasmoids in active region jets
Sargam M. Mulay**, Durgesh Tripathi, Helen Mason, Giulio Del Zanna, Vasilis Archontis**
MNRAS 2022
https://arxiv.org/ftp/arxiv/papers/2211/2211.01740.pdf

November 2011
Radial Evolution of a Magnetic Cloud: MESSENGER, STEREO, and Venus Express Observations
S. W. Good**1, R. J. Forsyth1, J. M. Raines2, D. J. Gershman3, J. A. Slavin2, and T. H. Zurbuchen**
2015 **ApJ 807 177**

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

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations
Richard A. **Harrison**, Jackie A. Davies, David Barnes, Christian Möstl
Space Weather **2023**
https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf

1-2 Nov
Geomagnetic storm forecasting service StormFocus: 5 years online
Tatiana Podladchikova**, Anatoly Petrukovich and Yuri Yermolaev**
J. Space Weather Space Clim. 2018**, 8, A22**
https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170027.pdf

2 Nov – 22:16: M4.3 пересвет **B=26*2/277=0,19 ←16s 8s→ 22:06 B=29*2/277=0.209**

2 Nov
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/

3 Nov – 11:16: M2.5 вспышка, пересвет **на STEREO-B, B=23*2/277= 0.17**
12:16: вспышки нет**,** пересвет **на STEREO-B, B=38*2/277=0,27 время другое**
20:26: X1.9 вспышка, пересвет **на STEREO-B, B=74*2/277=0,53**
22:41: E backside **вспышка,** пересвет **на STEREO-B, B=13*2/277=0,094 Nitta**
23:36: M2.1 вспышка, пересвет **на STEREO-B, B=18*2/277=0,13**

3 Nov

The Crucial Role of Perpendicular Diffusion in the Longitude Distribution of >10 MeV Solar Energetic Protons
Yang **Wang**1,2 and Gang Qin1,2
2023 ApJ 954 81
https://iopscience.iop.org/article/10.3847/1538-4357/ace35b/pdf **File**

A data-driven physics-based transport model of solar energetic particles accelerated by coronal mass ejection shocks propagating through the solar coronal and heliospheric magnetic fields
Ming **Zhang**, Lei Cheng, Ju Zhang, Pete Riley, Ryun Young Kwon, David Lario, Laura Balmaceda, Nikolai Pogorelov
2023 *ApJS* **266** 35
https://arxiv.org/pdf/2212.07259.pdf
https://iopscience.iop.org/article/10.3847/1538-4365/accb8e/pdf

The Quantitative Relation of the Time Profiles of Intensities in the Well-connected Solar Energetic Particle Events
Yang Wang**1, Dan Lyu1, Xinghui Wu1, and Gang Qin1**
2022 **ApJ 940 67**
https://iopscience.iop.org/article/10.3847/1538-4357/ac99da/pdf

A Simple Technique for Identifying the Propagation Direction of CMEs in 3D Space
Y. I. Egorov **& V. G. Fainshtein**
Solar Physics volume 296, Article number: 161 (2021**)**
https://link.springer.com/content/pdf/10.1007/s11207-021-01904-3.pdf
https://doi.org/10.1007/s11207-021-01904-3

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

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

Forward Modeling of the Type III Radio Burst Exciter
Peijin Zhang**, Chuanbing Wang, Lin Ye, Yuming Wang**
Solar Physics May 2019**, 294:62**
sci-hub.se/10.1007/s11207-019-1448-0

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

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

Effects of Coronal Magnetic Field Structures on the Transport of Solar Energetic Particles
Lulu Zhao **and Ming Zhang**
2018 **ApJL 859 L29 DOI 10.3847/2041-8213/aac6cf**

On the Link between the Release of Solar Energetic Particles Measured at Widespread Heliolongitudes and the Properties of the Associated Coronal Shocks
D. Lario**1, R.-Y. Kwon1,2, P. Riley3, and N. E. Raouafi1**
2017 **ApJ 847 103**
http://sci-hub.cc/http://iopscience.iop.org/0004-637X/847/2/103/

Comparison of the CME-shock Acceleration of Three Widespread SEP Events during Solar Cycle 24†
H. Xie**, P. Mäkelä, O. C. St. Cyr, N. Gopalswamy**
JGR 2017 **DOI: 10.1002/2017JA024218**
http://onlinelibrary.wiley.com/doi/10.1002/2017JA024218/pdf

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

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

EUV Irradiance Observations from SDO/EVE as a Diagnostic of Solar Flares
Ryan O. Milligan
Conference proceedings for the symposium on "Solar and Stellar Flares and their Effects on the Planets" at the IAU General Assembly in Honolulu, HI, August 2015
http://arxiv.org/pdf/1604.07793v1.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

Circumsolar Energetic Particle Distribution on 2011 November 3
R. Gómez-Herrero**1,2, N. Dresing3, A. Klassen3, B. Heber3, D. Lario4, N. Agueda5, O. E. Malandraki6, J.J. Blanco1,2, J. Rodríguez-Pacheco1,2, and S. Banjac**
2015 **ApJ 799 55**

An Unorthodox X-Class Long-Duration Confined Flare
Rui Liu**, Viacheslav S. Titov, Tingyu Gou, Yuming Wang, Kai Liu, Haimin Wang**
E-print, May 2014, File**; ApJ**
http://arxiv.org/pdf/1405.6774v1.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

> 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

An Investigation of the CME of 3 November 2011 and Its Associated Widespread Solar Energetic Particle Event
A. J. Prise**, L. K. Harra, S. A. Matthews, D. M. Long, A. D. Aylward**
Solar Physics, May 2014**, Volume 289, Issue 5, pp 1731-1744**

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**
E-print, May 2013, File; **Solar Physics, November** 2013**, Volume 288, Issue 1, pp 241-254**

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

Overlying Extreme-ultraviolet Arcades Preventing Eruption of a Filament Observed by AIA/SDO
Huadong Chen**1,2, Suli Ma1, and Jun Zhang**
2013 **ApJ 778 70**

Simultaneous EUV and radio observations of bidirectional plasmoids ejection during magnetic reconnection⋆
Pankaj Kumar **and Kyung-Suk Cho**
A&A 557, A115 (2013**)**

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

3-4 Nov
Solar Energetic Particle Access to Distant Longitudes via Turbulent Field-Line Meandering
T. Laitinen **(1), A. Kopp (2), F. Effenberger (3,4), S. Dalla (1), M.S. Marsh**
ApJL 2015

3-11 Nov
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

4 Nov – 20:56: M1.0 вспышка, пересвет **на STEREO-B, B=20*2/277=0.14**

4 Nov

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

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

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**.**

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

5 Nov – 04:16: M3.7 пересвет **B=31*2/277=0.22 ←16s 8s→B=31/277=0.112**
11:26: M1.1 вспышка, пересвет **на STEREO-B, B=12*2/277=0.09 верхний предел**
20:36: M1.8 вспышка, пересвет **на STEREO-B, B=14*2/277=0,1**

5 Nov

The physics of solar spectral imaging observations in dm-cm wavelengths and the application on space weather
Review
Baolin **Tan**, Yihua Yan, Jing Huang, Yin Zhang, Chengming Tan, Xiaoshuai Zhu
Advance in Space Research, **2023**
https://arxiv.org/ftp/arxiv/papers/2311/2311.14360.pdf

Radio astronomical tools for the study of solar energetic particles I. Correlations and diagnostics of impulsive acceleration and particle propagation Review
Karl-Ludwig Klein
Front. Astron. Space Sci. **Volume 7, id.105** 2020
https://doi.org/10.3389/fspas.2020.580436
https://www.frontiersin.org/articles/10.3389/fspas.2020.580436/full 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

SMART/SDDI Filament Disappearance Catalogue **(2016–2019)**
Daikichi Seki**, Kenichi Otsuji, Takako T. Ishii, Kumi Hirose, Tomoya Iju, Satoru UeNo, Denis P. Cabezas, Ayumi Asai, Hiroaki Isobe, Kiyoshi Ichimoto, Kazunari Shibata**
Sun and Geosphere 2020
https://arxiv.org/ftp/arxiv/papers/2003/2003.03454.pdf

Passages of Electron Beams
Bin Chen **and Tim Bastian**
RHESSI Science Nugget, No. 193, Feb 2013
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Passages_of_Electron_Beams

Tracing Electron Beams in the Sun's Corona with Radio Dynamic Imaging Spectroscopy
Bin Chen**, Timothy S. Bastian, Stephen M. White, Dale E. Gary, Richard A. Perley, Michael P. Rupen, Brent R. Carlson**
E-print, Dec 2012**; ApJL**

5-6 Nov
Correlation of ICME Magnetic Fields at Radially Aligned Spacecraft
S. W. Good**, R. J. Forsyth, J. P. Eastwood, C. Möstl**
Solar Physics March 2018**, 293:52**
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1264-y.pdf

5-13 Nov
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

6 Nov – 06:41: M1.4 вспышка, пересвет **на STEREO-B, B=16*2/277=0,12**

6 Nov

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

Relationships Between Sequential Chromospheric Brightening and the Corona Review
Michael S. Kirk**, K. S. Balasubramaniam, Jason Jackiewicz, Holly R. Gilbert**
Proceedings IAU Symposium No. xxx, 2017
https://arxiv.org/pdf/1704.03835.pdf

The Origin of Sequential Chromospheric Brightenings
Michael S. Kirk**, K.S. Balasubramaniam, Jason Jackiewicz, Holly R. Gilbert**
Solar Phys. 2017
https://arxiv.org/pdf/1704.03828.pdf

7 Nov
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

8 Nov

The Magnetic Properties of Heating Events on High-Temperature Active Region Loops
Ignacio Ugarte-Urra**, Nicholas A. Crump, Harry P. Warren, Thomas Wiegelmann**
ApJ 2019
https://arxiv.org/pdf/1904.11976.pdf

Helical Twisting Number and Braiding Linkage Number of Solar Coronal Loops
Markus J. Aschwanden
2019
https://arxiv.org/pdf/1902.10612.pdf

Chromospheric Magnetic Field Measurements in a Flare and an Active Region Filament
J. W. Harvey
Solar Physics, Volume 280, Number 1 (2012**), 69-81**

8-23 Nov
Eruption of prominence triggered by coronal rain in the solar atmosphere observed by SDO/AIA and Stereo/EUVI
Z. M. Vashalomidze **(1), T. V. Zaqarashvili (1,2 and 3), V. D. Kukhianidze (1), G. T. Ramishvili (1)**
Astrophysics, Vol. 62, No. 4, December, 2019
DOI 10.1007/s10511-019-09602-6
https://arxiv.org/ftp/arxiv/papers/2110/2110.01309.pdf

9 Nov – 14:16: M1.1 пересвет **B=20*2/276=0,14 ←16s 8s→B=20/276=0.072 LDE**

9 Nov 2011 – **несколько** волоконных **эрупций, CMEs**
~13:30 огромная эрупция на STEREO-B

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

Extreme solar events Review
Edward W. Cliver**, Carolus J. Schrijver, Kazunari Shibata & Ilya G. Usoskin**
Living Reviews in Solar Physics volume 19, Article number: 2 (2022**)**
https://link.springer.com/content/pdf/10.1007/s41116-022-00033-8.pdf

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

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

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

Statistical Properties of Ribbon Evolution and Reconnection Electric Fields in Eruptive and Confined Flares
Jürgen Hinterreiter**, Astrid M. Veronig, Julia K. Thalmann, Johannes Tschernitz, Werner Pötzi**
Solar Phys. 2018
https://arxiv.org/pdf/1801.03370.pdf

Reconnection fluxes in eruptive and confined flares and implications for superflares on the Sun
Johannes Tschernitz**, Astrid M. Veronig, Julia K. Thalmann, Jürgen Hinterreiter, Werner Pötzi**
ApJ 2017
https://arxiv.org/pdf/1712.04701.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

Automatic analysis of double coronal mass ejections from coronagraph images
Matthew Jacobs**, Lin-Ching Chang, Antti Pulkkinen,**
Space Weather Volume 13, Issue 11 November 2015 **Pages 761–777**

Comparing nonlinear force-free and potential field modeling using full-disk HMI data
Tilaye Tadesse**1, T. Wiegelmann2, P.J. MacNeice1, B. Inhester2, K. Olson3, and A. A. Pevtsov**
HMI Science Nuggets, #33, Jan 2015
http://hmi.stanford.edu/hminuggets/?p=1058

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

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

Pathways of large-scale magnetic couplings between coronal events
C.J. Schrijver**, A.M. Title, A.R. Yeates and M.L. DeRosa**
E-print, May 2013, File; **ApJSS**

Inclusion of Real-Time In-Situ Measurements into the UCSD Time-Dependent Tomography and Its Use as a Forecast Algorithm
B. V. Jackson**, J. M. Clover, P. P. Hick, A. Buffington, M. M. Bisi and M. Tokumaru**
Solar Physics, July 2013**, Volume 285, Issue 1-2, pp 151-165**

10 Nov
The First Flight of the Marshall Grazing Incidence X-ray Spectrometer (MaGIXS)
Sabrina L. Savage**, Amy R. Winebarger, Ken Kobayashi, +++**
ApJ 2022
https://arxiv.org/pdf/2212.00665.pdf

11 Nov

Recurrent narrow quasi-periodic fast-propagating wave trains excited by the intermittent energy release in the accompanying solar flare
Xinping Zhou**, Yuandeng Shen, Hongfei Liang, Zhining Qu, Yadan Duan, Zehao Tang, Chengrui Zhou, Song Tan**
ApJ 2022
https://arxiv.org/pdf/2211.14488.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

Solar Magnetic Flux Rope Eruption Simulated by a Data-Driven Magnetohydrodynamic Model
Yang Guo**, Chun Xia, Rony Keppens, M. D. Ding, P. F. Chen**
ApJL 2018
https://arxiv.org/pdf/1812.10030.pdf

Observations of a Fast-mode Magnetosonic Wave Propagating along a Curving Coronal Loop on 2011 November 11
Z. N. Qu**1,2, L. Q. Jiang1, and S. L. Chen**
2017 **ApJ 851 41**
http://iopscience.iop.org/article/10.3847/1538-4357/aa9beb/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

12 Nov
Forbush

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

VARIATIONS OF THE MUON FLUX AT SEA LEVEL ASSOCIATED WITH INTERPLANETARY ICMEs AND COROTATING INTERACTION REGIONS
C. R. A. Augusto**1, V. Kopenkin1, C. E. Navia1, K. H. Tsui1, H. Shigueoka1, A. C. Fauth2, E. Kemp2, E. J. T. Manganote2, M. A. Leigui de Oliveira3, P. Miranda4, R. Ticona4, and A. Velarde**
2012 **ApJ 759 143**

13-14 Nov
SOLAR MAGNETIZED "TORNADOES:" RELATION TO FILAMENTS
Yang Su1, Tongjiang Wang2,3, Astrid Veronig1, Manuela Temmer1, and Weiqun Gan
2012 ApJ 756 L41

15 Nov – 09:26: M1.2 вспышка, пересвет **на STEREO-A, A=16*2/312=0,1**
12:46: M1.9 вспышка, пересвет **на STEREO-B, B=24*2/277=0,17**
22:36: M1.1 вспышка, пересвет **на STEREO-A, A=26*2/312=0,17**

15 Nov

Circular-ribbon flares and the related activities **Review**
Qingmin **Zhang**
Reviews of Modern Plasma Physics **2024**
https://arxiv.org/pdf/2401.16101.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**

A Survey of Changes in Magnetic Helicity Flux on the Photosphere During Relatively Low Class Flares
Yi Bi**, Ying D Liu, Yanxiao Liu, Jiayan Yang, Zhe Xu, Kaifan JI**
ApJ 2018
https://arxiv.org/pdf/1808.04591.pdf

A giant quiescent solar filament observed with high-resolution spectroscopy
C. Kuckein**, M. Verma, C. Denker**
Astronomy & Astrophysics 2016
http://arxiv.org/pdf/1603.02505v1.pdf

On the Nature of the EUV Late Phase of Solar Flares
Y. Li**, M. D. Ding, Y. Guo, Y. Dai**
E-print, July 2014; ApJ, 2014
http://arxiv.org/pdf/1407.6041v1.pdf

Hot Spine Loops and the Nature of a Late-Phase Solar Flare
Xudong Sun**, J. Todd Hoeksema, Yang Liu, Guillaume Aulanier, Yingna Su, Iain G. Hannah, Rachel A. Hock**
E-print, Oct 2013**; ApJ**
http://arxiv.org/pdf/1310.1438v1.pdf

16 Nov
Counter-streaming flows in a giant quiet-Sun filament observed in the extreme ultraviolet
A. Diercke**, C. Kuckein, M. Verma, C. Denker**
A&A 2018
https://arxiv.org/pdf/1801.01036.pdf

17 Nov
Solar Type II Radio Bursts Recorded by the Compound Astronomical Low-Frequency Low-Cost Instrument for Spectroscopy in Transportable Observatories in Brazil
R. D. Cunha-Silva**, F. C. R. Fernandes, C. L. Selhorst**
Solar Phys. 2014

19 Nov

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

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

20-22 Nov

Eruption of prominence triggered by coronal rain in the solar atmosphere observed by SDO/AIA and Stereo/EUVI
Z. M. Vashalomidze **(1), T. V. Zaqarashvili (1,2 and 3), V. D. Kukhianidze (1), G. T. Ramishvili (1)**
Astrophysics, Vol. 62, No. 4, December, 2019
DOI 10.1007/s10511-019-09602-6
https://arxiv.org/ftp/arxiv/papers/2110/2110.01309.pdf

21 Nov
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

22 Nov – 04:06: C4.9 вспышка, пересвет **на STEREO-B, B=5*2/277=0.036**
09:56: C3.2 вспышка, пересвет **на STEREO-B, B=4*2/277=0.029**

22 Nov 2011 – **несколько** волоконных **эрупций, CMEs**

Detection of Coronal Mass Ejections Using Unsupervised Deep Clustering
Rasha Alshehhi **& Prashanth R. Marpu**
Solar Physics volume 296, Article number: 104 (2021**)**
https://link.springer.com/content/pdf/10.1007/s11207-021-01854-w.pdf
https://doi.org/10.1007/s11207-021-01854-w

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

Pathways of large-scale magnetic couplings between coronal events
C.J. Schrijver**, A.M. Title, A.R. Yeates and M.L. DeRosa**
E-print, May 2013, File; **ApJSS**

26 Nov 2011 -**A** large filament eruption **across the solar equator near the western limb was observed beginning at 05:58 UTC on Nov.26 and apparantly triggered a C1 flare;** небольшие мягкие протоны**; значительный CME.**

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

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

23 Nov

Characterizing ICME-related Forbush Decreases at Mercury using MESSENGER Observations: Identification of a One or Two-Step Structure
Emma E. Davies **(1), Réka M. Winslow (1), David J. Lawrence (2)**
ApJ 2022
https://arxiv.org/pdf/2212.02707.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

24 Nov

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

26 Nov

DH Type II Radio Bursts During Solar Cycles 23 and 24: Frequency-dependent Classification and their Flare-CME Associations
Binal D. Patel **(USO/PRL), Bhuwan Joshi (USO/PRL), Kyung-Suk Cho (SSD/KASI), Rok-Soon Kim (DASS/UST)**
Solar Phys. 2021
https://arxiv.org/pdf/2108.12990.pdf

The Disappearing Solar Filament of 2013 September 29 and Its Large Associated Proton Event: Implications for Particle Acceleration at the Sun
E. W. Cliver**1, S. W. Kahler2, M. Kazachenko1,3,4, and M. Shimojo5,6**
2019 **ApJ 877 11**
sci-hub.se/10.3847/1538-4357/ab0e03
https://iopscience.iop.org/article/10.3847/1538-4357/ab0e03/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

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

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

Filament Eruptions Outside of Active Regions as Sources of Large Solar Energetic Particle Events
Kahler, S. ; Gopalswamy, N. ; Makela, P. ; Akiyama, S. ; Yashiro, S. ; Xie, H. ; Thakur, N.

Proceedings of the 34th International Cosmic Ray Conference (ICRC2015). 30 July - 6 August, 2015. The Hague, The Netherlands. Online at http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=236, id.48 **2015**
https://pos.sissa.it/236/048/pdf

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

27 (28?) Nov 2011 **A filament eruption near the center of the visible disk was observed beginning at 11:12 UTC. A small CME was observed soon afterwards in STEREO-A images.**

28 Nov

Dependence of Energetic Storm Particle Heavy Ion Peak Intensities and Spectra on Source CME Longitude and Speed
A. Santa Fe Dueñas**1,2, R. W. Ebert1,2, M. A. Dayeh1,2, M. I. Desai1,2, L. K. Jian3, G. Li4, and C. W. Smith5**
2022 **ApJ 935 32**
https://iopscience.iop.org/article/10.3847/1538-4357/ac73f5/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

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 Nov

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations
Richard A. **Harrison**, Jackie A. Davies, David Barnes, Christian Möstl
Space Weather **2023**
https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf

Stereoscopic Observation of Simultaneous Longitudinal and Transverse Oscillations in a Single Filament Driven by Two-sided-loop Jet
Song **Tan**, Yuandeng Shen, Xinping Zhou, Zehao Tang, Chengrui Zhou, Yadan Duan, Surui Yao
MNRAS **2023**
https://arxiv.org/pdf/2301.07989.pdf

Stereoscopic diagnosing of a filament-cavity flux rope system by tracing the path of a two-sided-loop jet
Song Tan, Yuandeng Shen, Xinping Zhou, Yadan Duan, Zehao Tang, Chengrui Zhou, Surui Yao
MNRAS Letters 2022
https://arxiv.org/pdf/2206.13827.pdf

30 Nov

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

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

Pathways of large-scale magnetic couplings between coronal events
C.J. Schrijver**, A.M. Title, A.R. Yeates and M.L. DeRosa**
E-print, May 2013, File; **ApJSS**

1 Dec
CMEs in the Heliosphere: I. A Statistical Analysis of the Observational Properties of CMEs Detected in the Heliosphere from 2007 to 2017 by STEREO/HI-1
R. A. Harrison**, J. A. Davies, D. Barnes, J. P. Byrne, C. H. Perry, V. Bothmer, J. P. Eastwood, P. T. Gallagher, E. K. J. Kilpua, C. Möstl, L. Rodriguez, A. P. Rouillard, D. Odstrcil**
Solar Phys. 2018
https://arxiv.org/ftp/arxiv/papers/1804/1804.02320.pdf

1-10 Dec
A Helioseismic Survey of Near-surface Flows Around Active Regions and their Association with Flares
D. C. Braun
ApJ 2015
http://arxiv.org/pdf/1602.00038v1.pdf

2 Dec
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

3 Dec
PARTIAL SLINGSHOT RECONNECTION BETWEEN TWO FILAMENTS
Yunchun Jiang1, Junchao Hong1,2, Jiayan Yang1, Yi Bi1, Ruisheng Zheng1, Bo Yang1,2, Haidong
Yunchun Jiang**1, Junchao Hong1,2, Jiayan Yang1, Yi Bi1, Ruisheng Zheng1, Bo Yang1,2, Haidong Li1, and Dan Yang**
2013 **ApJ 764 68**

4 Dec – 16:16: C4.8 вспышка, пересвет **на STEREO-A, A=9*2/312=0,06**

4 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

5 Dec
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

7 Dec
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**

8 Dec
Polarimetric Reconstruction of Coronal Mass Ejections from LASCO-C2 Observations
O. Floyd**, P. Lamy**
Solar Physics November 2019**, 294:168**
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1553-0.pdf

9 Dec
S. J. Schonfeld**1, S. M. White2, C. J. Henney2, C. N. Arge2, and R. T. J. McAteer**
2015 **ApJ 808 29**
http://arxiv.org/pdf/1508.00599v1.pdf

10 Dec

The temporal and spatial evolution of MHD wave modes in sunspots
A. B. **Albidah**, V. Fedun, A. A. Aldhafeeri, I. Ballai, D. B. Jess, W. Brevis, J. Higham, M. Stangalini, S. S. A. Silva, C. D. MacBride, G. Verth
ApJ **2023**
https://arxiv.org/pdf/2305.19418.pdf

Magnetohydrodynamic wave mode identification in circular and elliptical sunspot umbrae: evidence for high order modes
A. B. Albidah**, V. Fedun, A. A. Aldhafeeri, I. Ballai, W. Brevis, D. B. Jess, J. Higham, M. Stangalini, S. S. A. Silva, G. Verth**
ApJ 2022
https://arxiv.org/pdf/2202.00624.pdf

Proper Orthogonal and Dynamic Mode Decomposition of Sunspot Data
A. B. Albidah**, W. Brevis, V. Fedun, I. Ballai, D. B. Jess, M. Stangalini, J. Higham, G. Verth**
Philosophical Transactions of the Royal Society of London Series A, 379, 20200181, 2021
doi: 10.1098/rsta.2020.0181
https://arxiv.org/pdf/2010.08530.pdf

Statistical Signatures of Nanoflare Activity. I. Monte Carlo Simulations and Parameter Space Exploration
David B. Jess**, Chris J. Dillon, Michael S. Kirk, Fabio Reale, Mihalis Mathioudakis, Samuel D. T. Grant, Damian J. Christian, Peter H. Keys, S. Krishna Prasad, Scott J. Houston**
ApJ 2018
https://arxiv.org/pdf/1812.06978.pdf

Unravelling the components of a multi-thermal coronal loop using magnetohydrodynamic seismology

S. Krishna Prasad**, D. B. Jess, J. A. Klimchuk, D. Banerjee**
ApJ 2016
https://arxiv.org/pdf/1611.04011v1.pdf

Spatially Resolved Coronal Magnetic Fields Derived Using Seismology Techniques Applied to Omnipresent Sunspot Waves
D. B. Jess**1,2, V. E. Reznikova3, R. S. I. Ryans1, D. J. Christian2, P. H. Keys1,4, M. Mathioudakis1, D. H. Mackay5, S. Krishna Prasad1, D. Banerjee6, S. D. T. Grant1, S. Yau1 & C. Diamond**
HMI Science Nuggets #46 Nov 2015
http://hmi.stanford.edu/hminuggets/?p=1337

On the Source of Propagating Slow Magneto-acoustic Waves in Sunspots
S. Krishna Prasad**, D. B. Jess, Elena Khomenko**
ApJL 2015
http://arxiv.org/pdf/1510.03275v1.pdf

Nanoflare Activity in the Solar Chromosphere
D. B. Jess**, M. Mathioudakis, P. H. Keys**
ApJ, 2014
http://arxiv.org/pdf/1409.6726v1.pdf

Dynamic properties of bright points in an active region
Peter H. Keys**, Mihalis Mathioudakis, David B. Jess, Duncan H. Mackay, Francis P. Keenan**
A&A, 2014
http://arxiv.org/pdf/1405.3923v1.pdf

11 Dec

High-order Harmonics of a Kink Wave and a Narrow Quasiperiodic Fast-propagating Wave Train Excited Simultaneously in a Plasma Resonator
Zhining **Qu**1, Xinping Zhou1, Jie Zheng2, Linqiao Jiang3, Hongbo Li4, and Hang Yang1
2023 ApJ 955 89
https://iopscience.iop.org/article/10.3847/1538-4357/acef10/pdf

Understanding the Role of Mass-Unloading in Filament Eruptions
Jack Jenkins**, David M Long, Lidia van Driel-Gesztelyi, Jack Carlyle**
Solar Phys. 2017
https://arxiv.org/pdf/1711.02565.pdf

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

Pathways of large-scale magnetic couplings between coronal events
C.J. Schrijver**, A.M. Title, A.R. Yeates and M.L. DeRosa**
E-print, May 2013, File; **ApJSS**

12 Dec
Coronal type III radio bursts and their X-ray flare and interplanetary type III counterparts
Hamish A. S. Reid**, Nicole Vilmer**
A&A 2016
http://arxiv.org/pdf/1609.04743v1.pdf

13 Dec 2011

интересное событие было 13 декабря тоже с 00 до 02 UT. Отрицательный всплеск "на ровном месте", без испульсного всплеска. При этом эруптивное волокно (тоже вне АО, на юго-западе, вблизи лимба), скорее всего, затеняло яркий источник, находящийся от него к северо-западу.
SW поглощения на 304 А.

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

Negative Microwave Bursts
Victor Grechnev **and Hugh Hudson**
RHESSI Science Nugget, No. 206, Aug 2013**.**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Negative_Microwave_Bursts

Microwave Negative Bursts as Indications of Reconnection between Eruptive Filaments and Large-Scale Coronal Magnetic Environment
V. Grechnev**, I. Kuzmenko, A. Uralov, I. Chertok, A. Kochanov**
E-print, Aug 2013**, PASJ**

14 Dec
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

15-16 Dec
Probing the Density Fine Structuring of the Solar Corona with Comet Lovejoy
Giuseppe Nisticò**, Gaetano Zimbardo, Silvia Perri, Valery M. Nakariakov, Timothy J. Duckenfield, Miloslav Druckmueller**
ApJ 2022
https://arxiv.org/pdf/2209.04051.pdf

16 Dec
The Solar Corona as probed by Comet Lovejoy (C/2011 W3)
J. C. Raymond **(CfA), P. I. McCauley (CfA), S. R. Cranmer (CfA), C. Downs (PSI)**
ApJ, 2014
http://arxiv.org/pdf/1405.1639v1.pdf

18 Dec
Using Stereoscopic Observations of Cometary Plasma Tails to Infer Solar Wind Speed
Long Cheng**1,2,3, Quanhao Zhang1,2,3, Yuming Wang1,2,3, Xiaolei Li1,2,3, and Rui Liu**
2020 **ApJ 897 87**
https://sci-hub.tw/https://iopscience.iop.org/article/10.3847/1538-4357/ab93b6

21 Dec
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

22-24 Dec
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

24 Dec

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

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

25 Dec – 18:16: M4.0 STEREO-A, A=63,5*2/312=0,41 ←16 s 8s→0,203

25 Dec 2011 – 00-02 крупная эрупция центрального северного волокна, значительные поглощения на 304 А, крупный CME;
~08 – эрупция еще одного центрального северного волокна;
- LDE и импульсные вспышки из южной области, вечером CME

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

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

The Acceleration Process of a Solar Quiescent Filament in the Inner Corona
H. Q. Song**, Y. Chen, J. Qiu, C. X. Chen, J. Zhang, X. Cheng, Y. D. Shen, and R. S. Zheng**
2018 **ApJL 857 L21**
http://iopscience.iop.org/article/10.3847/2041-8213/aabcc3/pdf

A comparative study between a failed and a successful eruption initiated from the same polarity inversion line in AR 11387
Lijuan Liu**, Yuming Wang, Zhenjun Zhou, Karin Dissauer, Manuela Temmer, Jun Cui**
ApJ 2018
https://arxiv.org/pdf/1804.00867.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

Pathways of large-scale magnetic couplings between coronal events
C.J. Schrijver**, A.M. Title, A.R. Yeates and M.L. DeRosa**

E-print, May 2013, File; **ApJSS**

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**

VARIATIONS OF THE MUON FLUX AT SEA LEVEL ASSOCIATED WITH INTERPLANETARY ICMEs AND COROTATING INTERACTION REGIONS
C. R. A. Augusto**1, V. Kopenkin1, C. E. Navia1, K. H. Tsui1, H. Shigueoka1, A. C. Fauth2, E. Kemp2, E. J. T. Manganote2, M. A. Leigui de Oliveira3, P. Miranda4, R. Ticona4, and A. Velarde** 2012 **ApJ 759 143**

25-27 Dec
Heliospheric Evolution of Magnetic Clouds
Bojan Vršnak**, Tanja Amerstorfer, Mateja Dumbović, Martin Leitner, Astrid M. Veronig, Manuela Temmer, Christian Möstl, Ute V. Amerstorfer, Charles J. Farrugia, Antoinette B. Galvin**
ApJ 2019
https://arxiv.org/pdf/1904.08266.pdf
sci-hub.se/10.3847/1538-4357/ab190a

Influence of coronal mass ejections on parameters of high-speed solar wind: a case study
Yulia Shugay**, Vladimir Slemzin, Denis Rodkin, Yuri Yermolaev and Igor Veselovsky**
J. Space Weather Space Clim. 2018**, 8, A28**
https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170045.pdf

26 Dec – 02:31: M1.5 вспышка, пересвет **на STEREO-A, A=18*2/312=0,12**
20:21: M2.3 вспышка, пересвет **на STEREO-A, A=41*2/312=0,26**

26 Dec 2011 **- At least a partial halo CME was observed after** a filament eruption **across the central meridian**

Saddle-shaped solar flare arcades
Juraj Lörinčík**, Jaroslav Dudík, Guillaume Aulanier**
ApJ 2021
https://arxiv.org/pdf/2102.10858.pdf

The Neupert Effect of Flare UltraViolet and Soft X-ray Emissions
Jiong Qiu
ApJ 2021
https://arxiv.org/pdf/2101.11069.pdf

An observational study on CME flux ropes near the Sun
G. Sindhuja
VarSITI Newsletter Vol. 21 p. 6-7 2019
http://newserver.stil.bas.bg/varsiti/newsL/VarSITI_Newsletter_Vol21.pdf

The Evolution of Quasi-Separatrix Layer in Two Solar Eruptive Events
Kang Kai-Feng**, Yan Xiao-li, Xu Zhi, Wu Ning, Lin Jun**
Chinese Astronomy and Astrophysics Volume 42, Issue 3 Pages 386-420 2018
https://www.sciencedirect.com/journal/chinese-astronomy-and-astrophysics/vol/42/issue/3

On the detection of coronal dimmings and the extraction of their characteristic properties
Karin Dissauer**, Astrid M. Veronig, Manuela Temmer, Tatiana Podladchikova, Kamalam Vanninathan**
ApJ 2018

https://arxiv.org/pdf/1802.03185.pdf

Two-Phase Heating in Flaring Loops
Chunming Zhu, **Jiong Qiu**, **Dana W. Longcope**
ApJ 2018
https://arxiv.org/pdf/1802.00871.pdf

Gradual Solar Coronal Dimming and Evolution of Coronal Mass Ejectionin the Early Phase
Jiong Qiu**1 and Jianxia Cheng**
2017 **ApJL 838 L6 DOI 10.3847/2041-8213/aa6798**
http://sci-hub.cc/10.3847/2041-8213/aa6798

Elongation of Flare Ribbons
Jiong Qiu**1, Dana W. Longcope1, Paul A. Cassak2, and Eric R. Priest**
2017 **ApJ 838 17 DOI 10.3847/1538-4357/aa6341**
http://sci-hub.cc/10.3847/1538-4357/aa6341

The Nature of CME-Flare Associated Coronal Dimming
J. X. Cheng**, J. Qiu**
2016
http://arxiv.org/pdf/1604.05443v1.pdf File

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

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

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**

27 Dec – 09:26: C4.0 вспышка, пересвет **на STEREO-A, A=6*2/312=0,04**

27 Dec 2011 **- At least a partial halo CME was associated with the C8 flare in region 11386 early in the day.**

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

28 Dec 2011 **– 21:20 – NW** поглощения на 304 А

29 Dec – 14:16: M1.9 пересвет **B=19,5*2/281=0,14 ←16s 8s→**13:56 **B=10*2/281=0.071**
21:56: M2.0 вспышка, пересвет **на STEREO-B, B=17*2/281=0,12**

Longitudinal conjunction between MESSENGER and STEREO A: development of ICME complexity through stream interactions
Reka M. Winslow**, Noé Lugaz, Nathan A. Schwadron, Charles J. Farrugia, Wenyuan Yu,**

Jim M. Raines, M. Leila Mays, Antoinette B. Galvin and Thomas H. Zurbuchen

JGR 2016

30 Dec – 03:11: M1.2 вспышка, пересвет **на STEREO-B, B=14*2/281=0,1**

30 Dec

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**

On the Parallel and Perpendicular Propagating Motions Visible in Polar Plumes: An Incubator For (Fast) Solar Wind Acceleration?

Jiajia Liu**, Scott W. McIntosh, Ineke De Moortel, Yuming Wang**

2015

http://arxiv.org/pdf/1507.00143v1.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**

31 Dec – 13:16: M2.4 вспышка, пересвет **на STEREO-B, B=26*2/280=0,19**
16:26: M1.5 вспышка, пересвет **на STEREO-B, B=15*2/280=0,11**

31 Dec

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

Correlation of hard X-ray and white light emission in solar flares

Matej Kuhar**, Säm Krucker, Juan Carlos Martínez Oliveros, Marina Battaglia, Lucia Kleint, Diego Casadei, Hugh S. Hudson**

ApJ 2015

http://arxiv.org/pdf/1511.07757v1.pdf