2014

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

ftp://ftp.sec.noaa.gov/pub/warehouse/2014/2014_plots/xray/
ftp://ftp.sec.noaa.gov/pub/warehouse/2014/2014_plots/proton/

1 Jan – 18:52 – M9.9/2B вспышка в AR1936 (S14W47), очень похожа по профилю рентгена на вспышку 31-ого из той же области. Без радио и без протонов.
The movie shows a dark filament of plasma racing away from the blast site, but most of the material fell back to the stellar surface. 304 A.
- Форбуш и бурька от большой экваториальной КД.
- Вечером небольшая эрупция SE волокна

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

Machine learning correlation of SDO/AIA EUV images to GOES/XRS X-ray flare magnitudes
Kiera van der **Sande**, Natasha Flyer, Thomas Berger, and Riana Gagnon
Front. Astron. Space Sci. 9:1031211. **2022**
https://www.frontiersin.org/articles/10.3389/fspas.2022.1031211/pdf
https://doi.org/10.3389/fspas.2022.1031211

Automatic detection technique for solar filament oscillations in GONG data
M. **Luna**1,2, J. R. Mérou Mestre1,2 and F. Auchère3
A&A 666, A195 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/10/aa44181-22.pdf
https://arxiv.org/pdf/2209.05087.pdf

LUCI onboard Lagrange, the Next Generation of EUV Space Weather Monitoring
M.J. **West**, C. Kintziger, M. Haberreiter, M. Gyo, D. Berghmans, S. Gissot, V Büchel, L. Golub, S. Shestov, J.A. Davies
Journal of Space Weather and Space Climate **2020**
https://arxiv.org/pdf/2009.04788.pdf

GONG Catalog of Solar Filament Oscillations Near Solar Maximum
Manuel **Luna**, Judith Karpen, José Luís Ballester, Karin Muglach, Jaume Terradas, Therese Kucera, Holly Gilbert
Astrophysical Journal Supplement Series **2018**
https://arxiv.org/pdf/1804.03743.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 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 **201**5
http://arxiv.org/pdf/1512.03477v1.pdf

The Helioseismic and Magnetic Imager (HMI) Vector Magnetic Field Pipeline: Magnetohydrodynamics Simulation Module for the Global Solar Corona
Keiji **Hayashi**, J. Todd Hoeksema, Yang Liu, Monica G. Bobra, Xudong D. Sun, Aimee A. Norton
Solar Phys. **2015**
http://arxiv.org/pdf/1504.05217v1.pdf

Observations of Photospheric Vortical Motions During the Early Stage of Filament Eruption
Sajal Kumar **Dhara**, B. Ravindra, Ravinder Kumar Banyal
Solar Phys. **2014**
http://arxiv.org/pdf/1410.3592v1.pdf

Formation of Compound Flux Rope by The Merging of Two Filament Channels, Associated Dynamics and its Stability
Navin Chandra **Joshi**, Tetsuya Magara, Satoshi Inoue
ApJ, **2014**
http://arxiv.org/pdf/1409.1359v1.pdf

2 Jan – 02:41, M1.7, пересвет, STEREO-B B=9*2/277=0,06 сомнительный
22:16, M1.2, пересвет, STEREO-B B=10*2/277=0,072 ←16s 8s→
B=10/277=0,036

2-? Jan – существенное повышение активности в связи с прохождением крупной АО 1944.
Giant sunspot AR1944 has developed a 'beta-gamma-delta' magnetic field that harbors energy for potent Earth-directed eruptions. IIIумовая буря.

---

2 Jan
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

3-10 Jan
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

4 Jan – 19:46: M4.0 вспышка, [S09E<37], S3~550; слабые, медленно нарастающие протоны.
A full **halo CME** blasted away from the sun during the late hours of Jan 4th following a long-duration M4-class solar flare from big sunspot AR1944

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

The source of the major solar energetic particle events from super active region 11944
David H. **Brooks**1,* and Stephanie L. Yardley2
Science Advances 03 Mar **2021**: Vol. 7, no. 10, eabf0068
DOI: 10.1126/sciadv.abf0068
https://advances.sciencemag.org/content/7/10/eabf0068/tab-pdf

5 Jan

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

Supervised convolutional neural networks for classification of flaring and nonflaring active regions using line-of-sight magnetograms
Shamik **Bhattacharjee**, Rasha Alshehhi, Dattaraj B. Dhuri, Shravan M. Hanasoge
ApJ **2020**
https://arxiv.org/pdf/2005.13333.pdf

5-12 Jan

Solar Energetic Particles: Spatial Extent and Implications of the H and He Abundances Review
Donald V. **Reames**
Space Sci. Rev **2022**
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David H. **Brooks**1,* and Stephanie L. Yardley2
Science Advances 03 Mar **2021**: Vol. 7, no. 10, eabf0068 **File**
DOI: 10.1126/sciadv.abf0068
https://advances.sciencemag.org/content/advances/7/10/eabf0068.full.pdf
https://arxiv.org/ftp/arxiv/papers/2103/2103.13621.pdf

A new method to quantify and reduce projection error in whole-solar-active-region parameters measured from vector magnetograms
David A. **Falconer**, Sanjiv K. Tiwari, Ronald L. Moore, Igor Khazanov
ApJL 2017
https://arxiv.org/pdf/1612.01948v1.pdf

6 Jan - 07:55: залимбовый **пересвет** на STEREO-A, и частично на B

6 Jan - AR 1937 behind the southwest limb produced a large proton flare which peaked at 07:45 UTC (J10~25 pfu). Gamma This event was associated with a halo CME. GLE72(?) event

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

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https://arxiv.org/ftp/arxiv/papers/2205/2205.06883.pdf

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

The source of the major solar energetic particle events from super active region 11944
David H. **Brooks**1,* and Stephanie L. Yardley2
Science Advances 03 Mar **2021**: Vol. 7, no. 10, eabf0068
DOI: 10.1126/sciadv.abf0068
https://advances.sciencemag.org/content/7/10/eabf0068/tab-pdf
https://www.science.org/doi/pdf/10.1126/sciadv.abf0068

Coronal Elemental Abundance: New Results from Soft X-Ray Spectroscopy of the Sun
Shyama **Narendranath**, P. Sreekumar, Netra S. Pillai, Singam Panini, K Sankarasubramanian & Juhani Huovelin
Solar Physics volume 295, Article number: 175 (**2020**)
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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

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

The Structure of Solar Coronal Mass Ejections in the Extreme-Ultraviolet Passbands
H. Q. **Song**, J. Zhang, L. P. Li, Y. D. Liu, B. Zhu, B. Wang, R. S. Zheng, Y. Chen
ApJ **2019**
https://arxiv.org/pdf/1910.09735.pdf

Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles
G. A. **de Nolfo**, A. Bruno, J. M. Ryan, S. Dalla, J. Giacalone, I. G. Richardson, E. R. Christian, S. J. Stochaj, G. A. Bazilevskaya, M. Boezio, M. Martucci, V. V. Mikhailov, R. Munini

ApJ **2019**
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Formation and eruption of sigmoidal structure from a weak field region of NOAA 11942
N. **Vasantharaju**, P. Vemareddy, B. Ravindra, V. H. Doddamani
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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

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

Ground level enhancements of cosmic rays in solar cycle 24
M V **Kravtsova** and V E Sdobnov
Astronomy Letters July **2017**, Volume 43, Issue 7, pp 501–506

АНАЛИЗ GLE 6 ЯНВАРЯ 2014 Г
СДОБНОВ В.Е.
ИЗВЕСТИЯ РОССИЙСКОЙ АКАДЕМИИ НАУК. СЕРИЯ ФИЗИЧЕСКАЯ
Том: 81Номер: 2 Год: **2017** Страницы: 140-142

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

The magnetic connectivity of coronal shocks to the visible solar surface during long-duration γ-ray events
Illya **Plotnikov**, Alexis P. Rouillard, Gerald H. Share
A&A **2017**
https://arxiv.org/pdf/1703.07563.pdf **File**

Fermi-LAT Observations of High-energy Behind-the-limb Solar Flares
M. **Ackermann**1, A. Allafort2, L. Baldini3, G. Barbiellini4,5, D. Bastieri6,7, R. Bellazzini8, E. Bissaldi9, R. Bonino10,11, E. Bottacini2, J. Bregeon12Show full author list
2017 ApJ 835 219
http://sci-hub.cc/doi/10.3847/1538-4357/835/2/219

Solar Energetic Particle Events with Protons Above 500 MeV Between 1995 and 2015 Measured with SOHO/EPHIN
P. **Kühl**, N. Dresing, B. Heber, A. Klassen
Solar Physics January **2017**, 292:10
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Small Ground-Level Enhancement of 6 January 2014: Acceleration by CME-Driven Shock?
C. **Li** , L. I. Miroshnichenko, V. E. Sdobnov
Solar Phys. **2016**

Relations Between Microwave Bursts and Near-Earth High-Energy Proton Enhancements and Their Origin
V. V. **Grechnev** , V. I. Kiselev, N. S. Meshalkina, I. M. Chertok
Solar Phys. Volume 290, Issue 10, pp. 2827-2855 **2015**
http://arxiv.org/pdf/1511.05839v1.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**

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

Fermi Large Area Telescope observations of high-energy gamma-ray emission from behind-the-limb solar flares
Melissa **Pesce-Rollins**, Nicola Omodei, Vahe' Petrosian, Wei Liu, Fatima Rubio da Costa, Alice Allafort, for the Fermi-LAT Collaboration
The 34th International Cosmic Ray Conference Proceedings **2015**
http://arxiv.org/pdf/1507.04303v1.pdf

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

A Simple Way to Estimate the Soft X-ray Class of Far-Side Solar Flares Observed with STEREO/EUVI
I.M. **Chertok** (1), A.V. Belov (1), V.V. Grechnev (2)
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Short term Variability of the Sun Earth System: An Overview of Progress Made during the CAWSES II Period **Review**
Nat **Gopalswamy**, Bruce Tsurutani, Yihua Yan
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Proton intensity spectra during the solar energetic particle events of May 17, 2012 and January 6, 2014
P. **Kühl**, S. Banjac, N. Dresing, R. Goméz-Herrero, B. Heber, A. Klassen and C. Terasa
2014 A&A, 576, A120

Ground Level Enhancement in the 2014 January 6 Solar Energetic Particle Event
N. **Thakur**, N. Gopalswamy, H. Xie, P. Makela, S. Yashiro, S. Akiyama, J.M. Davila
E-print, July **2014; File**; ApJL **2014** 790 L13
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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

6-8-11 Jan

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

The source of the major solar energetic particle events from super active region 11944
David H. **Brooks**1,* and Stephanie L. Yardley2
Science Advances 03 Mar **2021**: Vol. 7, no. 10, eabf0068
DOI: 10.1126/sciadv.abf0068
https://advances.sciencemag.org/content/7/10/eabf0068/tab-pdf

Structure and Evolution of an Inter–Active Region Large-scale Magnetic Flux Rope
Aiying **Duan**1, Chaowei Jiang2, Peng Zou2, Xueshang Feng2, and Jun Cui1
2021 ApJ 906 45
https://doi.org/10.3847/1538-4357/abc701

Four Distinct Pathways to the Element Abundances in Solar Energetic Particles **Review**
Donald V. **Reames**
Space Sci. Rev Volume 216, Issue 2, article id.20 **2019**
https://arxiv.org/ftp/arxiv/papers/1912/1912.06691.pdf

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

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

7 Jan - 22:16: C7.4 **пересвет** A=12.5*2/313= 0,08 ←16s 8s→ A=12.5/313= 0,04

7 Jan – 10:13: довольно короткая M7.2/2B вспышка в AR 1944 (S13E11), с мощными микроволнами (S9~5900)
-- 18:32: более продолжительная X1.2/2N вспышка из соседней AR 1943 (S15W11; ПЭ аркада в слабом поле, димминги незначительные) с сильными микроволными и более мягким спектром (S3~8300), II тип; A fast halo CME (exit speed near 2500 km/s) was observed in LASCO and STEREO imagery. Weak sustained gamma. После 19 UT значительное протонное возрастание
-- A weak solar wind shock was observed at 14:24 at SOHO, the arrival of the CME observed on January 4. Небольшой форбуш.

Solar Wind With Field Lines and Energetic Particles (SOFIE) Model: Application to Historical Solar Energetic Particle Events
Lulu **Zhao**, Igor Sokolov, Tamas Gombosi, David Lario, Kathryn Whitman, Zhenguang Huang, Gabor Toth, Ward Manchester, Bart van der Holst … See all authors
Space Weather Volume22, Issue9 September **2024** e2023SW003729

https://doi.org/10.1029/2023SW003729
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2023SW003729

Non-Neutralized Electric Currents as a Proxy for Eruptive Activity in Solar Active Regions
Y. **LIU** , 1 T. TOR¨ OK¨ , 2 V. S. TITOV , 2 J. E. LEAKE , 3 X. SUN (孙旭东) , 4 AND M. JIN
ApJ **2023**
http://sun.stanford.edu/~yliu/papers/neutralization_finalVersion.pdf

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

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

Magnetic field re-configuration associated with a slow rise eruptive X1.2 flare in NOAA active region 11944
Vasyl **Yurchyshyn**, Xu Yang, Gelu Nita, Gregory Fleishman, Valentina Abramenko, Satoshi Inoue, Eun-Kyung Lim, and Wenda Cao
Front. Astron. Space Sci. 9:816523 **2022**
https://www.frontiersin.org/articles/10.3389/fspas.2022.816523/full
https://doi.org/10.3389/fspas.2022.816523
http://www.bbso.njit.edu/~vayur/ar11944_final.pdf **File**

Signature and escape of highly fractionated plasma in an active region
David H. **Brooks**, Stephanie L. Yardley
MNRAS Volume 508, Issue 2, December **2021**, Pages 1831–1841,
https://doi.org/10.1093/mnras/stab2681
https://arxiv.org/pdf/2109.11157.pdf

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

The source of the major solar energetic particle events from super active region 11944
David H. **Brooks**1,* and Stephanie L. Yardley2
Science Advances 03 Mar **2021**: Vol. 7, no. 10, eabf0068
DOI: 10.1126/sciadv.abf0068
https://advances.sciencemag.org/content/7/10/eabf0068/tab-pdf
https://www.science.org/doi/pdf/10.1126/sciadv.abf0068

Structure and Evolution of an Inter–Active Region Large-scale Magnetic Flux Rope
Aiying **Duan**1, Chaowei Jiang2, Peng Zou2, Xueshang Feng2, and Jun Cui1
2021 ApJ 906 45
https://doi.org/10.3847/1538-4357/abc701

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**)
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10:13 M7.3 flare **Hot X-ray Onsets of Solar Flares**
Hugh S. **Hudson**, Paulo J. A. Simoes, Lyndsay Fletcher, Laura A. Hayes, Iain G. Hannah
MNRAS **2020**
https://arxiv.org/pdf/2007.05310.pdf

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
https://iopscience.iop.org/article/10.3847/1538-4357/ab822c/pdf

Lyman-alpha Variability During Solar Flares Over Solar Cycle 24 Using GOES-15/EUVS-E
Ryan O. **Milligan**, Hugh S. Hudson, Phillip C. Chamberlin, Iain G. Hannah
Space Weather Volume 18, Issue 7, article id. e02331 **2020**
https://arxiv.org/pdf/1910.01364.pdf
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Reconstruction of a Highly Twisted Magnetic Flux Rope for an Inter-active-region X-Class Solar Flare
Chaowei **Jiang**1*, Aiying Duan2, Xueshang Feng3, Peng Zou1, Pingbing Zuo1 and Yi Wang1
Front. Astron. Space Sci. 6:63 **2019**
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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 Volume 884, Issue 1, article id. 73, **2019**
https://arxiv.org/pdf/1908.08643.pdf
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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
ApJ **879** 90 **2019**
https://arxiv.org/pdf/1905.12878.pdf **File**
https://iopscience.iop.org/article/10.3847/1538-4357/ab258f/pdf

Temporal Evolution of Heavy-Ion Spectra in Solar Energetic Particle Events
Donald J. **Doran**, Silvia Dalla, Peter Zelina
Solar Physics May **2019**, 294:55
https://link.springer.com/content/pdf/10.1007/s11207-019-1431-9.pdf

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

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE **Thesis Catalog (2010-2017)**
Allafort, A. J.
(**2018**). PhD thesis, Stanford Univ. **File**

https://stacks.stanford.edu/file/druid:kp476kd8769/Allafort_Thesis_final_Dec13-augmented.pdf

СРАВНЕНИЕ ОСОБЕННОСТЕЙ ФОРМИРОВАНИЯ КОРОНАЛЬНЫХ ВЫБРОСОВ МАССЫ, ИМЕЮЩИХ РАЗНУЮ СКОРОСТЬ В ПОЛЕ ЗРЕНИЯ КОРОНГРАФОВ LASCO
Загайнова Ю.С.1, Файнштейн В.Г.2, Мышьяков И.И.2
Астрономия-**2018** Том 2 Солнечно-земная физика – современное состояние и перспективы Стр. 82
http://www.izmiran.ru/library/eaas2018/eaas-2018-2.pdf

Lyman Continuum Observations of Solar Flares Using SDO/EVE
Marcos E. **Machado**, Ryan O. Milligan, Paulo J. A. Simoes
ApJ Volume 869, Issue 1, article id. 63 **2018**
https://arxiv.org/pdf/1810.10824.pdf
https://iopscience.iop.org/article/10.3847/1538-4357/aaec6e/pdf

Extreme Kinematics of the 2017 September 10 Solar Eruption and the Spectral Characteristics of the Associated Energetic Particles
N. **Gopalswamy**, S. Yashiro, P. Makela, H. Xie, S. Akiyama, C. Monstein
ApJL 863:L39 **2018**
https://arxiv.org/ftp/arxiv/papers/1807/1807.09906.pdf
https://iopscience.iop.org/article/10.3847/2041-8213/aad86c/pdf

Understanding Problem Forecasts of ISEST Campaign Flare-CME Events
David **Webb**, Nariaki Nitta
Solar Physics October **2017**, 292:142 **File**
https://link.springer.com/content/pdf/10.1007/s11207-017-1166-4.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

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

Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions
Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
ApJ **2017 834** 56
https://arxiv.org/pdf/1611.05047v1.pdf
https://iopscience.iop.org/article/10.3847/1538-4357/834/1/56/pdf

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

Doppler speeds of the hydrogen Lyman lines in solar flares from EVE
Stephen A **Brown**, Lyndsay Fletcher, Nicolas Labrosse

A&A 596, A51 **2016**
https://arxiv.org/pdf/1610.04007v1.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

Properties and Modeling of Unresolved Fine Structure Loops Observed by IRIS
David H. **Brooks**, Jeffrey W. Reep, Harry P. Warren
ApJ **2016**
http://arxiv.org/pdf/1606.05440v1.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

Slipping magnetic reconnections with multiple flare ribbons during an X-class solar flare
Ruisheng **Zheng**, Yao Chen, Bing Wang
ApJ **2016**
http://arxiv.org/pdf/1604.04982v1.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 823 136 **2016**
http://arxiv.org/pdf/1602.07244v1.pdf
https://iopscience.iop.org/article/10.3847/0004-637X/823/2/136/pdf

ПРЕДВСПЫШЕЧНАЯ ДИНАМИКА МИКРОВОЛНОВОГО ИЗЛУЧЕНИЯ И МАГНИТНОГО ПОЛЯ АКТИВНЫХ ОБЛАСТЕЙ СОЛНЦА
Абрамов-Максимов В.Е.1, Боровик В.Н.1, Опейкина Л.В.2, Тлатов А.Г.
*«Солнечная и солнечно-земная физика – **2015**» с. 7*

Relations Between Microwave Bursts and Near-Earth High-Energy Proton Enhancements and Their Origin
V. V. **Grechnev** , V. I. Kiselev, N. S. Meshalkina, I. M. Chertok
Solar Phys. Volume 290, Issue 10, pp. 2827-2855 **2015**
http://arxiv.org/pdf/1511.05839v1.pdf
https://link.springer.com/content/pdf/10.1007/s11207-015-0797-6.pdf

The role of active region coronal magnetic field in determining coronal mass ejection propagation direction
Rui **Wang**, Ying D. Liu, Xinghua Dai, Zhongwei Yang, Chong Huang, Huidong Hu
ApJ 814 80 **2015**
http://arxiv.org/pdf/1510.06177v1.pdf
https://iopscience.iop.org/article/10.1088/0004-637X/814/1/80/pdf

Propagation of the 7 January 2014 CME and Resulting Geomagnetic Non-Event
M. L. **Mays**, B. J. Thompson, L. K. Jian, R. C. Colaninno, D. Odstrcil, C. Möstl, M. Temmer, N. P. Savani, A. Taktakishvili, P. J. MacNeice, Y. Zheng
2015 Astrophysical Journal, Volume 812, Issue 2, article id. 145, 15 pp.
http://arxiv.org/pdf/1509.06477v1.pdf
https://ui.adsabs.harvard.edu/link_gateway/2015ApJ...812..145M/PUB_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

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

Strong coronal channelling and interplanetary evolution of a solar storm up to Earth and Mars
Christian **Möstl**, Tanja Rollett, Rudy A. Frahm, Ying D. Liu, David M. Long, Robin C. Colaninno, Martin A. Reiss, Manuela Temmer, Charles J. Farrugia, Arik Posner, Mateja Dumbović, Miho Janvier, Pascal Démoulin, Peter Boakes, Andy Devos, Emil Kraaikamp, Mona L. Mays, Bojan Vrsnak
Nature Communications **6**, Article number: 7135 **2015**
http://arxiv.org/pdf/1506.02842v1.pdf
https://www.nature.com/articles/ncomms8135.pdf

Short term Variability of the Sun Earth System: An Overview of Progress Made during the CAWSES II Period **Review**
Nat **Gopalswamy**, Bruce Tsurutani, Yihua Yan
Progress in Earth and Planetary Science, **2015**
http://arxiv.org/pdf/1504.06332v1.pdf

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

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

7 January 2014 Events - What Can We Learn? - AGU Session
Solar News, 1 Aug, 2014
http://sun.stanford.edu/2014January/ - много данных
To make the challenge specific: what do you learn from the curious events of January 2014? A large sunspot group near disk center was associated with a strong solar proton event and on 7 January an X-class flare, but caused no significant geomagnetic response. Share your understanding of the global Sun, the origin of activity and storms, and the consequences for the heliosphere and Earth based on this or other recent events.

7-9 Jan

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

Benchmarking CME Arrival Time and Impact: Progress on Metadata, Metrics, and Events
C. **Verbeke**, M. L. Mays, M. Temmer, S. Bingham, R. Steenburgh, M. Dumbović, M. Núñez, L.K. Jian, P. Hess, C. Wiegand, A. Taktakishvili, J. Andries
Space Weather special issue: Space Weather Capabilities Assessment **2018**
https://arxiv.org/pdf/1811.10695.pdf

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

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

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

7-15 Jan

Modeling solar energetic particle events using ENLIL heliosphere simulations
J. G. **Luhmann,** M. L. Mays, D. Odstrcil, Yan Li, H. Bain, C. O. Lee, A. B. Galvin, R. A. Mewaldt, C. M. S. Cohen, R. A. Leske, et al
Space Weather Volume 15, Issue 7 July **2017** Pages 934–954
http://sci-hub.cc/10.1002/2017SW001617

8 Jan - 03:46: M3.6 вспышка, **пересвет** на STEREO-A, A=29*2/313= 0,19

8 Jan – 03:47 - импульсная вспышка M3.6/SF, AR 1947 (N11W81), S3~100, type II
- **Протоны от вспышки 7-ого достигли J10~1000 pfu**

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

Cold Solar Flares. I. Microwave Domain
Alexandra L. **Lysenko**1, Stephen M. White2, Dmitry A. Zhdanov3, Nataliia S. Meshalkina3, Aleksander T. Altyntsev3, Galina G. Motorina1,4,5, and Gregory D. Fleishman6,7
2023 ApJ 954 122
https://iopscience.iop.org/article/10.3847/1538-4357/acea20/pdf

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

Direct Observations of Traveling Ionospheric Disturbances as Focusers of Solar Radiation: Spectral Caustics
Artem **Koval**, Yao Chen, Takuya Tsugawa, Yuichi Otsuka, Atsuki Shinbori, Michi Nishioka, Anatoliy Brazhenko, Aleksander Stanislavsky, Aleksander Konovalenko, Qing-He Zhang, Christian Monstein, Roman Gorgutsa
ApJ **2019**

https://arxiv.org/pdf/1904.09577.pdf

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

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

A new method to quantify and reduce projection error in whole-solar-active-region parameters measured from vector magnetograms
David A. **Falconer**, Sanjiv K. Tiwari, Ronald L. Moore, Igor Khazanov
ApJL 2017
https://arxiv.org/pdf/1612.01948v1.pdf

Investigating the Conditions of the Formation of a Type II Radio Burst on 2014 January 8
W. **Su**, X. Cheng, M. D. Ding, P. F. Chen, Z. J. Ning, H. S. Ji
2016
http://arxiv.org/pdf/1609.05633v1.pdf

The Formation and Early Evolution of a Coronal Mass Ejection and its Associated Shock Wave on 2014 January 8
Linfeng **Wan**, Xin Cheng, Tong Shi, Wei Su, M. D. Ding
ApJ **2016**
http://arxiv.org/pdf/1605.01132v1.pdf

Analytical solutions of continuity equation for joint collisional and Ohmic energy losses and their effects on hard X-ray emission. II. Mixed energy losses
Zharkova V.V. and Dobranskis R.R.
MNRAS **2016**
http://mnras.oxfordjournals.org/content/early/2016/03/07/mnras.stw500.full.pdf?keytype=ref&ijkey=zcVKoDhBj8zNW7o

Small Ground-Level Enhancement of 6 January 2014: Acceleration by CME-Driven Shock?
C. **Li** , L. I. Miroshnichenko, V. E. Sdobnov
Solar Phys. **2016**

Chromospheric sunspots in millimeter range as observed by Nobeyama Radioheliograph
Kazumasa **Iwai**, Hideki Koshiishi, Kiyoto Shibasaki, Satoshi Nozawa, Shun Miyawaki, Takuro Yoneya
ApJ **201**5
http://arxiv.org/pdf/1511.08991v1.pdf

An observational revisit of band-split solar type-II radio bursts
Guohui **Du**, Xiangliang Kong, Yao Chen, Shiwei Feng, Bing Wang, Gang Li
2015
http://arxiv.org/pdf/1509.03832v1.pdf

8-10 Jan
Multiwavelength Study of Equatorial Coronal-Hole Jets
Pankaj **Kumar**, Judith T. Karpen, Spiro K. Antiochos, Peter F. Wyper, C. Richard DeVore, Craig E. DeForest
ApJ **2019**

https://arxiv.org/pdf/1902.00922.pdf

9 Jan – A CME от вспышки 7-ого hit Earth's magnetic field on Jan. 9th. The impact around 20:00 UTC was weaker than expected, and geomagnetic storming has been less than predicted. Bz>0. Форбуш.

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

Evidence For The Magnetic Breakout Model in an Equatorial Coronal-Hole Jet
Pankaj **Kumar**, Judith T. Karpen, Spiro K. Antiochos, Peter F. Wyper, C. Richard DeVore, Craig E. DeForest
ApJ **2018**
https://arxiv.org/pdf/1801.08582.pdf

Observations of Subarcsecond Bright Dots in the Transition Region above Sunspots with the Interface Region Imaging Spectrograph
H. **Tian**, L. Kleint, H. Peter, M. Weber, P. Testa, E. DeLuca, L. Golub, N. Schanche
ApJL, **2014**
http://arxiv.org/pdf/1407.1060v1.pdf

12 Jan - Earth is entering a fast stream of solar wind со скоростью до 800 км/с от крупной CH599;
Bz≥0, бури практически нет, продолжающийся небольшой форбуш

13 Jan 21:51 M1.3 spike+mini PE Jet Both eruptive and confined flare characteristics

A Solar Magnetic-fan Flaring Arch Heated by Non-thermal Particles and Hot Plasma from an X-ray Jet Eruption
Kyoung-Sun **Lee**, Hirohisa Hara, Kyoko Watanabe, Anand D. Joshi, David H. Brooks, Shinsuke Imada, Avijeet Prasad, Phillip Dang, Toshifumi Shimizu, Sabrina L. Savage, Ronald Moore, Navdeep K. Panesar, Jeffrey W. Reep
ApJ **2020**
https://arxiv.org/pdf/2005.09875.pdf

A Hot Cusp-Shaped Confined Solar Flare
Aaron **Hernandez-Perez**, Yang Su, Julia K. Thalmann, Astrid M. Veronig, Ewan C. Dickson, Karin Dissauer, Bhuwan Joshi, Ramesh Chandra
ApJ **2019**
https://arxiv.org/pdf/1911.10859.pdf

Analytical solutions of continuity equation for joint collisional and Ohmic energy losses and their effects on hard X-ray emission. II. Mixed energy losses
Zharkova V.V. and Dobranskis R.R.
MNRAS **2016**
http://mnras.oxfordjournals.org/content/early/2016/03/07/mnras.stw500.full.pdf?keytype=ref&ijkey=zcVKoDhBj8zNW7o

14 Jan - 9 Feb CR 2146
Mapping Magnetic Field Lines for an Accelerating Solar Wind
S. **Tasnim**, Iver H. Cairns, B. Li, M. S. Wheatland
Solar Physics November **2019**, 294:155
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1541-4.pdf

17 Jan

Analytical solutions of continuity equation for joint collisional and Ohmic energy losses and their effects on hard X-ray emission. II. Mixed energy losses
Zharkova V.V. and Dobranskis R.R.
MNRAS **2016**
http://mnras.oxfordjournals.org/content/early/2016/03/07/mnras.stw500.full.pdf?keytype=ref&ijkey=zcVKoDhBj8zNW7o

Photospheric Flow Field Related to the Evolution of the Sun's Polar Magnetic Patches Observed by Hinode SOT
Anjali John **Kaithakka**l, Y. Suematsu, M. Kubo, Y. Iida, D. Shiota, S. Tsuneta
ApJ, **2015**
http://arxiv.org/pdf/1412.8023v1.pdf

20 Jan - The most interesting event of the day was a long duration C3.6 event peaking at 22:49 UTC. Its source was a filament eruption near AR S3044 [S07E71]. An asymmetric halo CME was observed late in the day after a long duration C3 event involving AR 11963 and a filament eruption.

22 Jan - Solar wind speed at SOHO ranged between 408 and 584 km/s under the influence of a high speed stream from CH600. Без бури и форбуша.

The Center-to-Limb Variation of Non-Thermal Velocities using IRIS Si IV
Yamini K. **Rao**, Giulio Del Zanna, Helen E. Mason
MNRAS, **2022**
https://arxiv.org/pdf/2201.07290.pdf

23 Jan

Stealth Non-standard-model Confined Flare Eruptions: Sudden Reconnection Events in Ostensibly Inert Magnetic Arches from Sunspots
Ronald L. **Moore**, Sanjiv K. Tiwari, Navdeep K. Panesar, V. Aparna, Alphonse C. Sterling
ApJ **2024**
https://arxiv.org/pdf/2408.09021

OBSERVATIONS OF SMALL-SCALE ENERGETIC EVENTS IN THE SOLAR TRANSITION REGION: EXPLOSIVE EVENTS, UV BURSTS, AND NETWORK JETS
Zhenghua **Huang**, Bo Li, Lidong Xia.
Solar-Terrestrial Physics. **2019**. Vol. 5. Iss. 2, pp. 58–68
Solnechno-zemnaya fizika, 2019, Vol. 5. Iss. 2. P. 63–73
https://naukaru.ru/en/storage/view/36901

Photospheric Flow Field Related to the Evolution of the Sun's Polar Magnetic Patches Observed by Hinode SOT
Anjali John **Kaithakka**l, Y. Suematsu, M. Kubo, Y. Iida, D. Shiota, S. Tsuneta
ApJ, **2015**
http://arxiv.org/pdf/1412.8023v1.pdf

23-24 Jan

Statistical Study of Network Jets Observed in the Solar Transition Region: a Comparison Between Coronal Holes and Quiet-Sun Regions
Nancy **Narang**, Rebecca T. Arbacher, Hui Tian, Dipankar Banerjee , Steven R. Cranmer, Ed E. DeLuca, Sean McKillop
Solar Phys. **2016**
http://arxiv.org/pdf/1604.06295v1.pdf

25 Jan

Interaction of a coronal mass ejection and a stream interaction region: A case study

Paul **Geyer**1, Mateja Dumbović1, Manuela Temmer2, Astrid Veronig2, Karin Dissauer3 and Bojan Vršnak1

A&A 672, A168 (**2023**)

https://doi.org/10.1051/0004-6361/202245433

https://www.aanda.org/articles/aa/pdf/2023/04/aa45433-22.pdf

26 Jan

Imaging and Spectral Observations of a Type-II Radio Burst Revealing the Section of the CME-Driven Shock that Accelerates Electrons

Satabdwa **Majumdar**, Srikar Paavan Tadepalli, Samriddhi Sankar Maity, Ketaki Deshpande, Anshu Kumari, Ritesh Patel, Nat Gopalswamy

Solar Phys. **2021**

https://arxiv.org/pdf/2103.09536.pdf

27 Jan - 22:16: M4.9 **пересвет** B=30*2/278= 0,22 ←16s 8s→ **22:11** B=20*2/278= 0,144

27 Jan - Active sunspot AR1944, which produced many strong flares earlier this month, has returned from a two-week trip around the farside of the sun.

The need for new techniques to identify the high-frequency MHD waves of an oscillating coronal loop

Farhad **Allian**, Rekha Jain

A&A **2021**

https://arxiv.org/pdf/2105.08189.pdf

A New Analysis Procedure for Detecting Periodicities within Complex Solar Coronal Arcades

Farhad **Allian**, Rekha Jain, B.W Hindman

ApJ **2019**

https://arxiv.org/pdf/1902.06644.pdf

Global Energetics of Solar Flares: III. Non thermal Energies

Markus J. **Aschwanden**, Gordon Holman, Aidan O'Flannagain, Amir Campi, James M. McTiernan, Eduard Konter

ApJ **2016**

http://arxiv.org/pdf/1607.06488v1.pdf

27-28 Jan

Study of transverse oscillations in coronal loops excited by flares and eruptions

Sandra M. **Conde** C, Rekha Jain, Vera Jatenco-Pereira

ApJ **2022**

https://arxiv.org/pdf/2205.12063.pdf

28 Jan – 07:31: M3.6 вспышка, **пересвет** на STEREO-B, B=17*2/279= 0,12
11:41: M1.4 вспышка, **пересвет** на STEREO-B, B=8*2/279= 0,06
12:51: M1.3 вспышка, **пересвет** на STEREO-B, B=13*2/279= 0,09
15:26: M2.0 вспышка, **пересвет** на STEREO-B, B=10,5*2/279= 0,07
19:41: M4.9 вспышка, **пересвет** на STEREO-B, B=25,5*2/279= 0,18
22:16: M2.6 **пересвет** B=27*2/279= 0,19 ←16s 8s→ B=27/279= 0,097

28 Jan

Signatures of Type III Solar Radio Bursts from Nanoflares: Modeling
Sherry **Chhabra**, James A. Klimchuk, Dale E. Gary
ApJ **922** 128 **2021**
https://arxiv.org/pdf/2109.03355.pdf
https://doi.org/10.3847/1538-4357/ac2364

Excitation Sources of Oscillations in Solar Coronal Loops: A Multi-wavelength Analysis
Sandra M. **Conde** C.1,2, Rekha Jain3, and Vera Jatenco-Pereira1
2020 ApJL 890 L21
https://doi.org/10.3847/2041-8213/ab7348

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

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

29 Jan - A halo CME was observed after a filament eruption in the southwest quadrant.
Statistical Study of Network Jets Observed in the Solar Transition Region: a Comparison

Categorization of Coronal Mass Ejection Driven Sheath Regions: Characteristics of STEREO Events
T. M. **Salman**, N. Lugaz, R. M. Winslow, C. J. Farrugia, L. K. Jian, A. B. Galvin
ApJ **2021**
https://arxiv.org/pdf/2106.12076.pdf

Between Coronal Holes and Quiet-Sun Regions
Nancy **Narang**, Rebecca T. Arbacher, Hui Tian, Dipankar Banerjee , Steven R. Cranmer, Ed E. DeLuca, Sean McKillop
Solar Phys. **2016**
http://arxiv.org/pdf/1604.06295v1.pdf

30 Jan - Big sunspot AR1967 unleashed a strong M6-class solar flare on Jan. 30th at approximately 1617 UTC. The explosion, which may be seen at the end of this movie of today's solar eclipse, hurled a full halo CME into space. Radio emissions from shock waves preceding the CME suggest that it could be leaving the sun faster than 2100 km/s (4.7 million mph).
A halo CME was observed after an M1 event in AR 11967 at 08:11 UTC. The CME was faint over the west limbs and the north pole. A much larger CME was observed after the M6 flare in AR 11967 at 16:11 UTC.

Inter-planetary type-IV solar radio bursts: A comprehensive catalog and statistical results
Atul **Mohan**, Nat Gopalswamy, Anshu Kumari, Sachiko Akiyama, Sindhuja G
ApJ **2024**
https://arxiv.org/pdf/2406.00194

31 Jan - M1.1 flare at 15:42 UTC was associated with a **halo CME**.

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

Interaction of Two Active Region Filaments Observed by NVST and SDO
Liheng **Yang**, Xiaoli Yan, Ting Li, Zhike Xue, Yongyuan Xiang
ApJ **2017**
https://arxiv.org/pdf/1703.01712.pdf

31 January-9 February 2014

Extrapolation of Three Dimensional Magnetic Field Structure in Flare-Productive Active Regions with Different Initial Condition
Y. **Kawabata**, S. Inoue, T. Shimizu
ApJ **2020**
https://arxiv.org/pdf/2005.00177.pdf

A year starting in February 2014
Lifecycle of a large-scale polar coronal pseudostreamer/cavity system
Chloé **Guennou**1, 2*, Laurel A. Rachmeler3, Daniel B. Seaton3, 4, 5, Frédéric Auchère6
Front. Astron. Space Sci. **2016** | doi: 10.3389/fspas.2016.00014
http://journal.frontiersin.org/article/10.3389/fspas.2016.00014/abstract

1 Feb

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

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

1-5 Feb

Expulsion of counter Evershed flows from sunspot penumbrae
J.S. Castellanos **Durán**, A. Korpi-Lagg, S.K. Solanki
ApJ **2023**
https://arxiv.org/pdf/2305.19705.pdf

Detection of the strongest magnetic field in a sunspot light bridge
J. S. Castellanos **Durán**, A. Lagg, S. K. Solanki, M. van Noort
ApJ **2020**
https://arxiv.org/pdf/2003.12078.pdf

Super-strong Magnetic Field in Sunspots
Takenori J. **Okamoto**, Takashi Sakurai
ApJL **2017**
https://arxiv.org/pdf/1712.08700.pdf

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

2 Feb

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

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

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

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

Formation of a Solar Filament by Magnetic Reconnection and Associated Chromospheric Evaporation and Subsequent Coronal Condensation
Bo **Yang**, Jiayan Yang, Yi Bi, Junchao Hong, Zhe Xu
ApJ Letters **2021**
https://arxiv.org/pdf/2110.10951.pdf

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

A 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

Signatures of Magnetic Flux Ropes in the Low Solar Atmosphere Observed in High Resolution **Review**
Haimin **Wang** and Chang Liu
Front. Astron. Space Sci., 04 April **2019**
sci-hub.se/10.3389/fspas.2019.00018
https://www.frontiersin.org/articles/10.3389/fspas.2019.00018/full

Reconstruction of a Large-scale Pre-flare Coronal Current Sheet Associated with an Homologous X-shaped Flare

Chaowei **Jiang**, Xiaoli Yan, Xueshang Feng, Aiying Duan, Qiang Hu, Pingbing Zuo, Yi Wang
ApJ **2017**
https://arxiv.org/pdf/1710.02775.pdf

Observing Formation of Flux Rope by Tether-cutting Reconnection in the Sun
Zhike **Xue**1,2,3, Xiaoli Yan1,2,3, Liheng Yang1,3, Jincheng Wang1,3,4, and Li Zhao1,3
2017 ApJL 840 L23
http://sci-hub.cc/10.3847/2041-8213/aa7066

Non-potential field formation in the X-shaped quadrupole magnetic field configuration
Yusuke **Kawabata**, Satoshi Inoue, Toshifumi Shimizu
2017
https://arxiv.org/pdf/1705.02560.pdf

Investigating Energetic X-Shaped Flares on the Outskirts of A Solar Active Region
Rui **Liu**, Jun Chen, Yuming Wang, Kai Liu
Scientific Reports **2016**
http://arxiv.org/pdf/1609.02713v1.pdf

Slipping Magnetic Reconnection Triggering a Solar Eruption of a Triangle-flag Flux Rope
Ting **Li** & Jun Zhang
ApJL, **2014**
http://www.researchgate.net/publication/263928819_Slipping_Magnetic_Reconnection_Triggering_a_Solar_Eruption_of_a_Triangle-flag_Flux_Rope?ev=prf_pub

2-5 Feb
The Evolution of Plasma Composition During a Solar Flare
Andy S.H. **To**, David M. Long, Deborah Baker, David H. Brooks, Lidia van Driel-Gesztelyi, J. Martin Laming, Gherardo Valori
ApJ **2021**
https://arxiv.org/pdf/2102.09985.pdf

3 Feb - ~07 UT: южная/центральная эрупция

Extrapolation of Three-dimensional Magnetic Field Structure in Flare-productive Active Regions with Different Initial Conditions
Y. **Kawabata**1, S. Inoue2, and T. Shimizu3,4
2020 ApJ 895 105
https://sci-hub.tw/https://iopscience.iop.org/article/10.3847/1538-4357/ab8ea9

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

JOINT HIGH TEMPERATURE OBSERVATION OF A SMALL C6.5 SOLAR FLARE WITH IRIS/EIS/AIA
Polito V., Reeves, K.K., Del Zanna, G., Golub, L., Mason, H.E.
2015
http://www.damtp.cam.ac.uk/user/astro/papers/polito+2015.pdf

Magnetic reconnection between small-scale loops observed with the New Vacuum Solar Telescope
Shuhong **Yang**, Jun Zhang, and Yongyuan Xiang

ApJL, **2014**.
Animations: http://ourstar.bao.ac.cn/~shuhongyang/files/apjl_reconnection/

3-7 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

4 Feb

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

Interaction of a coronal mass ejection and a stream interaction region: A case study
Paul **Geyer**1, Mateja Dumbović1, Manuela Temmer2, Astrid Veronig2, Karin Dissauer3 and Bojan Vršnak1
A&A 672, A168 (**2023**)
https://doi.org/10.1051/0004-6361/202245433
https://www.aanda.org/articles/aa/pdf/2023/04/aa45433-22.pdf

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

Variation of Magnetic Flux Ropes Through Major Solar Flares
Aiying **Duan**, Chaowei Jiang, Zhenjun Zhou, Xueshang Feng, Jun Cui
ApJL **2021**
https://arxiv.org/pdf/2012.14588.pdf

Observations and modeling of the onset of fast reconnection in the solar transition region
L.-J. **Guo**, B. De Pontieu, Y.-M. Huang, H. Peter, A. Bhattacharjee
ApJ **2020**
https://arxiv.org/pdf/2009.11475.pdf

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

On the Effectiveness of Multi-Instrument Solar Flare Observations During Solar Cycle 24
Ryan O. **Milligan**, Jack Ireland
Solar Phys. **2017**
https://arxiv.org/pdf/1703.04412.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

4-6 Feb

Detection of the strongest magnetic field in a sunspot light bridge
J. S. Castellanos **Durán**, A. Lagg, S. K. Solanki, M. van Noort
ApJ **2020**
https://arxiv.org/pdf/2003.12078.pdf

Super-strong Magnetic Field in Sunspots
Takenori J. **Okamoto**, Takashi Sakurai
ApJL **2017**
https://arxiv.org/pdf/1712.08700.pdf

4-10 Feb
Interaction of a coronal mass ejection and a stream interaction region: A case study
Paul **Geyer**1, Mateja Dumbović1, Manuela Temmer2, Astrid Veronig2, Karin Dissauer3 and Bojan Vršnak1
A&A 672, A168 (**2023**)
https://doi.org/10.1051/0004-6361/202245433
https://www.aanda.org/articles/aa/pdf/2023/04/aa45433-22.pdf

5 Feb
The Neupert Effect of Flare UltraViolet and Soft X-ray Emissions
Jiong **Qiu**
ApJ **2021**
https://arxiv.org/pdf/2101.11069.pdf

6 Feb
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

7 Feb - A minor CME hit Earth's magnetic field and **an effect of CH602**.

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

7-14 Feb
Imaging the Sun's Far-Side Active Regions by Applying Multiple Measurement Schemes on Multi-Skip Acoustic Waves
Junwei **Zhao**, Dominick Hing, Ruizhu Chen, Shea Hess Webber
ApJ **2019**)
https://arxiv.org/pdf/1912.06736.pdf

8 Feb

Different manifestations of a loop-like transient brightening in solar atmospheres
Qiangwei **Cai**1,2,3,4, Hao Li5, Jincheng Wang6 and Hengqiang Feng1,3⋆
A&A 691, A309 (**2024**)
https://www.aanda.org/articles/aa/pdf/2024/11/aa49396-24.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

9 Feb – 16:16: M1.0 **пересвет** B=15,5*2/279= 0,11 ←16s 8s→ B=15,5/279= 0,056

9 Feb - The largest flare of the day was a long duration M1.1 event peaking at 16:17 UTC. Its source was a region at the southeast limb. The event was associated with a large partial halo CME.
И ещё ~12-13 UT: заметная эрупция в SE квадранте без большого CME.

Automatic detection technique for solar filament oscillations in GONG data
M. **Luna**1,2, J. R. Mérou Mestre1,2 and F. Auchère3
A&A 666, A195 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/10/aa44181-22.pdf
https://arxiv.org/pdf/2209.05087.pdf

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

GONG Catalog of Solar Filament Oscillations Near Solar Maximum
Manuel **Luna**, Judith Karpen, José Luís Ballester, Karin Muglach, Jaume Terradas, Therese Kucera, Holly Gilbert
Astrophysical Journal Supplement Series **2018**
https://arxiv.org/pdf/1804.03743.pdf

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

9-15 Feb
Light Bridge in a Developing Active Region. I. Observation of Light Bridge and its Dynamic Activity Phenomena
Shin **Toriumi**, Yukio Katsukawa, Mark C. M. Cheung
ApJ 811 137 **2015**
http://arxiv.org/pdf/1509.00183v1.pdf

10 Feb залимбовый пересвет 18:16 ←16s 8s→ A=105/313=0.34
Рядом меньше

10 Feb
CONSTRAINING THE SOLAR CORONAL MAGNETIC FIELD STRENGTH USING SPLIT-BAND TYPE II RADIO BURST OBSERVATIONS
P. **Kishore**1, R. Ramesh1, K. Hariharan1, C. Kathiravan1, and N. Gopalswamy
2016 ApJ 832 59

http://sci-hub.cc/10.3847/0004-637X/832/1/59

11 Feb – 03:31: кратковременная M1.7/1N вспышка (S12E17), S9~340, II тип. A partial halo CME was observed after 11h UTC following a filament eruption near AR 11978 in the northwest quadrant, 304 A. Форбуш.

Onset and evolution of solar flares: Application of 2D and 3D models of magnetic reconnection
Bhuwan **Joshi**, Prabir K. Mitra , Astrid M. Veronig , R. Bhattacharyya
the 3rd BINA workshop, to be published in the Bulletin of the Liège Royal Society of Sciences **2023**
https://arxiv.org/pdf/2310.00366.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

Probing Twisted Magnetic Field Using Microwave Observations in an M Class Solar Flare on 11 February, 2014
I.N. **Sharykin**, A.A. Kuznetsov, I.I. Myshyakov
Solar Phys. **2018**
https://arxiv.org/pdf/1801.04400.pdf

Feb 11-Mar 11
Observations of Slow Solar Wind from Equatorial Coronal Holes
Y.-M. **Wang** and Y.-K. Ko
2019 ApJ 880 146
sci-hub.se/10.3847/1538-4357/ab2add

12 Feb - S3098 [S12E05] developed quickly and has become capable of producing major flares, an X class flare is possible. There are several magnetic delta structures within the region. C5+ flares: M1.7/1N at 03:31, long duration C8.4/1F peaking at 13:57, M1.8 at 16:51, C5.9/1F at 22:15 UTC. The region was the source of an M3.7 flare at 04:25;
>10 UT – A slow symmetric full halo CME was observed after an M2 flare in AR S3098. **Форбуш.**

Identifying preflare spectral features using explainable artificial intelligence
Brandon **Panos**, Lucia Kleint, Jonas Zbinden
A&A **2023**
https://arxiv.org/pdf/2301.01560.pdf

On the Variation of Volumetric Evolution of CMEs from Inner to Outer Corona
Satabdwa **Majumdar**, Ritesh Patel, Vaibhav Pant
ApJ **2022**
https://arxiv.org/pdf/2202.11924.pdf

A holistic approach to understand Helium enrichment in Interplanetary coronal mass ejections: New insights
Yogesh, D. Chakrabarty, N. Srivastava
MNRAS **2022**
https://arxiv.org/pdf/2202.01722.pdf

Evolution of coronal mass ejections and the corresponding Forbush decreases: modelling vs multi-spacecraft observations

Mateja **Dumbović**, Bojan Vršnak, Jingnan Guo, Bernd Heber, Karin Dissauer, Fernando Carcaboso, Manuela Temmer, Astrid Veronig, Tatiana Podladchikova, Christian Möstl, Tanja Amerstorfer, Anamarija Kirin
Solar Phys. **2020**
https://arxiv.org/pdf/2006.02253.pdf

The Effects of Uncertainty in Initial CME Input Parameters on Deflection, Rotation, Bz, and Arrival Time Predictions
C. **Kay** , N. Gopalswamy
JGR v. 123 September **2018** Pages 7220-7240
sci-hub.tw/10.1029/2018JA025780

Opening a Window on ICME-driven GCR Modulation in the Inner Solar System
Reka M. **Winslow**1, Nathan A. Schwadron1, Noé Lugaz1, Jingnan Guo2, Colin J. Joyce1,Andrew P. Jordan1, Jody K. Wilson1, Harlan E. Spence1, David J. Lawrence3
2018 ApJ 856 139
http://sci-hub.tw/http://iopscience.iop.org/0004-637X/856/2/139/

Statistical Study of Network Jets Observed in the Solar Transition Region: a Comparison Between Coronal Holes and Quiet-Sun Regions
Nancy **Narang**, Rebecca T. Arbacher, Hui Tian, Dipankar Banerjee , Steven R. Cranmer, Ed E. DeLuca, Sean McKillop
Solar Phys. **2016**
http://arxiv.org/pdf/1604.06295v1.pdf

Chromospheric sunspots in millimeter range as observed by Nobeyama Radioheliograph
Kazumasa **Iwai**, Hideki Koshiishi, Kiyoto Shibasaki, Satoshi Nozawa, Shun Miyawaki, Takuro Yoneya
ApJ **201**5
http://arxiv.org/pdf/1511.08991v1.pdf

Observation of Chromospheric Sunspot at Millimeter Range with the Nobeyama 45 m Telescope
Kazumasa **Iwai**, Masumi Shimojo
ApJ **2015**
http://arxiv.org/ftp/arxiv/papers/1503/1503.00096.pdf

13 Feb

Automatic detection technique for solar filament oscillations in GONG data
M. **Luna**1,2, J. R. Mérou Mestre1,2 and F. Auchère3
A&A 666, A195 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/10/aa44181-22.pdf
https://arxiv.org/pdf/2209.05087.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

Study of reconnection rates and light curves in solar flares from low and mid chromosphere
G **Sindhuja** Nandita Srivastava A M Veronig W Pötzi
Monthly Notices of the Royal Astronomical Society, Volume 482, Issue 3, 21 January **2019**, Pages 3744–3756
sci-hub.tw/10.1093/mnras/sty2887

Solar Ultraviolet Bursts **Review**
Peter R. **Young**, Hui Tian, Hardi Peter, Robert J. Rutten, Chris J. Nelson, Zhenghua Huang, ...
Space Science Reviews December **2018**, 214:120
https://link.springer.com/content/pdf/10.1007%2Fs11214-018-0551-0.pdf

Statistical Study of Chromospheric Evaporation in Impulsive Phase of Solar Flares
Viacheslav M **Sadykov**, Alexander G Kosovichev, Ivan N Sharykin, Graham S Kerr
ApJ **2018**
https://arxiv.org/pdf/1805.10729.pdf

GONG Catalog of Solar Filament Oscillations Near Solar Maximum
Manuel **Luna**, Judith Karpen, José Luís Ballester, Karin Muglach, Jaume Terradas, Therese Kucera, Holly Gilbert
Astrophysical Journal Supplement Series **2018**
https://arxiv.org/pdf/1804.03743.pdf

IRIS Observations of the Mg II h & k Lines During a Solar Flare
Graham S. **Kerr**, Paulo J.A. Simões, Jiong Qiu, Lyndsay Fletcher
A&A **2015**
http://arxiv.org/pdf/1508.03813v1.pdf

14 Feb - ~05-07 UTи позже: заметная западная эрупция; крупный CME

The magnetic origin of the mystery of rare Hα Moreton waves
Ze **Zhong**, Yao Chen, Y.W. Ni, P. F. Chen, Ruisheng Zheng, Xiangliang Kong, Chuan Li
ApJ **2024**
https://arxiv.org/pdf/2412.19984

The "SEP Clock": A Discussion of First Proton Arrival Times in Wide-Spread Solar Energetic Particle Events.
Posner, A., Richardson, I.G. & Strauss, R.DT.
Sol Phys 299, 126 (**2024**).
https://doi.org/10.1007/s11207-024-02350-7
https://link.springer.com/content/pdf/10.1007/s11207-024-02350-7.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

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

OBSERVATIONS OF SMALL-SCALE ENERGETIC EVENTS IN THE SOLAR TRANSITION REGION: EXPLOSIVE EVENTS, UV BURSTS, AND NETWORK JETS
Zhenghua **Huang**, Bo Li, Lidong Xia.
Solar-Terrestrial Physics. **2019**. Vol. 5. Iss. 2, pp. 58–68
Solnechno-zemnaya fizika, 2019, Vol. 5. Iss. 2. P. 63–73
https://naukaru.ru/en/storage/view/36901

Study of reconnection rates and light curves in solar flares from low and mid chromosphere

G **Sindhuja** Nandita Srivastava A M Veronig W Pötzi
Monthly Notices of the Royal Astronomical Society, Volume 482, Issue 3, 21 January **2019**, Pages 3744–3756
sci-hub.tw/10.1093/mnras/sty2887

Statistical Properties of Photospheric Magnetic Elements Observed by SDO/HMI
Mohsen **Javaherian**, Hossein Safari, Neda Dadashi, Markus Josef Aschwanden
Solar Phys. **2017**
https://arxiv.org/pdf/1707.09291.pdf

Light Bridge in a Developing Active Region. I. Observation of Light Bridge and its Dynamic Activity Phenomena
Shin **Toriumi**, Yukio Katsukawa, Mark C. M. Cheung
ApJ **2015**
http://arxiv.org/pdf/1509.00183v1.pdf

14 Feb – 5 March
Monitoring, analysis and post-casting of the Earth's particle radiation environment during February 14–March 5, 2014
Vladimir **Kalegaev**1*, Mikhail Panasyuk1, Irina Myagkova1, Yulia Shugay1, Natalia Vlasova1, Wera Barinova1, Evgenia Beresneva1, Sergey Bobrovnikov1, Valery Eremeev1, Sergey Dolenko1, Ilya Nazarkov1, Minh Nguyen1 and Arnaud Prost2
J. Space Weather Space Clim. **2019**, 9, A29
https://www.swsc-journal.org/articles/swsc/pdf/2019/01/swsc180008.pdf

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

Ring of Stations Method in Cosmic Rays Variations Research
M. A. **Abunina**, A. V. Belov, E. A. Eroshenko, A. A. Abunin, V. G. Yanke, A. A. Melkumyan, N. S. Shlyk & I. I. Pryamushkina
Solar Physics volume 295, Article number: 69 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01639-7.pdf

Using Forbush decreases to derive the transit time of ICMEs propagating from 1 AU to Mars
Johan L. Freiherr **von Forstner,** Jingnan Guo, Robert F. Wimmer-Schweingruber, Donald M. Hassler, Manuela Temmer, Mateja Dumbović, Lan K. Jian, Jan K. Appel, Jaša Čalogović, Bent Ehresmann, Bernd Heber, Henning Lohf, Arik Posner, Christian T. Steigies, Bojan Vršnak, Cary J. Zeitlin
JGR **2017**
https://arxiv.org/pdf/1712.07301.pdf

15-16 Feb - Three CMEs are heading for Earth. Individually they are minor clouds. However, by striking Earth's magnetic field in quick succession on Feb 14-15, they could cause significant geomagnetic activity around the poles.
The first two CMEs, which left the sun on Feb. 11th, have probably merged in transit to form a single "cannibal CME" more potent than either of its constituents. The third CME, launched on Feb. 12th, is following close on their heels.
As expected a "cannibal CME" hit Earth's magnetic field on Feb. 15th at 1300 UT.
Сильное положительное возрастание Dst~49 нТл; сильный Форбуш.

Refined Modeling of Geoeffective Fast Halo CMEs During Solar Cycle 24
E. **Yordanova**, M. Temmer, M. Dumbović, C. Scolini, E. Paouris, A. L. E. Werner, A. P. Dimmock, L. Sorriso-Valvo

Space Weather Volume22, Issue1 e2023SW003497 **2024**
https://doi.org/10.1029/2023SW003497
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2023SW003497

Successive occurrences of quasi-circular ribbon flares in a fan-spine-like configuration involving hyperbolic flux tube
Prabir K. **Mitra** (USO/PRL), Bhuwan Joshi (USO/PRL)
MNRAS **2021**
https://arxiv.org/pdf/2101.08164.pdf

Understanding the twist distribution inside magnetic flux ropes by anatomizing an interplanetary magnetic cloud
Yuming **Wang**, Chenglong Shen, Rui Liu, Jiajia Liu, Jingnan Guo, Xiaolei Li, Mengjiao Xu, Qiang Hu, Tielong Zhang
JGR **2018**
https://arxiv.org/pdf/1803.01353.pdf

15-22 Feb
Outer Van Allen Radiation Belt Response to Interacting Interplanetary Coronal Mass Ejections
E. K. J. **Kilpua**, D. L. Turner, A. N. Jaynes, H. Hietala, H. E. J. Koskinen, A. Osmane, M. Palmroth, T. I. Pulkkinen, R. Vainio, D. Baker, S. G. Claudepierre
JGR Volume124, Issue3 March **2019** Pages 1927-1947
sci-hub.se/10.1029/2018JA026238

16 Feb – 09:26: очень импульсная вспышка M1.1/SN (S11E01), сильные *дм*, S9~410

Multi spacecraft study with the Icarus model: Modelling the propagation of CMEs to Mercury and Earth
Tinatin **Baratashvili**, Benjamin Grison, Brigitte Schmieder, Pascal Demoulin, Stefaan Poedts
A&A **2024**
https://arxiv.org/pdf/2405.17988

Data-constrained 3D modeling of a solar flare evolution: acceleration, transport, heating, and energy budget
Gregory D. **Fleishman**, Gelu M. Nita, Galina G. Motorina
ApJ **2023**
https://arxiv.org/pdf/2308.00149.pdf

Investigation of two coronal mass ejections from circular ribbon source region: Origin, Sun-Earth propagation and Geo-effectiveness
Syed **Ibrahim**, Wahab Uddin, Bhuwan Joshi, Ramesh Chandra, Arun Kumar Awasthi
Research in Astronomy and Astrophysics **2021**
https://arxiv.org/pdf/2110.06547.pdf

Energy budget of plasma motions, heating, and electron acceleration in a three-loop solar flare
Gregory D. **Fleishman**, Lucia Kleint, Galina G. Motorina, Gelu M. Nita, Eduard P. Kontar
ApJ **913** 97 **2021**
https://arxiv.org/pdf/2104.00811.pdf **File**
https://doi.org/10.3847/1538-4357/abf495
SOL**2014-02-16**T064620

New types of the chromospheric anemone microflares: Case study
Yu. V. **Dumin**, B. V. Somov
A&A **2019**

https://arxiv.org/pdf/1904.09439.pdf

Transition region bright dots in active regions observed by the Interface Region Imaging Spectrograph
Zhenyong **Hou**, Zhenghua Huang, Lidong Xia, Bo Li, Maria S. Madjarska, Hui Fu
AIP Conference Proceedings **2018**
https://arxiv.org/pdf/1803.08294.pdf

Observations of upward propagating waves in the transition region and corona above Sunspots
Zhenyong **Hou**, Zhenghua Huang, Lidong Xia, Bo Li, Hui Fu
ApJ **2018**
https://arxiv.org/pdf/1801.07515.pdf

Narrow-line-width UV bursts in the transition region above Sunspots observed by IRIS
Zhenyong **Hou**, Zhenghua Huang, Lidong Xia, Bo Li, Maria S. Madjarska, Hui Fu, Chaozhou Mou, Haixia Xie
ApJL **2016**
http://arxiv.org/pdf/1608.04892v1.pdf

Stopping Frequency of Type III Solar Radio Bursts in Expanding Magnetic Flux Tubes
Hamish A. S. **Reid**, Eduard P. Kontar
A&A **2015**
http://arxiv.org/pdf/1503.03395v1.pdf

17 Feb - 04:50 UT, a magnetic filament erupted from the sun's western limb
~03 UT: C6.6/1F вспышка и эрупция in AR 11977 near center disk (S14W05) с небольшими диммингами, но значительной аркадой; A small CME was observed in STEREO imagery

Generation and annihilation of three dimensional magnetic nulls in extrapolated solar coronal magnetic field: Data-based Implicit Large Eddy Simulation
Yogesh Kumar **Maurya** (1 and 2), Ramit Bhattacharyya (1), David I. Pontin (3)
2024
https://arxiv.org/pdf/2404.12034.pdf

Interaction of a coronal mass ejection and a stream interaction region: A case study
Paul **Geyer**1, Mateja Dumbović1, Manuela Temmer2, Astrid Veronig2, Karin Dissauer3 and Bojan Vršnak1
A&A 672, A168 (**2023**)
https://doi.org/10.1051/0004-6361/202245433
https://www.aanda.org/articles/aa/pdf/2023/04/aa45433-22.pdf

Solar Irradiance Variability Due To Solar Flares Observed in Lyman-alpha Emission
Ryan O. **Milligan**
Solar Phys. **2021**
https://arxiv.org/pdf/2102.00974.pdf

Monitoring, analysis and post-casting of the Earth's particle radiation environment during February 14–March 5, 2014
Vladimir **Kalegaev**1*, Mikhail Panasyuk1, Irina Myagkova1, Yulia Shugay1, Natalia Vlasova1, Wera Barinova1, Evgenia Beresneva1, Sergey Bobrovnikov1, Valery Eremeev1, Sergey Dolenko1, Ilya Nazarkov1, Minh Nguyen1 and Arnaud Prost2
J. Space Weather Space Clim. **2019**, 9, A29
https://www.swsc-journal.org/articles/swsc/pdf/2019/01/swsc180008.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

18 Feb – значительная эрупция SE волокна
An asymmetric full halo CME was observed after a filament eruption in the southeast quadrant.

18-20 Feb
Magnetospheric transmissivity for cosmic rays during selected recent events with interplanetary/geomagnetic disturbances
Parnahaj, I. ; Bobík, P. ; Kudela, K.
Journal of Physics: Conference Series, Volume 632, Issue 1, article id. 012064 (**2015**).

19 Feb – серьёзная геомагнитная буря Dst~-123 nT, возможно, от эрупции 14-ого (не исключено, что от 17-ого?)
A filament eruption in the southern hemisphere began at 15h UTC. STEREO and LASCO imagery indicate that a faint partial halo CME was launched.

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

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

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J. Space Weather Space Clim. **2019**, 9, A29
https://www.swsc-journal.org/articles/swsc/pdf/2019/01/swsc180008.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

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

On the temporal evolution of spicules observed with IRIS, SDO and Hinode
H. **Skogsrud**, L. Rouppe van der Voort, B. De Pontieu, T. M. D. Pereira
ApJ **2015**
http://arxiv.org/pdf/1505.02525v1.pdf

19 Feb-4 Mar

Comparison of JPL and ESP Solar Proton Fluence Models Using the Background-Subtracted RDSv2.0 Data Set

B. X. **Zhu**, K. Whitman, I. Jun, J. M. Ratliff

Space Weather Volume21, Issue3 e2022SW003311 **2023**

https://doi.org/10.1029/2022SW003311

https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2022SW003311

20 Feb -08:16: M3.0 **пересвет** A=17*2/313= 0,11 ←16s 8s→ **08:01** 16*2/313= 0,102

20 Feb залимбовый пересвет 04:16 ←16s 8s→ B=28/281=0.1 <0.2 не берём

Рядом меньше

20 Feb – ещё одна серьёзная геомагнитная буря Dst~-95 ; сильный Форбуш.

A stronger solar wind shock was observed at SOHO at 03:14 UTC on February 20, the arrival of the CME observed on February 18.

03:35 – восточная C3.3/SF вспышка (S14E38), расщеплённый II тип, faint asymmetric full halo CME;

~07:56 – западная M3/SN вспышка в AR1976 (S15W73), S5~500, многокомпонентный II тип, протоны, J10~13

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

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J. Space Weather Space Clim. **2019**, 9, A29

https://www.swsc-journal.org/articles/swsc/pdf/2019/01/swsc180008.pdf

Transient Mass Loss Analysis of Solar Observations using Stellar Methods

M. K. **Crosley**, R. A. Osten, C. Norman

2017

https://arxiv.org/pdf/1707.01928.pdf

Energy dependence of SEP electron and proton onset times

H. **Xie**, P. Mäkelä, N. Gopalswamy, O. C. St. Cyr

JGR Volume 121, Issue 7 July **2016** Pages 6168–6183

http://arxiv.org/pdf/1609.08171v1.pdf

Observations of Near-Simultaneous Split-Band Solar type-II Radio Bursts at Low Frequencies

Hariharan **Krishnan**_y1, Ramesh Rz , and Kathiravan C

CESRA **2016**, p.97

http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v3.pdf

Observations of Near-Simultaneous Split-Band Solar Type-II Radio Bursts at Low Frequencies

K. **Hariharan**, R. Ramesh, C. Kathiravan
Solar Physics September **2015**, Volume 290, Issue 9, pp 2479-2489

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**

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

21 Feb залимбовый пересвет 16:16 ←16s 8s→ A=41/314=0.13 <0.2 не берём
8s→ 15:56 A=30*2/314=0.19

21 Feb
Propagating Disturbances in The Solar Corona and Spicular Connection
Tanmoy **Samanta**, Vaibhav Pant, Dipankar Banerjee
ApJL **201**5
http://arxiv.org/pdf/1511.07354v1.pdf

On the temporal evolution of spicules observed with IRIS, SDO and Hinode
H. **Skogsrud**, L. Rouppe van der Voort, B. De Pontieu, T. M. D. Pereira
ApJ **2015**
http://arxiv.org/pdf/1505.02525v1.pdf

An Interface Region Imaging Spectrograph first view on Solar Spicules
T. M. D. **Pereira**, B. De Pontieu, M. Carlsson, V. Hansteen, T. D. Tarbell, J. Lemen, A. Title, P. Boerner, N. Hurlburt, J. P. Wülser, J. Martínez-Sykora, L. Kleint, L. Golub, S. McKillop, K. K. Reeves, S. Saar, P. Testa, H. Tian, S. Jaeggli, C. Kankelborg
ApJL, **2014**
http://arxiv.org/pdf/1407.6360v1.pdf

22 Feb – небольшая буря Dst~- 66 nT на фоне

Monitoring, analysis and post-casting of the Earth's particle radiation environment during February 14–March 5, 2014
Vladimir **Kalegaev**1*, Mikhail Panasyuk1, Irina Myagkova1, Yulia Shugay1, Natalia Vlasova1, Wera Barinova1, Evgenia Beresneva1, Sergey Bobrovnikov1, Valery Eremeev1, Sergey Dolenko1, Ilya Nazarkov1, Minh Nguyen1 and Arnaud Prost2
J. Space Weather Space Clim. **2019**, 9, A29
https://www.swsc-journal.org/articles/swsc/pdf/2019/01/swsc180008.pdf

23 Feb

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

IRIS observations short-term variability in moss associated with transient hot coronal loops
Paola **Testa** , Vanessa Polito , Bart De Pontieu
ApJ **2019**
https://arxiv.org/pdf/1910.08201.pdf

23-24 Feb – ещё буря Dst~- 59 nT

24 Feb -11:11: M1.2 вспышка, пересвет виден только на картинке, обработанной Гречневым.

B=0,07
24 Feb -12:16: M1.3 **пересвет** B=9*2/281=0,06 ←16s 8s→ 12:06 6*2/281=0,043
B events неправильные координаты

24 Feb

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

Challenges with Extreme Class-Imbalance and Temporal Coherence: A Study on Solar Flare Data
Azim **Ahmadzadeh**, Maxwell Hostetter, Berkay Aydin, Manolis K. Georgoulis, Dustin J. Kempton, Sushant S. Mahajan, Rafal A. Angryk
IEEE BigData **2019**
https://arxiv.org/pdf/1911.09061.pdf

IRIS Observations of Spicules and Structures Near the Solar Limb
C. E. **Alissandrakis**, J.-C. Vial, A. Koukras, E. Buchlin, M. Chane-Yook
Solar Phys. **2018**
https://arxiv.org/pdf/1801.02082.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**

25 Feb – 00:51 – X4.9 **вспышка; большой пересвет на STEREO-B : B=**78*2/281=0,56
В 00:56 появляется двойная (ИЛЛЮСТРАЦИЯ) тогда B=33/77=0,429
Sustained Gamma

Шарыкин Plasma-22

Thermal Properties of Current Sheet Plasmas in Solar Flares
Tingyu **Gou**, Katharine K. Reeves
ApJ **2024**
https://arxiv.org/pdf/2407.01833

Type III Radio Bursts from Solar Eruptions and their Connection to GLE and SGRE Events
Nat **Gopalswamy**, Anshu Kumari, Pertti A. Mäkelä
Proceedings of the URSI GASS 2023, Sapporo, Japan, 19 to 26 August 2023 **2023**
https://arxiv.org/ftp/arxiv/papers/2308/2308.11779.pdf **File**

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

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

Categorization of Coronal Mass Ejection Driven Sheath Regions: Characteristics of STEREO Events
T. M. **Salman**, N. Lugaz, R. M. Winslow, C. J. Farrugia, L. K. Jian, A. B. Galvin
ApJ **2021**
https://arxiv.org/pdf/2106.12076.pdf

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

ОСОБЕННОСТИ НАЧАЛЬНОЙ СТАДИИ ФОРМИРОВАНИЯ БЫСТРОГО КОРОНАЛЬНОГО ВЫБРОСА МАССЫ 25 ФЕВРАЛЯ 2014 Г

ЕСЕЛЕВИЧ В.Г.1, ЕСЕЛЕВИЧ М.В.1
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том: 6Номер: 3 Год: **2020** Страницы: 3-17

Monitoring, analysis and post-casting of the Earth's particle radiation environment during February 14–March 5, 2014
Vladimir **Kalegaev**1*, Mikhail Panasyuk1, Irina Myagkova1, Yulia Shugay1, Natalia Vlasova1, Wera Barinova1, Evgenia Beresneva1, Sergey Bobrovnikov1, Valery Eremeev1, Sergey Dolenko1, Ilya Nazarkov1, Minh Nguyen1 and Arnaud Prost2
J. Space Weather Space Clim. **2019**, 9, A29
https://www.swsc-journal.org/articles/swsc/pdf/2019/01/swsc180008.pdf

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

DESAT: an SSW tool for SDO/AIA image de-saturation
Richard A **Schwartz**, Gabriele Torre, Anna Maria Massone, Michele Piana
Inverse Problems, **2015**
http://arxiv.org/pdf/1503.02302v1.pdf

25 Feb – 00:49: мощная восточная (S12E82) LDE вспышка X4.9/2B, с жестким радио S15~21000, fast partial halo CME; длительные протоны Prolonged gamma

Simulation of solar energetic particle events originated from coronal mass ejection shocks with a data-driven physics-based transport model
Lei **Cheng**, Ming Zhang, Ryun Young Kwon, David Lario
ApJ **2024**
https://arxiv.org/pdf/2411.04095

The Center-to-Limb Variation of Non-Thermal Velocities using IRIS Si IV
Yamini K. **Rao**, Giulio Del Zanna, Helen E. Mason
MNRAS, **2022**
https://arxiv.org/pdf/2201.07290.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

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

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

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

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

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

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

Understanding the Origin of Variable Compositions of Gradual Solar Energetic Particle Events by Combining Observations and Numerical Simulations
Nariaki **Nitta**1, Meng Jin1,2 ,Christina Cohen3
ECU2020 Presentation #21333

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

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
http://sf2a.eu/proceedings/2019/2019/vilmer.pdf

Gamma-ray lines in solar flares with proton spectra measured by PAMELA experiment
A L **Lysenko**1, E A Bogomolov1, G I Vasiliev1 and E P Ovchinnikova1
Journal of Physics: Conference Series, Volume 1400, Issue 2 (**2019**) 022042
https://iopscience.iop.org/article/10.1088/1742-6596/1400/2/022042/pdf

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

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

Monitoring, analysis and post-casting of the Earth's particle radiation environment during February 14–March 5, 2014
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J. Space Weather Space Clim. **2019**, 9, A29
https://www.swsc-journal.org/articles/swsc/pdf/2019/01/swsc180008.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**

A Machine Learning Dataset Prepared From the NASA Solar Dynamics Observatory Mission

Richard **Galvez**, David F. Fouhey, Meng Jin, Alexandre Szenicer, Andrés Muñoz-Jaramillo, Mark C. M. Cheung, Paul J. Wright, Monica G. Bobra, Yang Liu, James Mason, Rajat Thomas
ApJ Supplement Series **2019**
https://arxiv.org/pdf/1903.04538.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**

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

Catalogue of >55 MeV Wide-longitude Solar Proton Events Observed by SOHO, ACE, and the STEREOs at ≈1≈1 AU During 2009 – 2016
Miikka **Paassilta**, Athanasios Papaioannou, Nina Dresing, Rami Vainio…
Solar Physics April **2018**, 293:70
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1284-7.pdf

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

Modelling Quasi-Periodic Pulsations in Solar and Stellar Flares **Review**
J. A. **McLaughlin**, V. M. Nakariakov, M. Dominique, P. Jelínek, S. Takasao
Space Science Reviews February **2018**, 214:45
https://link.springer.com/content/pdf/10.1007%2Fs11214-018-0478-5.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

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**

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/

Characterizing Solar Energetic Particle Event Profiles with Two-Parameter Fits
Stephen W. **Kahler**, Alan G. Ling
Solar Physics April **2017**, 292:59

http://link.springer.com/content/pdf/10.1007%2Fs11207-017-1085-4.pdf

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

Observations of the Formation, Development, and Structure of a Current Sheet in an Eruptive Solar Flare
Daniel B. **Seaton**, Allison E. Bartz, Jonathan M. Darnel
2017 ApJ 835 139
https://arxiv.org/pdf/1610.06905v1.pdf

Time Evolution of Elemental Ratios in Solar Energetic Particle events
P. **Zelina**, S. Dalla, C. M. S. Cohen, R. A. Mewaldt
ApJ **2016**
https://arxiv.org/pdf/1612.00758v1.pdf

Unexpected spatial intensity distributions and onset timing of solar electron events observed by closely spaced STEREO spacecraft
A. **Klassen**1, N. Dresing1, R. Gomez-Herrero2, B. Heber1, R. Muller-Mellin1
A&A **2016**
http://www.ieap.uni-kiel.de/et/people/klassen/Klassen_28734.pdf

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

LONGITUDINAL PROPERTIES OF A WIDESPREAD SOLAR ENERGETIC PARTICLE EVENT ON 2014 FEBRUARY 25: EVOLUTION OF THE ASSOCIATED CME SHOCK
D. **Lario**1, R.-Y. Kwon1,2, A. Vourlidas1, N. E. Raouafi1, D. K. Haggerty1, G. C. Ho1, B. J. Anderson1, A. Papaioannou3, R. Gómez-Herrero4, N. Dresing5
2016 ApJ 819 72

НАБЛЮДЕНИЯ ДИНАМИЧЕСКИХ СОБЫТИЙ НА СОЛНЦЕ В ЦЕНТРЕ И КРЫЛЬЯХ СПЕКТРАЛЬНЫХ ЛИНИЙ ВИДИМОГО, УФ И РЕНТГЕНОВСКОГО ДИАПАЗОНОВ
Дормидонтов Д.В., Пащенко М.П., Тлатов А.Г., Чернов Я.О.
Пулково *«Солнечная и солнечно-земная физика – **2015**», с.125*

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

Soft X-ray Pulsations in Solar Flares
Paulo J. A. **Simões**, Hugh S. Hudson, Lyndsay Fletcher
Solar Phys. **2015**
http://arxiv.org/pdf/1412.3045v1.pdf

The energetics of a global shock wave in the low solar corona
David M. **Long**, Deborah Baker, David R. Williams, Eoin P. Carley, Peter T. Gallagher, Pietro Zucca

ApJ **2015**
http://arxiv.org/pdf/1412.2964v1.pdf **File**

Direct Observations of Tether-cutting Reconnection During a Major Solar Event From 2014 February 24 to 25
Huadong **Chen**, Jun Zhang, Xin Cheng, Suli Ma, Shuhong Yang, Ting Li
ApJL, **2014**
http://arxiv.org/pdf/1411.4454v1.pdf

A Wonderful Cycle 24 Flare
Sa"m **Krucker** and Hugh Hudson
RHESSI Science Nugget, No. 2020, **2014**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/A_Wonderful_Cycle_24_Flare

25-28 Feb

Observations of Slow Solar Wind from Equatorial Coronal Holes
Y.-M. **Wang** and Y.-K. Ko
2019 ApJ 880 146
sci-hub.se/10.3847/1538-4357/ab2add

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

27 Feb

Chapter 24 - Recent Geoeffective Space Weather Events and Technological System Impacts **Review**
Robert J. **Redmon***William F.Denig*Paul T.M.Loto'aniu*†DominicFuller-Rowell
In: Extreme Events in Geospace Origins, Predictability, and Consequences **2018**, Pages 587-609
http://sci-hub.tw/10.1016/B978-0-12-812700-1.00024-8

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

27-28 Feb – геомагнитная буря Dst ~-102 и приличный форбуш от the glancing impact of a CME of 25th

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

Monitoring, analysis and post-casting of the Earth's particle radiation environment during February 14–March 5, 2014
Vladimir **Kalegaev**1*, Mikhail Panasyuk1, Irina Myagkova1, Yulia Shugay1, Natalia Vlasova1, Wera Barinova1, Evgenia Beresneva1, Sergey Bobrovnikov1, Valery Eremeev1, Sergey Dolenko1, Ilya Nazarkov1, Minh Nguyen1 and Arnaud Prost2
J. Space Weather Space Clim. **2019**, 9, A29
https://www.swsc-journal.org/articles/swsc/pdf/2019/01/swsc180008.pdf

Magnetospheric transmissivity for cosmic rays during selected recent events with interplanetary/geomagnetic disturbances
Parnahaj, I. ; Bobík, P. ; Kudela, K.
Journal of Physics: Conference Series, Volume 632, Issue 1, article id. 012064 (**2015**).

28 Feb – 10:16: C8.0 **пересвет** A=19*2/314=0.12 ←16s 8s→ 19/314=0.061

1 March, 13:36: M1.1 **пересвет** на STEREO-A A=0,12 По линейным изображениям

2 March, 23:21: M1.1 **пересвет** на STEREO-A A=16*2/313=0,1

4 March - AR 11986 behind the northwest limb was quite active during the day and produced a number of C flares including C7.6 at 11:24 and a long duration C5.5 event peaking at 18:35 UTC (**пересвет** на STEREO-A,B).

Solar Ultraviolet Bursts **Review**
Peter R. **Young**, Hui Tian, Hardi Peter, Robert J. Rutten, Chris J. Nelson, Zhenghua Huang, ...
Space Science Reviews December **2018**, 214:120
https://link.springer.com/content/pdf/10.1007%2Fs11214-018-0551-0.pdf

Observation and Modeling of Chromospheric Evaporation in a Coronal Loop Related to Active Region Transient Brightening
G. R. **Gupta**, Aveek Sarkar, Durgesh Tripathi
ApJ **2018**
https://arxiv.org/pdf/1803.11172.pdf

IRIS and SDO observation of recurrent explosive events
G. R. **Gupta**, Durgesh Tripathi
ApJ **2015**
http://arxiv.org/pdf/1506.05327v1.pdf

5 March, 13:26: большой **пересвет** на STEREO-A,B и значительная корональная волна

5 March

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

Energy Partition in Four Confined Circular-Ribbon Flares
Z. M. **Cai**, Q. M. Zhang, Z. J. Ning, Y. N. Su, H. S. Ji
Solar Phys. **2021**
https://arxiv.org/pdf/2102.09819.pdf

The origin of quasi-periodicities during circular ribbon flares
L. K. **Kashapova**, E. G. Kupriyanova, Z. Xu, H. A. S. Reid, D. Y. Kolotkov
A&A **2020**
https://warwick.ac.uk/fac/sci/physics/research/cfsa/people/kolotkov/eprints/kashapova_et_al_arxiv.pdf

Transverse coronal loop oscillations excited by homologous circular-ribbon flares
Q. M. **Zhang**, J. Dai, Z. Xu, D. Li, L. Lu, K. V. Tam, A. A. Xu
A&A **2020**

https://arxiv.org/pdf/2005.02067.pdf

Homologous Circular-ribbon Flares Driven by Twisted Flux Emergence
Z. **Xu**1, K. Yang2, Y. Guo2, J. Zhao3, Z. J. Zhao1, and L. Kashapova
2017 ApJ 851 30
http://sci-hub.tw/10.3847/1538-4357/aa9995

Undercover EUV Solar Jets Observed by the Interface Region Imaging Spectrograph
N.-H. **Chen**, D. E. Innes
ApJ **2016**
https://arxiv.org/pdf/1610.08149v1.pdf

The formation of IRIS diagnostics VIII. IRIS observations in the C II 133.5 nm multiplet
Bhavna **Rathore**, Tiago M. D. Pereira, Mats Carlsson, Bart De Pontieu
ApJ **2015**
http://arxiv.org/pdf/1510.04845v1.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**

6 March, залимбовый пересвет 12:16 ←16s 8s→ A=75/313=0.24
8s→ 12:21 A=52.5*2/313=**0.34**

6 March, **ещё один** залимбовый пересвет 12:16 ←16s 8s→ B=33/283=0.12 <0.2 не берём

6 March См. наш спектр со II типом

Coronal Signatures of Flare Generated Fast Mode Wave at EUV and Radio wavelengths
V. **Vasanth**
Solar Phys. **2024**
https://arxiv.org/pdf/2404.00135.pdf

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**

Quantifying the Magnetic Structure of a Coronal Shock Producing a Type II Radio Burst
W. **Su**, T.M. Li, X. Cheng, L. Feng, P.J. Zhang, P.F. Chen, M. D. Ding, L. J. Chen, Y. Guo, Y. Wang, D. Li, L. Y. Zhang
ApJ **2022**
https://arxiv.org/pdf/2203.11042.pdf

Observations of a Flare-Generated Blast Wave in a Pseudo Coronal Mass Ejection Event
V. G. **Eselevich**, M. V. Eselevich, I. V. Zimovets,
Solar Physics June **2019**, 294:73
sci-hub.se/10.1007/s11207-019-1467-x

Partial Reflection and Trapping of a Fast-mode Wave in Solar Coronal Arcade Loops
Pankaj **Kumar**, D.E. Innes
ApJL **2015**

http://arxiv.org/pdf/1503.08165v1.pdf

8 March

Photospheric Flow Field Related to the Evolution of the Sun's Polar Magnetic Patches Observed by Hinode SOT

Anjali John **Kaithakka**l, Y. Suematsu, M. Kubo, Y. Iida, D. Shiota, S. Tsuneta

ApJ, **2015**

http://arxiv.org/pdf/1412.8023v1.pdf

9 March

Interaction between an emerging flux region and a pre-existing fan-spine dome observed by IRIS and SDO

Fayu **Jiang**, Jun Zhang, Shuhong Yang

Publications of the Astronomical Society of Japan **2015**

http://arxiv.org/pdf/1503.04505v2.pdf

10 March - >19 UT: SE эрупция (волокна, проходящего через АО)

Narrow-line-width UV bursts in the transition region above Sunspots observed by IRIS

Zhenyong **Hou**, Zhenghua Huang, Lidong Xia, Bo Li, Maria S. Madjarska, Hui Fu, Chaozhou Mou, Haixia Xie

ApJL **2016**

http://arxiv.org/pdf/1608.04892v1.pdf

11March – 12:16: M1.7, W90 **пересвет** A=38*2/313=0,24 ←16s 8s→ A=38/313=0,121

11 March

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

11 March=Apr 7

Observations of Slow Solar Wind from Equatorial Coronal Holes

Y.-M. **Wang** and Y.-K. Ko

2019 ApJ 880 146

sci-hub.se/10.3847/1538-4357/ab2add

12 March – 11:06: M2.5 вспышка, **пересвет** на STEREO-A, A=26*2/313=0,17
22:35: M9.3 вспышка, **пересвет** на STEREO-A, A=80*2/313=0,51

12 March – небольшой форбуш; геомагн. буря
- 22:34: короткая M9.3/SB вспышка из западной АО (N15W78), S15~360, без метров, без протонов

Detection of Extreme and Exceptional Langmuir Wave Packets in Solar Type III Radio Bursts

G. **Thejappa**, R. J. MacDowall

JGR Volume125, Issue6 June **2020** e2019JA027714

sci-hub.tw/10.1029/2019JA027714

12-14 March

The formation of an atypical sunspot light bridge as a result of large-scale flux emergence

Rohan E. **Louis**, Christian Beck, Debi P. Choudhary

ApJ **2020**
https://arxiv.org/pdf/2010.14085.pdf

13 March – 19:25: M1.2 вспышка, **пересвет** на STEREO-A, A=14*2/313=0,09

13 March - AR 11996 **behind the northwest limb** produced the only noteworthy flare of the day, an **M1.2 flare** at 19:19 UTC. **Снова без протонов**.

A Data-constrained Analysis for Joule Heating as a Solar Active Region Atmosphere Heating Mechanism. I. Sunspot Umbral Light Bridge
M. S. **Yalim**1, M. Frisse1, C. Beck2, D. P. Choudhary3, A. Prasad4, S. S. Nayak1, and G. P. Zank1,5
2024 ApJ 973 58
https://iopscience.iop.org/article/10.3847/1538-4357/ad5e75/pdf

Heating of the solar chromosphere in a sunspot light bridge by electric currents
Rohan E. **Louis**, Avijeet Prasad, Christian Beck, Debi Prasad Choudhary, Mehmet S. Yalim
A&A Lett **2021**
https://arxiv.org/pdf/2107.12066.pdf

Imaging the Sun's Far-Side Active Regions by Applying Multiple Measurement Schemes on Multi-Skip Acoustic Waves
Junwei **Zhao**, Dominick Hing, Ruizhu Chen, Shea Hess Webber
ApJ **2019**
https://arxiv.org/pdf/1912.06736.pdf

15 March

Explosive Chromospheric Evaporation and Warm Rain in a C3.1 Flare Observed by IRIS, Hinode/EIS, and RHESSI
Jeffrey W. **Brosius** and Andrew R. Inglis
2017 ApJ 848 39

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

16 March - **A large filament eruption in the southeast quadrant was observed beginning at 02:12 UTC and have been associated with a large CME. 304 A**

Hinode/EIS measurements of active region magnetic fields
E. **Landi**, R. Hutton, T. Brage, W. Li
2020
https://arxiv.org/pdf/2008.03532.pdf

17 March
The surge-like eruption of a miniature filament associated with circular flare ribbon
Haidong **Li**, Jiayan Yang, Yunchun Jiang, Yi Bi, Zhining Qu, Hechao Chen
Astrophysics and Space Science February **2018**, 363:26
http://sci-hub.tw/10.1007/s10509-017-3244-3

18 March

Radio Observations of Coronal Mass Ejection Initiation and Development in the Low Solar Corona **Review**
Eoin P. **Carley** , Nicole Vilmer and Angelos Vourlidas
Front. Astron. Space Sci. 7:551558. **2020** **File**
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

The NWRA Classification Infrastructure: Description and Extension to the Discriminant Analysis Flare Forecasting System (DAFFS)
K.D. **Leka**, Graham Barnes, Eric L. Wagner
Journal of Space Weather and Space Climate **2018**
https://arxiv.org/pdf/1802.06864.pdf

19 March

Supervised convolutional neural networks for classification of flaring and nonflaring active regions using line-of-sight magnetograms
Shamik **Bhattacharjee**, Rasha Alshehhi, Dattaraj B. Dhuri, Shravan M. Hanasoge
ApJ **2020**
https://arxiv.org/pdf/2005.13333.pdf

Dynamics of subarcsecond bright dots in the transition region above sunspot and their relation to penumbral micro-jets
Tanmoy **Samanta**, Hui Tian, Dipankar Banerjee, Nicole Schanche
ApJL **2017**
https://arxiv.org/pdf/1701.02531v1.pdf

20 March - The region 12014 [S12E75] has displayed increasing activity and was the source of an M1.7 flare at 03:56. AR2010 and AR2014 **combined for double flares/eruptions: взаимодействие через мощную корональную волну, видимую на LASCO далеко над лимбом; CME.**

Mass of prominences experiencing failed eruptions
B. **Filippov**
PASAustralia **2021**
https://arxiv.org/pdf/2103.03634.pdf

Observational Analysis on the Early Evolution of a CME Flux-rope: Pre-flare reconnection and Flux-rope's Footpoint Drift
Hechao **Chen**, Jiayan Yang, Kaifan Ji, Yadan Duan
ApJ **2019**
https://arxiv.org/pdf/1911.00257.pdf

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

21 March
Failed prominence eruptions near 24 cycle maximum
B. **Filippov**
MNRAS **2020**
https://arxiv.org/pdf/2003.12988.pdf

22 March – 07:06: M1.1 вспышка, **пересвет** на STEREO-A, A=11*2/313=0,07

22 March: A partial halo CME was observed after the LDE and eruption in AR 12005 (N13W59)

23 March - around 03:30, the magnetic canopy of sunspot AR2014 [S12E21] became unstable and erupted, producing a long-duration C5-class solar flare. This event was associated with an asymmetric full halo CME.

A quasi-periodic fast-propagating magnetosonic wave associated with the eruption of a magnetic flux rope
Yuandeng **Shen**, Yu Liu, Tengfei Song, Zhanjun Tian
2017
https://arxiv.org/pdf/1712.09045.pdf

23-28 March
The Origin of Major Solar Activity - Collisional Shearing Between Nonconjugated Polarities of Multiple Bipoles Emerging Within Active Regions
Georgios **Chintzoglou**, Jie Zhang, Mark C. M. Cheung, Maria Kazachenko
ApJ **871** 67 **2019**
https://arxiv.org/pdf/1811.02186.pdf
sci-hub.tw/10.3847/1538-4357/aaef30

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

26 March
Supervised convolutional neural networks for classification of flaring and nonflaring active regions using line-of-sight magnetograms
Shamik **Bhattacharjee**, Rasha Alshehhi, Dattaraj B. Dhuri, Shravan M. Hanasoge
ApJ **2020**
https://arxiv.org/pdf/2005.13333.pdf

26-31 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

28 March – **very impulsive** M2.0 at 19:18, M2.6 at 23:51 UT in AR 12017 [N10W22]. Both flares were accompanied by **coronal waves, type II radio bursts and CMEs** off the northwest limb. Microwaves S9~280 and S9~360, **без протонов**.

The "SEP Clock": A Discussion of First Proton Arrival Times in Wide-Spread Solar Energetic Particle Events.
Posner, A., Richardson, I.G. & Strauss, R.DT.
Sol Phys 299, 126 (**2024**).
https://doi.org/10.1007/s11207-024-02350-7
https://link.springer.com/content/pdf/10.1007/s11207-024-02350-7.pdf

Failed prominence eruptions near 24 cycle maximum
B. **Filippov**
MNRAS **2020**
https://arxiv.org/pdf/2003.12988.pdf

The Formation of CME from Coupling Fan-spine Magnetic System: A Difficult Journey
Haidong **Li**, Jiayan Yang, Junchao Hong, and Hechao Chen
2019 ApJL 886 L34
sci-hub.se/10.3847/2041-8213/ab564e

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

28-29 March

Case studies on pre-eruptive X-class flares using R-value in the lower solar atmosphere
Shreeyesh **Biswal**, Marianna B. Korsós, Manolis K. Georgoulis, Alexander Nindos, Spiros Patsourakos, Robertus Erdélyi
ApJ **2024**
https://arxiv.org/pdf/2408.04018

Evolution of magnetic fields and energy release processes during homologous eruptive flares
Suraj **Sahu** (USO/PRL), Bhuwan Joshi (USO/PRL), Avijeet Prasad (University of Oslo), Kyung-Suk Cho (SSD/KASI)
ApJ **2022**
https://arxiv.org/pdf/2212.04150.pdf

Homologous compact major blowout-eruption solar flares and their production of broad CMEs
Suraj **Sahu**, Bhuwan Joshi, Alphonse C. Sterling, Prabir K. Mitra, Ronald L. Moore
ApJ **2022**
https://arxiv.org/pdf/2203.03954

The Origin of Major Solar Activity - Collisional Shearing Between Nonconjugated Polarities of Multiple Bipoles Emerging Within Active Regions
Georgios **Chintzoglou**, Jie Zhang, Mark C. M. Cheung, Maria Kazachenko
ApJ **2018**
https://arxiv.org/pdf/1811.02186.pdf

Quantifying the Topology and Evolution of a Magnetic Flux Rope Associated with Multi-flare Activities
Kai **Yang**, Yang Guo, M. D. Ding
ApJ **2016**
http://arxiv.org/pdf/1604.07502v1.pdf

28-30 March

The magnetic origin of the mystery of rare Hα Moreton waves
Ze **Zhong**, Yao Chen, Y.W. Ni, P. F. Chen, Ruisheng Zheng, Xiangliang Kong, Chuan Li
ApJ **2024**
https://arxiv.org/pdf/2412.19984

Quantifying the relationship between Moreton-Ramsey waves and "EIT waves" using observations of 4 homologous wave events
David M. **Long**, Jack Jenkins, Gherardo Valori
ApJ **2019**
https://arxiv.org/pdf/1907.07963.pdf

29 March – **утром волоконные эрупции на NW и NE, 304 A, CMEs**
17:48: **импульсная X1/2B вспышка**, N11W32, **хорошая корональная волна**, S9~1100 sfu, II тип, an asymmetric full **halo CME**, **небольшие протоны** J10~2 pfu

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

Properties of Flare-Imminent versus Flare-Quiet Active Regions from the Chromosphere through the Corona I: Introduction of the AIA Active Region Patches (AARPs)
Karin **Dissauer**, KD Leka, Eric L. Wagner
ApJ **2022**
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A window into magnetic reconnection: IRIS observations of the consequences of reconnection during solar flares **Review**
Katharine **Reeves**
Front. Astron. Space Sci. 9: 1041951. **2022**
https://doi.org/10.3389/fspas.2022.1041951
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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
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Brandon **Panos**, Lucia Kleint
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Flux emergence and generation of flare-productive active regions
Shin **Toriumi**
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Self-consistent Nonlinear Force-free Field Reconstruction from Weighted Boundary Conditions
Alpha **Mastrano**, Kai E. Yang, Michael S. Wheatland
Solar Phys. **2020**
https://arxiv.org/pdf/2004.12510.pdf

Electric current evolution at the footpoints of solar eruptions
Krzysztof **Barczynski**, Guillaume Aulanier, Miho Janvier, Brigitte Schmieder, Sophie Masson
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Квазипериодические пульсации в солнечных и звездных вспышках. Обзор **Review**
Куприянова Е.Г., Колотков Д.Ю., Накаряков В.М., Кауфман А.С.
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Estimation of Key Sunquake Parameters through Hydrodynamic Modeling and Cross-Correlation Analysis
John T. **Stefan**, Alexander G. Kosovichev
ApJ **2019**
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A Study of Pre-Flare Solar Coronal Magnetic Fields: Magnetic Flux Ropes
Aiying **Duan**, Chaowei Jiang, Wen He, Xueshang Feng, Peng Zou, Jun Cui
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Dynamic Processes of the Moreton Wave on 2014 March 29
Denis P. **Cabezas**, Ayumi Asai, Kiyoshi Ichimoto, Takahito Sakaue, Satoru UeNo, Jose K. Ishitsuka, Kazunari Shibata
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Modeling Mg II h, k and Triplet Lines at Solar Flare Ribbons
Yingjie **Zhu**, Adam F. Kowalski, Hui Tian, Han Uitenbroek, Mats Carlsson, Joel C. Allred
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Quasi-periodic pulsations in a solar flare with an unusual phase shift
Elena G. **Kupriyanova**, Larisa K. Kashapova, Tom Van Doorsselaere, Partha Chowdhury, Abhishek K. Srivastava, Yong-Jae Moon
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Possible Signatures of a Termination Shock in the 2014 March 29 X-class Flare Observed by IRIS
Vanessa **Polito**1, Giselle Galan2, Katharine K. Reeves1, and Sophie Musset3
2018 ApJ 865 161
sci-hub.tw/10.3847/1538-4357/aadada

Nonlinear force-free modeling of flare-related magnetic field changes at the photosphere and chromosphere
Lucia **Kleint**, Michael S. Wheatland, Alpha Mastrano, Patrick I. McCauley
ApJ **2018**
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Statistical Study of Chromospheric Evaporation in Impulsive Phase of Solar Flares
Viacheslav M **Sadykov**, Alexander G Kosovichev, Ivan N Sharykin, Graham S Kerr
ApJ **2018**
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The Triggering of the 29-March-2014 Filament Eruption
Magnus M. **Woods**, Satoshi Inoue, Louise K. Harra, Sarah A. Matthews, Kanya Kusano, Nadine M. E. Kalmoni
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GONG Catalog of Solar Filament Oscillations Near Solar Maximum
Manuel **Luna**, Judith Karpen, José Luís Ballester, Karin Muglach, Jaume Terradas, Therese Kucera, Holly Gilbert
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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**
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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
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http://iopscience.iop.org.sci-hub.tw/0004-637X/852/1/25/

Parameterizations of Chromospheric Condensations in dG and dMe Model Flare Atmospheres
Adam F. **Kowalski** (1,2,3), Joel C. Allred (4) ((1) University of Colorado, (2) National Solar Observatory, (3) Laboratory for Atmospheric and Space Physics, (4) NASA Goddard Space Flight Center)
ApJ **2017**
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Structure and Dynamics of Cool Flare Loops Observed by the Interface Region Imaging Spectrograph
K. **Mikuła**1, P. Heinzel2, W. Liu2, and A. Berlicki
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A parameter study for modeling MgII h and k emission during solar flares
Fatima Rubio **da Costa**, Lucia Kleint
ApJ **2017**
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On Flare and CME Predictability Based on Sunspot Group Evolution
M. B. **Korsos**,1,2 and M. S. Ruderman2
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Non-Gaussian Velocity Distributions in Solar Flares from Extreme Ultraviolet Lines: A Possible Diagnostic of Ion Acceleration
Natasha L. S. **Jeffrey**, Lyndsay Fletcher, Nicolas Labrosse
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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
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The Atmospheric Response to High Nonthermal Electron Beam Fluxes in Solar Flares I: Modeling the Brightest NUV Footpoints in the X1 Solar Flare of 2014 March 29

Adam F. **Kowalski** (University of Maryland College Park/NASA-GSFC, and University of Colorado Boulder/National Solar Observatory), Joel C. Allred (NASA Goddard Space Flight Center), Adrian N. Daw (NASA Goddard Space Flight Center), Gianna Cauzzi (INAF-Osservatorio Astrofisico di Arcetri), Mats Carlsson (University of Oslo)
ApJ **2016**
http://arxiv.org/pdf/1609.07390v1.pdf

Moreton and EUV Waves Associated with an X1.0 Flare and CME Ejection
Carlos **Francile**, Fernando M. López, Hebe Cremades, Cristina H. Mandrini, María Luisa Luoni, David M. Long
Solar Phys. **2016 File**

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

First Detection of Chromospheric Magnetic Field Changes During an X1-Flare
Lucia **Kleint**
ApJ **2016**
http://arxiv.org/pdf/1608.02552v1.pdf

Data-driven radiative hydrodynamic modeling of SOL2014-03-29
Fatima Rubio **da Costa**
RHESSI Science Nugget No. 274, May **2016**
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Data-driven Radiative Hydrodynamic Modeling of the 2014 March 29 X1.0 Solar Flare
Fatima Rubio **da Costa**, Lucia Kleint, Vahé Petrosian, Wei Liu and Joel C. Allred
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http://arxiv.org/pdf/1603.04951v1.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

The Vertical Current Approximation Nonlinear Force-Free Field Code - Description, Performance Tests, and Measurements of Magnetic Energies Dissipated in Solar Flares
Markus J. **Aschwanden**
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Continuum Enhancements in the Ultraviolet, the Visible and the Infrared during the X1 flare on 2014 March 29
Lucia **Kleint**, Petr Heinzel, Phil Judge, Säm Krucker
ApJ **201**5
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Mg II Lines Observed during the X-class Flare on 29 March 2014 by the Interface Region Imaging Spectrograph
W. **Liu**, P. Heinzel, L. Kleint, J. Kasparova
Solar Phys. **2015**
http://arxiv.org/pdf/1511.00480v1.pdf

On helium line polarization during the impulsive phase of an X1 flare
Philip G. **Judge**, Lucia Kleint, Alberto Sainz-Dalda
ApJ **2015**
http://arxiv.org/pdf/1510.09218v1.pdf

How important are electron beams in driving chromospheric evaporation in the 2014 March 29 flare?
Marina **Battaglia**, Lucia Kleint, Säm Krucker, David Graham
ApJ **2015**
http://arxiv.org/pdf/1509.09186v1.pdf

A Circular-ribbon Solar Flare Following an Asymmetric Filament Eruption
Chang **Liu**, Na Deng, Rui Liu, Jeongwoo Lee, Etienne Pariat, Thomas Wiegelmann, Yang Liu, Lucia Kleint, Haimin Wang
ApJL **2015**
http://arxiv.org/pdf/1509.08414v1.pdf

Spectroscopic Signatures Related to a Sunquake
Sarah A. **Matthews**, Louise K. Harra, Sergei Zharkov, Lucie M. Green
ApJ **2015**
http://arxiv.org/pdf/1508.07216v1.pdf

Chromospheric Evaporation in an X1.0 Flare on 2014 March 29 Observed with IRIS and EIS
Y. **Li**, M. D. Ding, J. Qiu, J. X. Cheng
ApJ **2015**
http://arxiv.org/pdf/1508.03927v1.pdf

Magnetic Energy Dissipation during the 2014 March 29 Solar Flare
M.J. **Aschwanden**
ApJL **2015**
http://www.lmsal.com/~aschwand/eprints/2015_iris.pdf

The fast filament eruption leading to the X-flare on March 29, 2014
Lucia **Kleint**, Marina Battaglia, Kevin Reardon, Alberto Sainz Dalda, Peter R. Young, Säm Krucker
ApJ **2015**
http://arxiv.org/pdf/1504.00515v1.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

The 2014 March 29 X-flare: sub-arcsecond resolution observations of Fe XXI 1354.1
Peter **Young**, Hui Tian, Sarah Jaeggli
ApJ, **2014**
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On the Origin of a Sunquake during the 29 March 2014 X1 Flare
Philip G. **Judge**, Lucia Kleint, Alina Donea, Alberto Sainz Dalda, Lyndsay Fletcher
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http://arxiv.org/pdf/1409.6268v1.pdf

Hydrogen Balmer Continuum in Solar Flares Detected by the Interface Region Imaging Spectrograph (IRIS)
Petr **Heinzel**, Lucia Kleint
ApJL, **2014**
http://arxiv.org/pdf/1409.5680v1.pdf

Flare Observed by a Dozen Instruments
Lucia **Kleint** and Kevin Reardon
RHESSI Science Nugget, No. 231, **2014**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Flare_Observed_by_a_Dozen_Instruments
A wonderful flare observed by a grand set of instruments, including IRIS and IBIS.

NASA press release described the event as the "best-observed flare of all time".
A www.nasa.gov/content/goddard/nasa-telescopes-coordinate-best-ever-flare-observations/"> We would like to coordinate science studies of this flare to help analyze the huge amount of data and gather expertise from the community. If you'd like to take part, please send an e-mail to pyoung9@gmu.edu. Peter Young (GMU, USA)

30 March
Quantifying the relationship between Moreton-Ramsey waves and "EIT waves" using observations of 4 homologous wave events
David M. **Long**, Jack Jenkins, Gherardo Valori
ApJ **2019**
https://arxiv.org/pdf/1907.07963.pdf

31 March – 08:16: M1.4 **пересвет** A=32*2/314=0,20 ←16s 8s→ **08:06** 21*2/314=0,134

31 March – Длительное возмущение, бегущее вдоль крупного SE волокна

Simultaneous Near-Sun Observations of a Moving Type IV Radio Burst and the Associated White-Light Coronal Mass Ejection
K. **Hariharan** , R. Ramesh, C. Kathiravan, T. J. Wang
Solar Phys. Volume 291, Issue 5, pp 1405-1416 **2016** DOI: 10.1007/s11207-016-0918-x
See CESRA science highlight #1169, Jan 2017 http://www.astro.gla.ac.uk/users/eduard/cesra/?p=1169

Real-time Flare Detection in Ground-based H α Imaging at Kanzelh?he Observatory
Poetzi, Werner, Veronig, A.M., Riegler, G., Amerstorfer, U., Pock, Th., Temmer, M., Polanec, W., Baumgartner, D.J.
Solar Phys., **201**4
http://arxiv.org/pdf/1411.3896v2.pdf

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A comprehensive three-dimensional radiative magnetohydrodynamic simulation of a solar flare
Cheung, M. C. M.; Rempel, M.; Chintzoglou, G.; Chen, F.; Testa, P.; Martínez-Sykora, J.; Sainz Dalda, A.; DeRosa, M. L.; Malanushenko, A.; Hansteen, V.; De Pontieu, B.; Carlsson, M.; Gudiksen, B.; McIntosh, S. W.
Nature Astronomy, Volume 3, p. 160-166, **2019**
https://www.nature.com/articles/s41550-018-0629-3.epdf?author_access_token=gr3ZY26ebIzUR2WcqRelLtRgN0jAjWel9jnR3ZoTv0Ml0vLceeS715erqhTpFvw2HotukX4DnLjV72vef04rbrBNiKT8IpB-xuD7Br3cS_76LBoSAtE-Jvzb_BTU2AfQS-zu-EmkHfeGYupBmflp6w%3D%3D

1 Apr

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

Predicting the Geoeffectiveness of CMEs Using Machine Learning
Andreea-Clara **Pricopi**, Alin Razvan Paraschiv, Diana Besliu-Ionescu, Anca-Nicoleta Marginean
ApJ **2022**
https://arxiv.org/pdf/2206.11472.pdf

1-2 April
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

New Evidence that Magnetoconvection Drives Solar–Stellar Coronal Heating
Sanjiv K. **Tiwari**1,2,3,4, Julia K. Thalmann5, Navdeep K. Panesar1, Ronald L. Moore1,2, and Amy R. Winebarger
2017 ApJL 843 L20
http://iopscience.iop.org.sci-hub.cc/2041-8205/843/2/L20/

2 April - 14:05: LDE M6.5 вспышка, N14E53, II/IV тип, крупный гало CME, радио в дм диапазоне, S610~4100, S3~3700, S9~400. Активность рядом в северном волокне. Activity in nearby AR 12030 may have triggered the flare which was also associated with a large filament eruption to the north of the region.

A holistic approach to understand Helium enrichment in Interplanetary coronal mass ejections: New insights
Yogesh, D. Chakrabarty, N. Srivastava
MNRAS **2022**
https://arxiv.org/pdf/2202.01722.pdf

Investigation on the Spatiotemporal Structures of Supra-Arcade Spikes
Rui **Liu**, Yuming Wang
A&A **2021**
https://arxiv.org/pdf/2106.04752.pdf

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

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

3 Apr - >20 UT: эрупция SW волокна, 304 A, CME

Concurrent Kink and Sausage Waves in A Crescent Shaped Structure Over A Limb Prominence
Maryam **Ghiasi**, Neda Dadashi, Hossein Ebadi
MNRAS **2023**
https://arxiv.org/ftp/arxiv/papers/2311/2311.09981.pdf

Plasmoids, Flows, and Jets During Magnetic Reconnection in a Failed Solar Eruption
Pankaj **Kumar**, Judith T. Karpen, Spiro K. Antiochos, C. Richard DeVore, Peter F. Wyper, Kyung-Suk Cho
ApJ **2022**
https://arxiv.org/pdf/2212.11159.pdf

Kink Oscillation of a Flux Rope During a Failed Solar Eruption
Pankaj **Kumar**, Valery M. Nakariakov, Judith T. Karpen, C. Richard DeVore, Kyung-Suk Cho
ApJL **2022**
https://arxiv.org/pdf/2205.03480.pdf

A Simple Radial Gradient Filter for Batch-Processing of Coronagraph Images
Ritesh **Patel**, Satabdwa Majumdar, Vaibhav Pant, Dipankar Banerjee
Solar Phys. **2022**
https://arxiv.org/pdf/2201.13043.pdf

In-situ generation of transverse MHD waves from colliding flows in the solar corona
Patrick **Antolin**, Paolo Pagano, Ineke De Moortel, Valery M. Nakariakov
ApJL **2018**
https://arxiv.org/pdf/1807.00395.pdf

4 Apr

The relationships among solar flare impulsiveness, energy release, and ribbon development
Cole A **Tamburri**, Maria D Kazachenko, Adam F Kowalski
ApJ **2024**
https://arxiv.org/pdf/2403.02457.pdf

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

Observations of Photospheric Vortical Motions During the Early Stage of Filament Eruption
Sajal Kumar **Dhara**, B. Ravindra, Ravinder Kumar Banyal
Solar Phys. **2014**
http://arxiv.org/pdf/1410.3592v1.pdf

5-6 April – ICME, форбуш
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Precursory Signals of Forbush Decreases Not Connected with Shock Waves
D. **Lingri**, H. Mavromichalaki, M. Abunina, A. Belov, E. Eroshenko, I. Daglis & A. Abunin
Solar Physics volume 297, Article number: 24 (**2022**)
https://link.springer.com/content/pdf/10.1007/s11207-022-01951-4.pdf

Understanding the Origins of Problem Geomagnetic Storms Associated With "Stealth" Coronal Mass Ejections

Nariaki V. **Nitta**, Tamitha Mulligan, Emilia K. J. Kilpua, Benjamin J. Lynch, Marilena Mierla, Jennifer O'Kane, Paolo Pagano, Erika Palmerio, Jens Pomoell, Ian G. Richardson, Luciano Rodriguez, Alexis P. Rouillard, Suvadip Sinha, Nandita Srivastava, Dana-Camelia Talpeanu, Stephanie L. Yardley, Andrei N. Zhukov
Space Science Reviews **2021**
https://arxiv.org/pdf/2110.08408.pdf **File**

Investigation on the Spatiotemporal Structures of Supra-Arcade Spikes
Rui **Liu**, Yuming Wang
A&A **2021**
https://arxiv.org/pdf/2106.04752.pdf

Using Forbush decreases to derive the transit time of ICMEs propagating from 1 AU to Mars
Johan L. Freiherr **von Forstner,** Jingnan Guo, Robert F. Wimmer-Schweingruber, Donald M. Hassler, Manuela Temmer, Mateja Dumbović, Lan K. Jian, Jan K. Appel, Jaša Čalogović, Bent Ehresmann, Bernd Heber, Henning Lohf, Arik Posner, Christian T. Steigies, Bojan Vršnak, Cary J. Zeitlin
JGR **2017**
https://arxiv.org/pdf/1712.07301.pdf

6-12 Apr
Understanding the Origins of Problem Geomagnetic Storms Associated With "Stealth" Coronal Mass Ejections
Nariaki V. **Nitta**, Tamitha Mulligan, Emilia K. J. Kilpua, Benjamin J. Lynch, Marilena Mierla, Jennifer O'Kane, Paolo Pagano, Erika Palmerio, Jens Pomoell, Ian G. Richardson, Luciano Rodriguez, Alexis P. Rouillard, Suvadip Sinha, Nandita Srivastava, Dana-Camelia Talpeanu, Stephanie L. Yardley, Andrei N. Zhukov
Space Science Reviews **2021**
https://arxiv.org/pdf/2110.08408.pdf **File**

9 Apr
Solar Tornadoes Observed with the Interface Region Imaging Spectrograph: Rotating Motion of Prominence Materials
Zihao **Yang**, Hui Tian, Hardi Peter, Yang Su, Tanmoy Samanta, Jingwen Zhang, Yajie Chen
ApJ **2017**
https://arxiv.org/pdf/1711.08968.pdf

10 Apr
IRIS observations short-term variability in moss associated with transient hot coronal loops
Paola **Testa** , Vanessa Polito , Bart De Pontieu
ApJ **2019**
https://arxiv.org/pdf/1910.08201.pdf

10-11 Apr
КОРОНАЛЬНЫЕ ДЖЕТЫ КАК ПРИЧИНА ВОЗНИКНОВЕНИЯ МИКРОВОЛНОВЫХ ОТРИЦАТЕЛЬНЫХ ВСПЛЕСКОВ

КУЗЬМЕНКО И.В.1
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том: 6Номер: 3 Год: **2020** Страницы: 26-32

11 Apr Dst~-87
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

What is Unusual about the Third Largest Geomagnetic Storm of Solar Cycle 24?

N. **Gopalswamy**, S. Yashiro, S. Akiyama, H. Xie, P. Mäkelä, M.-C. Fok, C. P. Ferradas
JGR **Volume127, Issue8** e2022JA030404 **2022**
https://arxiv.org/ftp/arxiv/papers/2207/2207.11630.pdf
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2022JA030404

Fitting and Reconstruction of Thirteen Simple Coronal Mass Ejections
Nada **Al-Haddad**, Teresa Nieves-Chinchilla, Neel P. Savani, Noe Lugaz, Ilia I. Roussev
Solar Phys. **2018**
https://arxiv.org/pdf/1804.02359.pdf

12 Apr: **серьёзная геомагнитная буря Dst~90 нТл**; The source of the disturbance is uncertain but may be associated with a corotating interaction region caused by a large southern hemisphere coronal hole. (An extension of a southern hemisphere coronal hole (CH610) rotated across the central meridian on April 8 but was likely too far to the south to become geoeffective.)

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

12-18 Apr
The evolution of a spot-spot type solar active region which produced a major solar eruption
Lijuan **Liu**
Frontiers in Astronomy and Space Sciences **2023**
https://arxiv.org/pdf/2303.03637.pdf

14 Apr

Forecasting Shock-associated Energetic Particle Intensities in the Inner Heliosphere: A Proof-of-Concept Capability for the PUNCH Mission
Maher A. **Dayeh**, Michael J. Starkey, Heather A. Elliott, Raphael Attie, Craig E. DeForest, Radoslav Bučik, Mihir I. Desai
Solar Phys. **2024**
https://arxiv.org/pdf/2411.16510

Supervised convolutional neural networks for classification of flaring and nonflaring active regions using line-of-sight magnetograms
Shamik **Bhattacharjee**, Rasha Alshehhi, Dattaraj B. Dhuri, Shravan M. Hanasoge
ApJ **2020**
https://arxiv.org/pdf/2005.13333.pdf

15 Apr

Sun-as-a-star observations of obscuration dimmings caused by filament eruptions
Yu **Xu**, Hui Tian, Astrid M. Veronig, Karin Dissauer
ApJ **2024**
https://arxiv.org/pdf/2405.13671

The relationships among solar flare impulsiveness, energy release, and ribbon development
Cole A **Tamburri**, Maria D Kazachenko, Adam F Kowalski
ApJ **2024**
https://arxiv.org/pdf/2403.02457.pdf

Observations and modeling of the onset of fast reconnection in the solar transition region
L.-J. **Guo**, B. De Pontieu, Y.-M. Huang, H. Peter, A. Bhattacharjee
ApJ **2020**
https://arxiv.org/pdf/2009.11475.pdf

The transition from eruptive to confined flares in the same active region
F. P. **Zuccarello**, R. Chandra, B. Schmieder, G. Aulanier, R. Joshi
A&A **2017**
https://arxiv.org/pdf/1702.02477.pdf

Iris si iv line profiles: An indication for the plasmoid instability during small-scale magnetic reconnection on the sun
Davina **Innes**, LiJia Guo, YiMin Huang, Amitava Bhattacharjee
ApJ **2015**
http://arxiv.org/pdf/1509.08837v1.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**
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Observations of Photospheric Vortical Motions During the Early Stage of Filament Eruption
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A filament eruption began just after 09h UTC to the south of AR 12036 and extended towards another center to the south of AR S3323 and appears to have been associated with a halo CME. The M8 flare after noon in AR 12036 was associated with a full halo CME which could reach Earth on April 20.

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Devojyoti **Kansabanik**, Surajit Mondal, Divya Oberoi
ApJ **2024**
https://arxiv.org/pdf/2404.14714.pdf

Observations of Instability-driven Nanojets in Coronal Loops
A. Ramada C. **Sukarmadji**1, Patrick Antolin1, and James A. McLaughlin1
2022 ApJ 934 190
https://iopscience.iop.org/article/10.3847/1538-4357/ac7870/pdf

Iris si iv line profiles: An indication for the plasmoid instability during small-scale magnetic reconnection on the sun
Davina **Innes**, LiJia Guo, YiMin Huang, Amitava Bhattacharjee
ApJ **2015**
http://arxiv.org/pdf/1509.08837v1.pdf

4 May

Space Weather Research using Spectropolarimetric Radio Imaging Combined With Aditya-L1 and PUNCH Missions
Devojyoti **Kansabanik**, Surajit Mondal, Divya Oberoi, Puja Majee
Conference proceedings, The 21st Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, Edited by A. S. Brun, J. Bouvier, P. Petit **2023**
https://arxiv.org/pdf/2301.13673.pdf

Deciphering Faint Gyrosynchrotron Emission from Coronal Mass Ejection using Spectro-polarimetric Radio Imaging
Devojyoti **Kansabanik**, Surajit Mondal, Divya Oberoi
ApJ **2023**
https://arxiv.org/pdf/2301.06522.pdf

Tackling the Unique Challenges of Low-Frequency Solar-Polarimetry with SKA-Low Precursor : The Algorithm
Devojyoti **Kansabanik**, Divya Oberoi, Surajit Mondal
ApJ **2022**
https://arxiv.org/pdf/2204.04578.pdf

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

4-5 May
Observations and modeling of the onset of fast reconnection in the solar transition region
L.-J. **Guo**, B. De Pontieu, Y.-M. Huang, H. Peter, A. Bhattacharjee
ApJ **2020**
https://arxiv.org/pdf/2009.11475.pdf

May 4-31
Observations of Slow Solar Wind from Equatorial Coronal Holes
Y.-M. **Wang** and Y.-K. Ko
2019 ApJ 880 146
sci-hub.se/10.3847/1538-4357/ab2add

5 May
Working Principle of the Calibration Algorithm for High Dynamic Range Solar Imaging with Square Kilometre Array Precursor
Devojyoti **Kansabanik**
Solar Phys. **2022**
https://arxiv.org/pdf/2207.11665.pdf

6 May

Effect of the Heliospheric State on CME Evolution
Fithanegest Kassa **Dagnew**, Nat Gopalswamy, Solomon Belay Tessema, Sachiko Akiyama, Seiji Yashiro
ApJ **2022**
https://arxiv.org/ftp/arxiv/papers/2208/2208.03536.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

Observation of a Metric Type N Solar Radio Burst
Xiangliang **Kong**, Yao Chen, Shiwei Feng, Guohui Du, Chuanyang Li, Artem Koval, V. Vasanth, Bing Wang, Fan Guo, Gang Li
ApJ **2016**
http://arxiv.org/pdf/1608.00093v1.pdf

7 May

Origin of 3He abundance enhancements in gradual solar energetic particle events
Radoslav **Bucik**, Samuel T. Hart, Maher A. Dayeh, Mihir I. Desai, Glenn M. Mason, Mark E. Wiedenbeck
IAU Symposium 388 Proceedings **2024**
https://arxiv.org/pdf/2410.15515

Magnetic field in atypical prominence structures: Bubble, tornado and eruption
P. J. **Levens**, B. Schmieder, A. López Ariste, N. Labrosse, K. Dalmasse, B. Gelly
2016
http://arxiv.org/pdf/1605.05964v1.pdf

8 May – 10:07: восточная (N08E54) вспышка M5.2/2B, **S15~1500**
- An interplanetary shock wave, origin unknown, hit Earth's magnetic field during the late hours of May 7th. **Буря Dst~-48 nT**.

9 May

Direct Imaging of MHD Wave Mode Conversion Near a 3D Null Point on the Sun
Pankaj **Kumar**, Valery M. Nakariakov, Judith T. Karpen, Kyung-Suk Cho
ApJ **2024**
https://arxiv.org/pdf/2403.02250.pdf

First High-resolution Spectroscopic Observations of an Erupting Prominence Within a Coronal Mass Ejection by the Interface Region Imaging Spectrograph (IRIS)
Wei **Liu**, Bart De Pontieu, Jean-Claude Vial, Alan M. Title, Mats Carlsson, Han Uitenbroek, Takenori J. Okamoto, Thomas E. Berger, Patrick Antolin
ApJ **2015**
http://arxiv.org/pdf/1502.04738v1.pdf

10 May

Slowly positively drifting bursts generated by large-scale magnetic reconnection
Alena **Zemanová**, Marian Karlický, Jana Kašparová, Jaroslav Dudík, Ján Rybák
A&A **2024**
https://arxiv.org/pdf/2408.12218

Properties and Energetics of Magnetic Reconnection: I. Evolution of Flare Ribbons
Jiong **Qiu**, Jianxia Cheng
Solar Phys. **2022**
https://arxiv.org/pdf/2205.03004.pdf

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

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

Study of reconnection rates and light curves in solar flares from low and mid chromosphere
G **Sindhuja** Nandita Srivastava A M Veronig W Pötzi
Monthly Notices of the Royal Astronomical Society, Volume 482, Issue 3, 21 January **2019**, Pages 3744–3756
sci-hub.tw/10.1093/mnras/sty2887

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

Real-time Flare Detection in Ground-based H α Imaging at Kanzelh?he Observatory
Poetzi, Werner, Veronig, A.M., Riegler, G., Amerstorfer, U., Pock, Th., Temmer, M., Polanec, W., Baumgartner, D.J.
Solar Phys., **201**4
http://arxiv.org/pdf/1411.3896v2.pdf

10-12 May
Quasi-Periodic Oscillation of a Coronal Bright Point
Tanmoy **Samanta**, Dipankar Banerjee, Hui Tian
ApJ **2015**
http://arxiv.org/pdf/1505.00587v1.pdf

11 May - A pair of bright coronal mass ejections (CMEs) billowed away from the eastern limb. Both CMEs were propelled from the sun by unstable filaments of magnetism, which erupted in quick succession during the early hours. See STEREO-B and http://www.spaceweather.com/archive.php?view=1&day=12&month=05&year=2014.

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

14 May – ~07 UT: SE эрупция, 304 A
15:04: западная (N07W30) C8.3 LDE, без радио, без протонов (как и 13-ого)

15 May

Generalisation of the Magnetic Field Configuration of typical and atypical Confined Flares
Navin Chandra **Joshi**, Xiaoshuai Zhu, Brigitte Schmieder, Guillaume Aulanier, Miho Janvier, Bhuwan Joshi, Tetsuya Magara, Ramesh Chandra, Satoshi Inoue
ApJ **2018**
https://arxiv.org/pdf/1811.01228.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

16 May

Characteristics of Chromospheric Oscillation Periods in Magnetic Bright Points (MBPs)
Rayhane **Sadeghi**, Ehsan Tavabi
MNRAS **2022**
https://arxiv.org/ftp/arxiv/papers/2203/2203.00665.pdf

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

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

Twin CME Launched by a Blowout Jet Originated from the Eruption of a Quiet-Sun Mini-filament
Ritika **Solanki**, Abhishek K. Srivastava, Yamini K. Rao, Bhola N. Dwivedi
Solar Phys. **2019**
https://arxiv.org/pdf/1905.02475.pdf

Chromospheric heating due to cancellation of quiet Sun internetwork fields
Milan **Gošić**, Jaime de la Cruz Rodríguez, Bart De Pontieu, Luis R. Bellot Rubio, Mats Carlsson, Sara Esteban Pozuelo, Ada Ortiz, Vanessa Polito
ApJ **2018**
https://arxiv.org/pdf/1802.07392.pdf'

EVIDENCE FOR A COMMON ACCELERATION MECHANISM FOR ENRICHMENTS OF 3He AND HEAVY IONS IN IMPULSIVE SEP EVENTS
Glenn M. **Mason**1, Nariaki V. Nitta2, Mark E. Wiedenbeck3, and Davina E. Innes
2016 ApJ 823 138

Observations of solar X-ray and EUV jets and their related phenomena **Review**
Davina **Innes**, Radoslav Bucik, Li-Jia Guo, Nariaka Nitte
Astronomische Nachrichten **2016**
http://arxiv.org/pdf/1603.03258v1.pdf

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

19 May – >05: серьёзная эрупция центрально-северного волокна в северном направлении,
304 A

22-23 May – небольшая буря и заметный форбуш; видимо, glancing impact от эрупции 19-ого

23-24 May

Magnetic field in atypical prominence structures: Bubble, tornado and eruption
P. J. **Levens**, B. Schmieder, A. López Ariste, N. Labrosse, K. Dalmasse, B. Gelly
2016
http://arxiv.org/pdf/1605.05964v1.pdf

24 May
Fine Magnetic Structure and Origin of Counter-Streaming Mass Flows in a Quiescent Solar Prominence
Yuandeng **Shen**, Yu Liu, Ying D. Liu, P. F. Chen, Jiangtao Su, Zhi Xu, Zhong Liu
Astronomical Journal Letters **201**5
http://arxiv.org/pdf/1511.02489v1.pdf

25 May
Onset of turbulent fast magnetic reconnection observed in the solar atmosphere
L. P. **Chitta**, A. Lazarian
ApJL **890** L2 **2020**
https://arxiv.org/pdf/2001.08595.pdf
sci-hub.si/10.3847/2041-8213/ab6f0a

26 May
GONG Catalog of Solar Filament Oscillations Near Solar Maximum
Manuel **Luna**, Judith Karpen, José Luís Ballester, Karin Muglach, Jaume Terradas, Therese Kucera, Holly Gilbert
Astrophysical Journal Supplement Series **2018**
https://arxiv.org/pdf/1804.03743.pdf

26 May-1 Jun
Comparison of Two Methods for Deriving the Magnetic Field in a Filament Channel
T. A. **Kucera**1, M. Luna2, T. Török3, K. Muglach1,4, J. T. Karpen1, C. Downs3, X. Sun5, B. J. Thompson1, and H. R. Gilbert6
2022 ApJ 940 34
https://iopscience.iop.org/article/10.3847/1538-4357/ac9377/pdf

27-30 May
Interferometric Observations of the Quiet Sun at 20 and 25 MHz in May 2014
V.N. **Melnik**, V.A. Shepelev, S. Poedts, V.V. Dorovskyy, A.I. Brazhenko, H.O. Rucker
Solar Phys. **2018**
https://arxiv.org/pdf/1806.08660.pdf

28 May
Launch of a CME-associated eruptive prominence as observed with IRIS and ancillary instruments⋆
P. **Zhang**, É. Buchlin and J.-C. Vial
A&A 624, A72 (**2019**)
https://www.aanda.org/articles/aa/pdf/2019/04/aa34259-18.pdf
sci-hub.se/10.1051/0004-6361/201834259

29 May
Interferometer Observations of Solar Type III Bursts by the Radio Telescope UTR-2
Valentin **Melnik** 1 , Valerii Shepelev 1 , Anatolii Brazhenko 2 , Vladimir Dorovskyy 1 , Helmut Rucker 3 , Stefaan Poedts
Sun and Geosphere, **2017**; 12/2: 105 -109
http://newserver.stil.bas.bg/SUNGEO//00SGArhiv/SG_v12_No2_2017-pp-105-109.pdf

30 May – небольшой форбуш

An Analytical Diffusion-Expansion Model for Forbush Decreases Caused by Flux Ropes
Mateja **Dumbović**, Bernd Heber, Bojan Vršnak, Manuela Temmer, Anamarija Kirin
2018
https://arxiv.org/pdf/1805.00916.pdf

GONG Catalog of Solar Filament Oscillations Near Solar Maximum
Manuel **Luna**, Judith Karpen, José Luís Ballester, Karin Muglach, Jaume Terradas, Therese Kucera, Holly Gilbert
Astrophysical Journal Supplement Series **2018**
https://arxiv.org/pdf/1804.03743.pdf

2 June

Interferometer Observations of Solar Type III Bursts by the Radio Telescope UTR-2
Valentin **Melnik** 1 , Valerii Shepelev 1 , Anatolii Brazhenko 2 , Vladimir Dorovskyy 1 , Helmut Rucker 3 , Stefaan Poedts
Sun and Geosphere, **2017**; 12/2: 105 -109
http://newserver.stil.bas.bg/SUNGEO//00SGArhiv/SG_v12_No2_2017-pp-105-109.pdf

3 June

Why Do Chromospheric Oscillations in Sunspot Umbrae Appear to Propagate Downward?
Jongchul **Chae**3,1, Eun-Kyung Lim2, Kyeore Lee1, Hannah Kwak2, Kyoung-Sun Lee1, Juhyung Kang1, and Soosang Kang1
2023 ApJL 944 L52
https://iopscience.iop.org/article/10.3847/2041-8213/acba7d/pdf

Propagating Alfvénic Waves Observed in the Chromosphere around a Small Sunspot: Tales of 3-minute Waves and 10-minute Waves
Jongchul **Chae**1, Kyuhyoun Cho1,2,3, Eun-Kyung Lim4, and Juhyung Kang1,4
2022 ApJ 933 108
https://iopscience.iop.org/article/10.3847/1538-4357/ac722e/pdf

The Physical Nature of Spiral Wave Patterns in Sunspots
Juhyung **Kang**1, Jongchul Chae1, Valery M. Nakariakov2,3, Kyuhyoun Cho1, Hannah Kwak1, and Kyeore Lee1
2019 ApJL 877 L9
sci-hub.se/10.3847/2041-8213/ab1f6c

4 June – ~17 UT: заметная SE эрупция волокна, 304 A, крупный CME
Крупная эрупция SE волокна – Hyder flare
See http://thewatchers.adorraeli.com/2014/06/05/huge-solar-filament-collapses-hyder-flare-june-4-2014/
http : //www:stce:be/newsletter/pdf/2014/STCEnews20141107.pdf

4-13 June

Solar Farside Magnetograms from Deep Learning Analysis of STEREO/EUVI Data
Kim, T., Park, E., Lee, H., et al.
2019, Nature Astronomy,
http://sci-hub.se/10.1038/s41550-019-0711-5

5 June

Magnetic Relaxation Seen in a Rapidly Evolving Light Bridge in a Sunspot
Donguk **Song**1,2, Eun-Kyung Lim1, Jongchul Chae3, Yeon-Han Kim1, Yukio Katsukawa2, and Vasyl Yurchyshyn4
2024 ApJ 962 75

https://iopscience.iop.org/article/10.3847/1538-4357/ad1ab0/pdf

The Nature of High-frequency Oscillations Associated with Short-lived Spicule-type Events
Juie **Shetye**1,2, Erwin Verwichte3, Marco Stangalini4, and J. G. Doyle2
2021 ApJ 921 30
https://iopscience.iop.org/article/10.3847/1538-4357/ac1a12/pdf
https://doi.org/10.3847/1538-4357/ac1a12

Magnetic Flux Cancellation in Ellerman Bombs
A. **Reid**, M. Mathioudakis, J. G. Doyle, E. Scullion, V. Henriques, C. Nelson, T. Ray
ApJ **2016**
http://arxiv.org/pdf/1603.07100v1.pdf

High--cadence observations of spicular-type events on the Sun
J. **Shetye**, J.G. Doyle, E. Scullion, C. J. Nelson, D. Kuridze, V. Henriques, F. Woeger, T. Ray
A&A **2016**
http://arxiv.org/pdf/1601.08087v1.pdf

6 June
Chromospheric Plasma Ejections in a Light Bridge of a Sunspot
Donguk **Song**, Jongchul Chae, Vasyl Yurchyshyn, Eun-Kyung Lim, Kyung-Suk Cho, Heesu Yang, Kyuhyoun Cho, Hannah Kwak
ApJ **2017**
https://arxiv.org/pdf/1701.06808v1.pdf

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

The Nature of High-frequency Oscillations Associated with Short-lived Spicule-type Events
Juie **Shetye**1,2, Erwin Verwichte3, Marco Stangalini4, and J. G. Doyle2
2021 ApJ 921 30
https://iopscience.iop.org/article/10.3847/1538-4357/ac1a12/pdf
https://doi.org/10.3847/1538-4357/ac1a12

Automated Detection of Chromospheric Swirls Based on Their Morphological Characteristics
Ioannis **Dakanalis**, Georgia Tsiropoula, Kostas Tziotziou & Konstantinos Koutroumbas
Solar Physics volume 296, Article number: 17 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01748-3.pdf

A persistent quiet-Sun small-scale tornado. II. Oscillations
K. **Tziotziou**, G. Tsiropoula, I. Kontogiannis
A&A **2019**
https://arxiv.org/pdf/1903.04796.pdf

A persistent quiet-Sun small-scale tornado
I. Characteristics and dynamics⋆
K. **Tziotziou**1, G. Tsiropoula1, I. Kontogiannis2, E. Scullion3 and J. G. Doyle
A&A 618, A51 (**2018**)
sci-hub.tw/10.1051/0004-6361/201833101

First simultaneous SST/CRISP and IRIS observations of a small-scale quiet Sun vortex
S.-H. **Park**, G. Tsiropoula, I. Kontogiannis, K. Tziotziou, E. Scullion, J.G. Doyle
A&A **201**5

http://arxiv.org/pdf/1512.06032v1.pdf

8 June – геомагнитная буря Dst~-47 nT и **довольно большой форбуш** от эрупции 4-ого

10 June – 11:41: X2.2 вспышка, **пересвет** на STEREO-B, B=40*2/299=0,27
2-элементный от очень импульсной вспышки
12:56: X1.5 вспышка, **пересвет** на STEREO-B, B=35*2/299=0,23
широкий, многоэлементный от LDE вспышки
Т.е. формально для STEREO-B центры оптических вспышек были на долготах E82−84. Однако, вид вспышечных структур (в том числе на SDO) наводит на заключение, что основная часть EUV вспышки для STEREO-B была за западным лимбом. Это возможно, если для GOES и SDO основные структуры вспышек были на гелиодолготах E<74 !
См. 2014-06-10_notes.doc и
RHESSI Science Nugget, No. 228, June **2014**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/RHESSI_Science_Nuggets

10 June - DOUBLE X-FLARE: A new sunspot (AR2087) suddenly emerging from behind the sun's southeastern limb erupted twice, producing a very impulsive (spike) X2.2-flare at 11:42 UT (S15~2200) and a short-duration X1.5-flare at 12:52 (S9~3300). An asymmetric full halo CME was observed after the X flares in AR 12087. Gamma

Why could a new-born active region produce coronal mass ejections?
Hanzhao **Yang**, Lijuan Liu
ApJ **2024**
https://arxiv.org/pdf/2407.19710

Search for superstrong magnetic fields in active processes on the Sun using spectro-polarimetry within 15 Å around the D3 line
I I **Yakovkin**, V G Lozitsky
MNRAS, Volume 523, Issue 4, August **2023**, Pages 5812–5822,
https://doi.org/10.1093/mnras/stad1816

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

Plasma heating and nanoflare caused by slow-mode wave in a coronal loop
Fanxiaoyu **Xia**, Tongjiang Wang, Yang Su, Jie Zhao, Qingmin Zhang, Astrid M. Veronig, Weiqun Gan
ApJL **2022**
https://arxiv.org/pdf/2208.10029.pdf

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

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

High-frequency transverse oscillations and intensity perturbations in spicular-type events
J. **Shetye**, D. Kuridze, M. Stangalini, J. G. Doyle, E. Scullion, V. Henriques, T. Ray
A&A **2017**
https://star.arm.ac.uk/~jus/outgoing/accepted_papers/fast_features_waves_V12.pdf

Explosive events in active region observed by IRIS and SST/CRISP
Z. **Huang**, M. S. Madjarska, E. M. Scullion, L.-D. Xia, J. G. Doyle, T. Ray
MNRAS Volume 464, Issue 2, p.1753-1761 **2017**
https://arxiv.org/pdf/1609.07698v1.pdf

High--cadence observations of spicular-type events on the Sun
J. **Shetye**, J.G. Doyle, E. Scullion, C. J. Nelson, D. Kuridze, V. Henriques, F. Woeger, T. Ray
A&A **2016**
http://arxiv.org/pdf/1601.08087v1.pdf

Daily solar mm-observations at Aalto University Metsahovi Radio Observatory
Juha **Kallunki** and Minttu Uunila:
RHESSI Nugget No. 248, March **2015**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Daily_solar_mm-observations_at_Aalto_University_Metsähovi_Radio_Observatory

Mysteries of Flare/CME Initiation **Interesting**
Shaun **Bloomfield** and HughHudson
RHESSI Science Nugget, No. 228, June **2014**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/RHESSI_Science_Nuggets

10-12 Jun
Why could a new-born active region produce coronal mass ejections?
Hanzhao **Yang**, Lijuan Liu
ApJ **2024**
https://arxiv.org/pdf/2407.19710

11 June – Ещё 3 короткие вспышки балла M3, X1 и M3.9 из той же восточной области.
Gamma

Generic low-atmosphere signatures of swirled-anemone jets
Joshi, Reetika ; Aulanier, Guillaume ; Radcliffe, Alice ; Rouppe van der Voort, Luc ; Pariat, Etienne ; Nóbrega-Siverio, Daniel ; Schmieder, Brigitte
A&A **2024**
https://arxiv.org/pdf/2404.13171

The Slipping Magnetic Reconnection and Damped Quasiperiodic Pulsations in a Circular Ribbon Flare
Jing **Huang**1,2,3, Baolin Tan1,2,3, Yin Zhang1,2, Xiaoshuai Zhu2, Shangbin Yang1,2,3, and Yuanyong Deng1,2,
2024 ApJ 965 137
https://iopscience.iop.org/article/10.3847/1538-4357/ad3353/pdf

Identifying preflare spectral features using explainable artificial intelligence
Brandon **Panos**, Lucia Kleint, Jonas Zbinden
A&A **2023**

https://arxiv.org/pdf/2301.01560.pdf

Differential Emission Measure Evolution as a Precursor of Solar Flares
C. **Gontikakis** (1), I. Kontogiannis (2), M.K. Georgoulis (1,3), C. Guennou (4), P. Syntelis (5), S.H. Park (6), E. Buchlin
2020
https://arxiv.org/pdf/2011.06433.pdf

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

Multi-wavelength observations of the 2014 June 11 M3.9 flare: temporal and spatial characteristics
Damian J. **Christian**, David Kuridze, David B. Jess, Menoa Yousefi, Mihalis Mathioudakis
Research in Astronomy and Astrophysics **2018**
https://arxiv.org/pdf/1811.07077.pdf

Reproducing Type II White-Light Solar Flare Observations with Electron and Proton Beam Simulations
Ondřej **Procházka**, Aaron Reid, Ryan O. Milligan, Paulo J. A. Simões, Joel C. Allred, Mihalis Mathioudakis
2018
https://arxiv.org/pdf/1806.00249.pdf

Magnetic braids in eruptions of a spiral structure in the solar atmosphere
Zhenghua **Huang**, Lidong Xia, Chris J. Nelson, Jiajia Liu, Thomas Wiegelmann, Hui Tian, James A. Klimchuk, Yao Chen, Bo Li
ApJ **2018**
https://arxiv.org/pdf/1801.05967.pdf

Suppression of Hydrogen Emission in an X-class White-light Solar Flare
Ondřej **Procházka**1, Ryan O. Milligan1,2,3, Joel C. Allred2, Adam F. Kowalski4,5, Pavel Kotrč6, and Mihalis Mathioudakis
2017 ApJ 837 46
http://sci-hub.cc/10.3847/1538-4357/aa5da8

Observations and simulations of the Na I D1 line profiles in an M-class solar flare
D. **Kuridze**, M. Mathioudakis, D. J. Christian, A. F. Kowalski, D. B. Jess, S. D. T. Grant, T. Kawate, P. J. A. Simões, J. C. Allred, F. P. Keenan
ApJ **2016**
http://arxiv.org/pdf/1609.08120v1.pdf

New Observations of Balmer Continuum Flux in Solar Flares, Instrument Description and First Results
P. **Kotrč**, O. Procházka, P. Heinzel
Solar Physics **2016**
http://arxiv.org/pdf/1601.04610v1.pdf

12 June – Ещё несколько коротких M вспышек из двух областей. А в конце дня из западной области **M3.1 LDE** вспышка; только она дала маленькие протоны. At least a partial halo CME was observed after the M3 LDE in AR 12085 late in the day.

Signatures of Magnetic Flux Ropes in the Low Solar Atmosphere Observed in High Resolution **Review**
Haimin **Wang** and Chang Liu
Front. Astron. Space Sci., 04 April **2019**
sci-hub.se/10.3389/fspas.2019.00018
https://www.frontiersin.org/articles/10.3389/fspas.2019.00018/full

Statistical Study of Chromospheric Evaporation in Impulsive Phase of Solar Flares
Viacheslav M **Sadykov**, Alexander G Kosovichev, Ivan N Sharykin, Graham S Kerr
ApJ **2018**
https://arxiv.org/pdf/1805.10729.pdf

Observational Investigation of Energy Release in the Lower Solar Atmosphere of a Solar Flare
I. N. **Sharykin**, V. M. Sadykov, A. G. Kosovichev, S. Vargas-Dominguez, I. V. Zimovets
2016
http://arxiv.org/pdf/1604.05380v1.pdf

Formation and Eruption of a Small Flux Rope in the Chromosphere Observed by NST, IRIS, and SDO
Pankaj **Kumar**, Vasyl Yurchyshyn, Haimin Wang, Kyung-Suk Cho
ApJ **2015**
http://arxiv.org/pdf/1507.01761v1.pdf

Properties of Chromospheric Evaporation and Plasma Dynamics of a Solar Flare from Iris
Viacheslav M. **Sadykov**1,2,3,4, Santiago Vargas Dominguez1,5, Alexander G. Kosovichev1,2, Ivan N. Sharykin3, Alexei B. Struminsky3,4, and Ivan Zimovets
2015 ApJ 805 167

Analysis of IRIS and NST observations of the 12.06.2014 flare event
Viacheslav M. **Sadykov**, Santiago Vargas Dominguez, Alexander G. Kosovichev, Ivan N. Sharykin
2014
http://arxiv.org/pdf/1412.0172v1.pdf

12-13 June
Statistical Study of Chromospheric Evaporation in Impulsive Phase of Solar Flares
Viacheslav M **Sadykov**, Alexander G Kosovichev, Ivan N Sharykin, Graham S Kerr
ApJ **2018**
https://arxiv.org/pdf/1805.10729.pdf

Transverse oscillations in slender Ca II H fibrils observed with Sunrise/SuFI
Shahin **Jafarzadeh**, S. K. Solanki, R. Gafeira, M. van Noort, P. Barthol, J. Blanco Rodriguez, J. C. del Toro Iniesta, A. Gandorfer, L. Gizon, J. Hirzberger, M. Knoelker, D. Orozco Suarez, T. L. Riethmueller, W. Schmidt
Astrophysical Journal Supplement Series **2016**

https://arxiv.org/pdf/1610.07449v1.pdf

13 June
Comparative analysis of solar radio bursts before and during CME propagation
G.**Dididze**, B.M. Shergelashvili, V.N. Melnik, V.V. Dorovskyy, A.I. Brazhenko, S. Poedts, T.V. Zaqarashvili, M. Khodachenko
A&A **2019**
https://arxiv.org/pdf/1903.12279.pdf

14 June – 19:31: M1.4 вспышка, **пересвет** на STEREO-B, B=14*2/300=0,09

DIRECT DETECTION OF THE HELICAL MAGNETIC FIELD GEOMETRY FROM 3D RECONSTRUCTION OF PROMINENCE KNOT TRAJECTORIES
Maciej **Zapiór** and David Martínez-Gómez
2016 ApJ 817 123

On the Variation of Volumetric Evolution of CMEs from Inner to Outer Corona
Satabdwa **Majumdar**, Ritesh Patel, Vaibhav Pant
ApJ **2022**
https://arxiv.org/pdf/2202.11924.pdf

15 June – 12:16: M1.1 вспышка, **пересвет** на STEREO-B, B=0,08 <--16s 8s→ 11:51 B= 0.06

По линейным картинкам

14-15 June

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

Predicting the Evolution of Photospheric Magnetic Field in Solar Active Regions Using Deep Learning
Liang **Bai**, Yi Bi, Bo Yang, Jun-Chao Hong, Zhe Xu, Zhen-Hong Shang, Hui Liu, Hai-Sheng Ji, Kai-Fan Ji
Research in Astron. Astrophys. (RAA) **2020**
https://arxiv.org/pdf/2012.03584.pdf

Ellerman bombs at high resolution III. Simultaneous observations with IRIS and SST
Gregal J. M. **Vissers**, Luc H. M. Rouppe van der Voort, Robert J. Rutten, Mats Carlsson, Bart De Pontieu
ApJ **2015**
http://arxiv.org/pdf/1507.00435v1.pdf

June 15: A CME was observed after the C5 event in AR 12092. While the core of this fairly narrow CME was headed to the southeast,

The Neupert Effect of Flare UltraViolet and Soft X-ray Emissions
Jiong **Qiu**
ApJ **2021**
https://arxiv.org/pdf/2101.11069.pdf

Source Imaging of a Moving Type-IV Solar Radio Burst and its Role in Tracking Coronal Mass Ejection From the Inner to the Outer Corona
V. **Vasanth**, Yao Chen, Maoshui Lv, Hao Ning, Chuangyang Li, Shiwei Feng, Zhao Wu, Guohui Du
2019 ApJ 870 30
https://arxiv.org/pdf/1810.11815.pdf

Solar Ultraviolet Bursts **Review**
Peter R. **Young**, Hui Tian, Hardi Peter, Robert J. Rutten, Chris J. Nelson, Zhenghua Huang, ...
Space Science Reviews December **2018**, 214:120
https://link.springer.com/content/pdf/10.1007%2Fs11214-018-0551-0.pdf

16 June, залимбовый пересвет 02:16 ←16s 8s→ A=61/312=**0.2**
02:11 примерно такой же

16 June

Automatic detection technique for solar filament oscillations in GONG data
M. **Luna**1,2, J. R. Mérou Mestre1,2 and F. Auchère3
A&A 666, A195 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/10/aa44181-22.pdf
https://arxiv.org/pdf/2209.05087.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

17 June A partial halo CME was observed after a C4 (03:31) flare in AR 12087.

Fast downflows in a chromospheric filament
K. **Sowmya**, A. Lagg, S. K. Solanki, J. S. Castellanos Durán
Proceedings of IAUS 354 **2019**)
https://arxiv.org/pdf/1912.06586.pdf

Spectropolarimetric analysis of an active region filament. I. Magnetic and dynamical properties from single component inversions
C. J. Díaz **Baso**, M. J. Martínez González, A. Asensio Ramos
A&A **2019**
https://arxiv.org/pdf/1904.09593.pdf

Chromospheric counterparts of solar transition region unresolved fine structure loops
Tiago M. D. **Pereira**, Luc Rouppe van der Voort, Viggo H. Hansteen, Bart De Pontieu
A&A **2018**
https://arxiv.org/pdf/1803.04415.pdf
See Pereira, T. M. D., Rouppe van der Voort, L., & Carlsson, M. 2016, ApJ, 824, 65

17-18 June - форбуш

18 June, залимбовый пересвет 18:16 ←16s 8s→ A=42/312=0.13 <0.2 не берём
8s→ 18:11 A=30*2/312=0.19

18 June - A minor (G1-class) geomagnetic storm (Dst~-(33-41) nT) is in progress due to unsettled solar wind conditions. A disturbance, possibly with a coronal hole origin, arrived after 16h UTC and caused unsettled to active conditions.

19 June – A large SE filament eruption began just after 15h UTC just north of ARs 12093/S3538.
Сильные глобальные возмущения на 304 А. A partial halo CME was observed.

Development of Torus and Kink Instabilities in Eruptive Prominences
Boris **Filippov**
2024 ApJ 977 259
https://iopscience.iop.org/article/10.3847/1538-4357/ad95fe/pdf

23 June - Arriving about a day later than expected, a CME hit Earth's magnetic field on June 23rd at 2300 UT. A weak solar wind shock was observed at 22:00 UTC at SOHO, the low solar wind speed indicates that this may have been the arrival of the June 19 CME.

24 June

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

25 June

Upper Chromospheric Magnetic Field of a Sunspot Penumbra: Observations of Fine Structure

J. **Joshi**, A. Lagg, S. K. Solanki, A. Feller, M. Collados, D. Orozco Suárez, R. Schlichenmaier, M. Franz,H. Balthasar, C. Denker, T. Berkefeld, A. Hofmann, C. Kiess, H. Nicklas, A. Pastor Yabar, R. Rezaei, D. Schmidt, W. Schmidt, M. Sobotka, D. Soltau, J. Staude, K. G. Strassmeier, R. Volkmer, O. von der Lühe,T. Waldmann

A&A **2016**

http://arxiv.org/pdf/1608.01988v1.pdf

26 Jun

On the Variation of Volumetric Evolution of CMEs from Inner to Outer Corona

Satabdwa **Majumdar**, Ritesh Patel, Vaibhav Pant

ApJ **2022**

https://arxiv.org/pdf/2202.11924.pdf

26-27 June - During the early hours of June 27th, a series of bright CMEs billowed over the sun's northern limb. STEREO probes saw the eruptions that gave birth to these clouds; the blast sites were **on the farside of the sun**.

Three-dimensional structure of a sunspot light bridge

T. **Felipe**, M. Collados, E. Khomenko, C. Kuckein, A. Asensio Ramos, H. Balthasar, T. Berkefeld, C. Denker, A. Feller, M. Franz, A. Hofmann, C. Kiess, A. Lagg, H. Nicklas, D. Orozco Suárez, A. Pastor Yabar, R. Rezaei, R. Schlichenmaier, D. Schmidt, W. Schmidt, M. Sigwarth, M. Sobotka, S. K. Solanki, D. Soltau, J. Staude, K. G. Strassmeier, R. Volkmer, O. von der Lühe, T. Waldmann

A&A **2016**

https://arxiv.org/pdf/1611.04803v1.pdf

27 June

Detection of emission in the Si i 1082.7 nm line core in sunspot umbrae

D. Orozco **Suarez**, C. Quintero Noda, B. Ruiz Cobo, M. Collados Vera

A&A **2017**

https://arxiv.org/pdf/1709.06773.pdf

June 28-July 25

Simulating Solar Maximum Conditions Using the Alfvén Wave Solar Atmosphere Model (AWSoM)

Nishtha **Sachdeva**1, Gábor Tóth1, Ward B. Manchester1, Bart van der Holst1, Zhenguang Huang1, Igor V. Sokolov1, Lulu Zhao1, Qusai Al Shidi1, Yuxi Chen1, Tamas I. Gombosi1Show full author list

2021 ApJ 923 176

https://iopscience.iop.org/article/10.3847/1538-4357/ac307c/pdf
https://doi.org/10.3847/1538-4357/ac307c

Observations of Slow Solar Wind from Equatorial Coronal Holes
Y.-M. **Wang** and Y.-K. Ko
2019 ApJ 880 146
sci-hub.se/10.3847/1538-4357/ab2add

29 June

Cold Solar Flares. I. Microwave Domain
Alexandra L. **Lysenko**1, Stephen M. White2, Dmitry A. Zhdanov3, Nataliia S. Meshalkina3, Aleksander T. Altyntsev3, Galina G. Motorina1,4,5, and Gregory D. Fleishman6,7
2023 ApJ 954 122
https://iopscience.iop.org/article/10.3847/1538-4357/acea20/pdf

Flux erosion of magnetic clouds by reconnection with the Sun's open flux
Sanchita **Pal**, Soumyaranjan Dash, Dibyendu Nandy
Geophysical Research Letters,47, Issue 8, e2019GL086372, **2020**
https://arxiv.org/pdf/2103.05990.pdf
https://doi.org/10.1029/2019GL086372

Prediction of Flares within 10 Days before They Occur on the Sun
Nasibe **Alipour**, Faranak Mohammadi, and Hossein Safari
2019 ApJS 243 20
sci-hub.se/10.3847/1538-4365/ab289b

30 June, залимбовый пересвет 17:01 B=39*2/300=0.26

1 July
Observations of Instability-driven Nanojets in Coronal Loops
A. Ramada C. **Sukarmadji**1, Patrick Antolin1, and James A. McLaughlin1
2022 ApJ 934 190
https://iopscience.iop.org/article/10.3847/1538-4357/ac7870/pdf

2 July MLSO Beautiful **3-part CME** with structured prominence in northeast ~50 degrees PA from 17:12 to ~19:04 UT
http://www2.hao.ucar.edu/sites/default/files/images/mlso/gallery/20150702_1712_ne_cme_kcor_510x510_movie.gif

Synchronized Observations of Bright Points from the Solar Photosphere to Corona
Ehsan **Tavabi**
MNRAS **2018**
https://arxiv.org/ftp/arxiv/papers/1801/1801.01307.pdf

3 Jul
Derivation and Application of a Scaling Between Hinode/SP and SDO/HMI Vector Magnetic Fields to Improve Magnetic Field Extrapolations
C. **Beck**, A. Prasad, Q. Hu, M. S. Yalim, S. Gosain, D.P. Choudhary
ApJ **2024**
https://arxiv.org/pdf/2411.17649

4 July
The formation of IRIS diagnostics VIII. IRIS observations in the C II 133.5 nm multiplet
Bhavna **Rathore**, Tiago M. D. Pereira, Mats Carlsson, Bart De Pontieu
ApJ **2015**

http://arxiv.org/pdf/1510.04845v1.pdf

4-9 Jul

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

5 July

Decayless longitudinal oscillations of a solar filament maintained by quasi-periodic jets
Y. W. **Ni**, J. H. Guo, Q. M. Zhang, J. L. Chen, C. Fang, P. F. Chen
A&A **2022**
https://arxiv.org/pdf/2203.15660.pdf

Partial Eruption, Confinement, and Twist Buildup and Release of a Double-decker Filament
Jialin **Chen**, Yingna Su, Rui Liu, Bernhard Kliem, Qingmin Zhang, Haisheng Ji, Tie Liu
ApJ **923** 142 **2021**
https://arxiv.org/pdf/2111.13174.pdf
https://doi.org/10.3847/1538-4357/ac2ba1

6-10 July

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

7 July

Diagnostic of Homologous Solar Surge Plasma as observed by IRIS and SDO
Pradeep **Kayshap**, Rajdeep Singh Payal, Sharad C. Tripathi, Harihara Padhy
MNRAS **2021**
https://arxiv.org/pdf/2106.06222.pdf

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

Spectroscopic and Stereoscopic Observations of the Solar Jets
Lei **Lu**, Li Feng, Ying Li, Dong Li, Zongjun Ning, Weiqun Gan
2019
https://arxiv.org/pdf/1910.13649.pdf

New Evidence that Magnetoconvection Drives Solar–Stellar Coronal Heating
Sanjiv K. **Tiwari**1,2,3,4, Julia K. Thalmann5, Navdeep K. Panesar1, Ronald L. Moore1,2, and Amy R. Winebarger
2017 ApJL 843 L20
http://iopscience.iop.org.sci-hub.cc/2041-8205/843/2/L20/

New Evidence that Magnetoconvection Drives Solar-Stellar Coronal Heating
Sanjiv K. **Tiwari**, Julia K. Thalmann, Navdeep K. Panesar, Ronald L. Moore, Amy R. Winebarger
ApJL **2017**
https://arxiv.org/pdf/1706.08035.pdf

8 July – 16:20, M6.5/2B flare, N12E55, S5~200 sfu. The flare came as little surprise. A phalanx of large sunspots is crossing the solar disk, and forecasters have been predicting an explosion for more than a week. However, the source of the flare was unexpected. It came from a minor and seemingly harmless sunspot named AR2113.

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

Current sheets in the wake of an eruption of two crossing filaments
Jun **Dai**, Jiayan Yang, Leping Li, Jun Zhang
ApJ **2018**
https://arxiv.org/pdf/1811.08563.pdf

Solar flare neutrons observed on the ground and in space
Alexander **MacKinnon**
RHESSI Science Nuggets #280 Aug **2016**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Solar_flare_neutrons_observed_on_the_ground_and_in_space

Simultaneous Observation of Solar Neutrons from the ISS and High Mountain Observatories in association with a flare on July 8, 2014
Y. **Muraki**, D. Lopez, K. Koga, F. Kakimoto, T. Goka, L.X. Gonzalez, S.Masuda, Y. Matsubara, H. Matsumoto, P. Miranda, O. Okudaira, T. Obara, J. Salinas, T. Sako, S. Shibata, R.Ticona, Y. Tsunesada,J.F. Valdes-Galicia, K. Watanabe, T. Yamamoto
Solar Phys. **2016**
Proceeding of the 34th International Cosmic Ray Conference in Hague in August, 2015, **2015**
http://arxiv.org/ftp/arxiv/papers/1508/1508.04923.pdf

Solar Demon – an approach to detecting flares, dimmings, and EUV waves on SDO/AIA images
Emil **Kraaikamp*** and Cis Verbeeck
J. Space Weather Space Clim., 5, A18 (**2015**) **File**
http://www.swsc-journal.org/articles/swsc/pdf/2015/01/swsc140062.pdf

July 9: A partial halo CME was observed after the M1 flare at 00:26 in AR 12113 и после центральной эрупции в ~17 UT.

A closer look at a coronal loop rooted in a sunspot umbra
L. P. **Chitta**, H. Peter, P. R. Young
A&A **201**5
http://arxiv.org/pdf/1512.03831v1.pdf

July 10: A partial halo CME was observed after a morning filament eruption near the southwest limb.

12 July

НАБЛЮДЕНИЕ НЕОБЫЧНОГО СВЕТОВОГО ОБРАЗОВАНИЯ В ТЕНИ ПЯТНА NOAA 12109
Ожогина1 О.А.
Астрономия-**2018** Том 2 Солнечно-земная физика – современное состояние и перспективы С.182
http://www.izmiran.ru/library/eaas2018/eaas-2018-2.pdf

Dynamics of on-disk plumes as observed with Interface Region Imaging Spectrograph, Atmospheric Imaging Assembly and Helioseismic and Magnetic Imager
Vaibhav **Pant**, Laurent Dolla, Rakesh Mazumder, Dipankar Banerjee, S. Krishna Prasad, Vemareddy Panditi
ApJ **2015**
http://arxiv.org/pdf/1505.04473v1.pdf

12-13 July
Absolute velocity measurements in sunspot umbrae
J. **Löhner-Böttcher**, W. Schmidt, R. Schlichenmaier, H.-P. Doerr, T. Steinmetz, R. Holzwarth
A&A **2018**
https://arxiv.org/pdf/1804.08304.pdf

14 July
Geoeffective Properties of Solar Transients and Stream Interaction Regions **Review**
E. K. J. **Kilpua**, A. Balogh, R. von Steiger,Y. D. Liu
Space Science Reviews Volume 212, Issue 3–4, pp 1271–1314 **2017**
https://link.springer.com/content/pdf/10.1007%2Fs11214-017-0411-3.pdf

15 July

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

Comparing UV/EUV line parameters and magnetic field in a quiescent prominence with tornadoes
P. J. **Levens**, N. Labrosse, B. Schmieder, A. López Ariste, L. Fletcher
A&A **2017**
https://arxiv.org/pdf/1708.04606.pdf

Magnetic field in atypical prominence structures: Bubble, tornado and eruption
P. J. **Levens**, B. Schmieder, A. López Ariste, N. Labrosse, K. Dalmasse, B. Gelly
2016
http://arxiv.org/pdf/1605.05964v1.pdf

On the plasma and magnetic field structure of prominence legs
Peter **Levens**, Nicolas Labrosse, Brigitte Schmieder & Arturo López Ariste
UKSP Nugget #55, March **2015**
http://www.uksolphys.org/?p=9654

Structure of prominence legs: Plasma and magnetic field
P. J. **Levens**, B. Schmieder, N. Labrosse, A. López Ariste
2015
http://arxiv.org/pdf/1512.04727v1.pdf

17 July
Strong non-radial propagation of energetic electrons in solar corona
A. **Klassen**, N. Dresing, R. Gómez-Herrero, B. Heber, and A. Veronig
A&A **2018**
http://www.ieap.uni-kiel.de/et/people/klassen/32041_Klassen.pdf

3He-Rich Solar Energetic Particles in Helical Jets on the Sun

Radoslav **Bucik**, Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck, Raul Gomez-Herrero, Nariaki V. Nitta
ApJ **2017**
https://arxiv.org/pdf/1711.09394.pdf

Reconstruction of a helical prominence in 3D from IRIS spectra and images
B. **Schmieder**, M. Zapiór A. López Ariste, P. Levens, N. Labrosse, R. Gravet
A&A **2017**
https://arxiv.org/pdf/1706.08078.pdf

18 July

Sequential eruptions triggered by flux emergence - observations and modeling
Sally **Dacie**, Tibor Torok, Pascal Demoulin, Mark Linton, Cooper Downs, Lidia van Driel-Gesztelyi, David Long, James Leake
ApJ **2018**
https://arxiv.org/pdf/1807.00020.pdf

Horizontal flow fields in and around a small active region-- The transition period between flux emergence and decay
M. **Verma**, C. Denker, H. Balthasar, C. Kuckein, S.J. González Manrique, M. Sobotka, N. Bello González, S. Hoch, A. Diercke, P. Kummerow, T. Berkefeld, M. Collados, A. Feller, A. Hofmann, F. Kneer, A. Lagg, J. Löhner-Böttcher, H. Nicklas, A. Pastor Yabar, R. Schlichenmaier, D. Schmidt, W. Schmidt, M. Schubert, M. Sigwarth, S.K. Solanki, D. Soltau, J. Staude, K.G. Strassmeier, R. Volkmer, O. von der Lühe, T. Waldmann
A&A **2016**
http://arxiv.org/pdf/1605.07462v1.pdf

Flows in and around active region NOAA12118 observed with the GREGOR solar telescope and SDO/HMI
M. **Verma**, C. Denker, H. Balthasar, C. Kuckein, S.J. González Manrique, M. Sobotka,
ASP Conf. Series - Coimbra solar physics meeting: Grounds-based solar observations in the space instrumentation era , I. Dorotovic, C. Fischer, and M. Temmer (eds.) **2016**
http://arxiv.org/pdf/1603.01109v1.pdf

19 July

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

3He-Rich Solar Energetic Particles in Helical Jets on the Sun
Radoslav **Bucik**, Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck, Raul Gomez-Herrero, Nariaki V. Nitta
ApJ **2017**
https://arxiv.org/pdf/1711.09394.pdf

20 July - During the early hours, a CME exploded from the far side (near the eastern limb) of the sun.
3He-Rich Solar Energetic Particles in Helical Jets on the Sun
Radoslav **Bucik**, Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck, Raul Gomez-Herrero, Nariaki V. Nitta
ApJ **2017**
https://arxiv.org/pdf/1711.09394.pdf

21 Jul

Diffuse solar coronal features and their spicular footpoints
Nikolina **Milanović**, Lakshmi Pradeep Chitta, Hardi Peter
A&A **2023**
https://arxiv.org/pdf/2303.13161.pdf

22-25 July

Detection of Solar Wind Disturbances: Mexican Array Radio Telescope IPS Observations at 140 MHz
E. **Romero-Hernandez**, J. A. Gonzalez-Esparza, E. Aguilar-Rodriguez, V. Ontiveros-Hernandez, P. Villanueva-Hernandez
Solar Phys. Volume 290, Issue 9, pp 2553-2566 **2015**

24 July

Asymmetry of the spectral lines of the coronal hole and quiet Sun in the transition region
Razieh **Hosseini**, Pradeep Kayshap, Nasibe Alipour, Hossein Safari
MNRAS **2024**
https://arxiv.org/pdf/2402.01628.pdf

A Model for the Coupled Eruption of a Pseudostreamer and Helmet Streamer
P. F. **Wyper**, S. K. Antiochos, C. R. DeVore, B. J. Lynch, J. T. Karpen, P. Kumar
ApJ **2021**
https://arxiv.org/pdf/2101.01962.pdf

Coronal heating and solar wind formation in quiet Sun and coronal holes: a unified scenario
Durgesh **Tripathi**, V. N. Nived, Sami K Solanki
ApJ **2020**
https://arxiv.org/pdf/2011.09803.pdf

25 July

Morphology of Solar Type II Bursts Caused by Shock Propagation through Turbulent and Inhomogeneous Coronal Plasma
Artem **Koval**1, Aleksander Stanislavsky2,3, Marian Karlický1, Bing Wang4, Serge Yerin2, Aleksander Konovalenko2, and Miroslav Bárta1
2023 ApJ 952 51
https://iopscience.iop.org/article/10.3847/1538-4357/acdbcc/pdf

The Properties of the Solar Corona and Its Connection to the Solar Wind **Review**
Steven R. **Cranmer** (CU Boulder), Amy R. Winebarger (NASA/MSFC)
Annual Review of Astronomy and Astrophysics, volume 57 (**2019**)
https://arxiv.org/pdf/1811.00461.pdf

26 July

Asymmetry of the spectral lines of the coronal hole and quiet Sun in the transition region
Razieh **Hosseini**, Pradeep Kayshap, Nasibe Alipour, Hossein Safari
MNRAS **2024**
https://arxiv.org/pdf/2402.01628.pdf

Coronal heating and solar wind formation in quiet Sun and coronal holes: a unified scenario
Durgesh **Tripathi**, V. N. Nived, Sami K Solanki

ApJ **2020**
https://arxiv.org/pdf/2011.09803.pdf

27 July

High-resolution spectropolarimetric observations of the temporal evolution of magnetic fields in photospheric bright points

Peter H. **Keys**, Aaron Reid, Mihalis Mathioudakis, Sergiy Shelyag, Vasco M. J. Henriques, Rebecca L. Hewitt, Dario Del Moro, Shahin Jafarzadeh, David B. Jess, Marco Stangalini
A&A **2019**
https://arxiv.org/pdf/1911.08436.pdf

The magnetic properties of photospheric magnetic bright points with high resolution spectropolarimetry

Peter H. **Keys**, Aaron Reid, Mihalis Mathioudakis, Sergiy Shelyag, Vasco M. J. Henriques, Rebecca L. Hewitt, Dario Del Moro, Shahin Jafarzadeh, David B. Jess, Marco Stangalini
MNRAS **2019**
https://arxiv.org/pdf/1906.07687.pdf

A compact solar UV burst triggered in a magnetic field with a fan-spine topology

L. P. **Chitta**, H. Peter, P. R. Young, Y.-M. Huang
A&A **2017**
https://arxiv.org/pdf/1706.08059.pdf

sTools - a data reduction pipeline for the GREGOR Fabry-Pérot Interferometer and the High-resolution Fast Imager at the GREGOR solar telescope

C. **Kuckein** (1), C. Denker (1), M. Verma (1), H. Balthasar (1), S. J. González Manrique (1 and 2), R. E. Louis (1), A. Diercke (1 and 2) ((1) Leibniz-Institut für Astrophysik Potsdam, (2) Universität Potsdam, Institut für Physik and Astronomie)
Fine Structure and Dynamics of the Solar Atmosphere Proceedings IAU Symposium No. 327, **2017**
https://arxiv.org/pdf/1701.01670v1.pdf

28 July

Transverse motions in sunspot super-penumbral fibrils

R. J. **Morton**, K. Mooroogen, V. M. J. Henriques
Special Issue of the Philosophical Transactions of the Royal Society A **2020**
https://arxiv.org/pdf/2012.07394.pdf

Umbral chromospheric fine structure and umbral flashes modelled as one: the corrugated umbra

Vasco M. J. **Henriques**, Chris J. Nelson, Luc H. M. Rouppe van der Voort, Mihalis Mathioudakis
A&A **2020**
https://arxiv.org/pdf/2008.05482.pdf

Propagation of Waves above a Plage as Observed by IRIS and SDO

P. **Kayshap**, A.K. Srivastava, S.K. Tiwari, P. Jelinek, M. Mathioudakis
A&A **2019**
https://arxiv.org/pdf/1910.11557.pdf

Chromospheric Inversions of a Micro-flaring Region

A. **Reid**, V. Henriques, M. Mathioudakis, J. G. Doyle, T. Ray
ApJ **2017**
https://arxiv.org/pdf/1707.00029.pdf

The formation of small-scale umbral brightenings in sunspot atmospheres

C. J. **Nelson**, V. M. J. Henriques, M. Mathioudakis, F. P. Keenan
A&A **2017**
https://arxiv.org/pdf/1705.05617.pdf

July 30: A **filament eruption** in the northeast quadrant after 05h UTC was associated with a **partial halo CME**.

The formation of IRIS diagnostics VIII. IRIS observations in the C II 133.5 nm multiplet
Bhavna **Rathore**, Tiago M. D. Pereira, Mats Carlsson, Bart De Pontieu
ApJ **2015**
http://arxiv.org/pdf/1510.04845v1.pdf

31 July

Spectral Analysis of Solar Radio Type III Bursts from 20 kHz to 410 MHz
K. Sasikumar **Raja**, Milan Maksimovic, Eduard P. Kontar, Xavier Bonnin, Philippe Zarka, Laurent Lamy, Hamish Reid, Nicole Vilmer, Alain Lecacheux, Vratislav Krupar, Baptiste Cecconi, Lahmiti Nora, Laurent Denis
ApJ **2021**
https://arxiv.org/pdf/2110.10935.pdf

Round-Trip Slipping Magnetic Reconnection Observed in a Fan-Spine Jet
Yuandeng **Shen**, Zhining Qu, Chengrui Zhou, Yadan Duan, Zehao Tang, Ding Yuan
ApJL **2019**
https://arxiv.org/pdf/1910.05472.pdf

31 July -1 Aug

Solar science with the Atacama Large Millimeter/submillimeter Array - A revolutionizing new view of our Sun **Review**
S. **Wedemeyer**, T. Bastian, R. Brajsa, M. Barta, H. Hudson, G. Fleishman, M. Loukitcheva, B. Fleck, E. P. Kontar, B. De Pontieu, S. K. Tiwari, Y. Kato, R. Soler, P. Yagoubov, J. H. Black, P. Antolin, E. Scullion, S. Gun'ar, N. Labrosse, A. O. Benz, H.-G. Ludwig, P. Hauschildt, J. G. Doyle, V. M. Nakariakov, S. K. Solanki, S. M. White, T. Ayres, P. Heinzel, M. Karlicky, T. Van Doorsselaere, D. Gary,C. E. Alissandrakis, A. Nindos, L. Rouppe van der Voort, M. Shimojo, T. Zaqarashvili, E. Perez
Space Sci. Rev. **2015**
http://arxiv.org/pdf/1504.06887v2.pdf

August 1: - A central **filament eruption and coronal wave** in the northern hemisphere 10:30-13:00 UTC was associated with **a partial halo CME с необычным боковым расширеием на С3.**.
- **A weak halo CME** was observed after an M1 flare in AR12127 at ~18 UT.

Magnetic Eruption from a Three-ribbon Flare
Ju **Jing**1, Jeongwoo Lee1, Mia Mancuso1, Qin Li1, Nian Liu1, Satoshi Inoue1, Yan Xu1, and Haimin Wang1
2024 ApJ 972 110
https://iopscience.iop.org/article/10.3847/1538-4357/ad5ce3/pdf

Propagation Properties of Sunspots Umbral Oscillations in Horizontal and Vertical Directions
Wei **Wu**1,2, Jiang-tao Su1,2, Jie Chen2, Xiao-shuai Zhu3, and Robert Sych4
2023 ApJ 958 10

https://iopscience.iop.org/article/10.3847/1538-4357/acf457/pdf

Solar Flare Ribbon Fronts I: Constraining flare energy deposition with IRIS spectroscopy
Vanessa **Polito**, Graham S. Kerr, Yan Xu, Viacheslav M. Sadykov, Juraj Lorincik
https://arxiv.org/pdf/2211.05333.pdf
ApJ **2022**
https://arxiv.org/pdf/2211.05333.pdf

A Primer on Focused Solar Energetic Particle Transport **Review**
Basic Physics and Recent Modelling Results
Jabus van den **Berg**, Du Toit Strauss & Frederic Effenberger
Space Science Reviews volume 216, Article number: 146 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11214-020-00771-x.pdf

High Resolution Observations of Solar Flares
Haimin **Wang**
Fleishman's Solar Physics Webinar 18-Sep-**2020**
https://youtu.be/GZWctGWzvTY

Signatures of Magnetic Reconnection at the Footpoints of Fan-shaped Jets on a Light Bridge Driven by Photospheric Convective Motions
Xianyong **Bai**1,2, Hector Socas-Navarro3,4, Daniel Nóbrega-Siverio5,6, Jiangtao Su1,2, Yuanyong Deng1,2, Dong Li7,8, Wenda Cao9, and Kaifan Ji1
2019 ApJ 870 90
http://iopscience.iop.org/article/10.3847/1538-4357/aaf1d1/pdf
https://arxiv.org/pdf/1811.03723.pdf

Energy Build-up and Triggering Leading to a M1.5 Flare on 1 August 2014
S. **Liu**, J. T. Su
Solar Physics December **2018**, 293:167

Interplanetary transport of solar near-relativistic electrons on 2014 August 1 over a narrow range of heliolongitudes
Daniel **Pacheco**, Neus Agueda, Raúl Gómez-Herrero and Angels Aran
J. Space Weather Space Clim. **2017**, 7, A30
https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170022.pdf

Unexpected spatial intensity distributions and onset timing of solar electron events observed by closely spaced STEREO spacecraft
A. **Klassen**1, N. Dresing1, R. Gomez-Herrero2, B. Heber1, R. Muller-Mellin1
A&A **2016**
http://www.ieap.uni-kiel.de/et/people/klassen/Klassen_28734.pdf

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

Ultra-narrow Negative Flare Front Observed in Helium-10830~Å using the 1.6 m New Solar Telescope
Yan **Xu**, Wenda Cao, Mingde Ding, Lucia Kleint, Jiangtao Su, Chang Liu, Haisheng Ji, Jongchul Chae, Ju Jing, Kyuhyoun Cho, Kyungsuk Cho, Dale Gary, Haimin Wang
2016
http://arxiv.org/pdf/1601.04729v1.pdf

Comparison of 30 THz impulsive burst time development to microwaves, H-alpha, EUV, and GOES soft X-rays
R. **Miteva**, P. Kaufmann, D. P. Cabezas, M. M. Cassiano, L. O. T. Fernandes, S. L. Freeland, M. Karlicky, A. Kerdraon, A. S. Kudaka, M. L. Luoni, R. Marcon, J.-P. Raulin, G. Trottet, S. M. White
A&A **201**5
http://arxiv.org/pdf/1512.01763v1.pdf

2 Aug
Penumbral Waves driving Solar chromospheric fan-shaped jets
A. **Reid**, V. M. J. Henriques, M. Mathioudakis, T. Samanta
ApJL **2018**
https://arxiv.org/pdf/1802.07537.pdf

2-4 Aug
Spectral Characteristics of the He i D3 Line in a Quiescent Prominence Observed by THEMIS
Július **Koza**, Ján Rybák Peter Gömöry, Matúš Kozák, Arturo López Ariste
Solar Physics August **2017**, 292:98
https://arxiv.org/pdf/1712.09255.pdf

5 Aug

Propagation Properties of Sunspots Umbral Oscillations in Horizontal and Vertical Directions
Wei **Wu**1,2, Jiang-tao Su1,2, Jie Chen2, Xiao-shuai Zhu3, and Robert Sych4
2023 ApJ 958 10
https://iopscience.iop.org/article/10.3847/1538-4357/acf457/pdf

High-precision Multichannel Solar Image Registration Using Image Intensity
Bo **Liang**1, Xi Chen1, Lan Yu2, Song Feng6,1, Yangfan Guo1, Wenda Cao3,4, Wei Dai1, Yunfei Yang1, and Ding Yuan5
2022 ApJS 261 10
https://iopscience.iop.org/article/10.3847/1538-4365/ac7232/pdf

Observations of Running Penumbral Waves emerging in a Sunspot
T.G. **Priya**, Wenda Cao, Jiangtao Su, Jie Chen, Xinjie Mao, Yuanyong Deng, Robert Erdélyi
ApJ **2017**
https://arxiv.org/pdf/1711.07145.pdf

Statistical analysis on Dynamic Fibrils observed from NST/BBSO observations
T G **Priya**, Su Jiangtao, Jie Chen, Deng Yuanyong, Debi Prasad Choudhury
Research in Astron. Astrophys. (2012?) **2017**
https://arxiv.org/pdf/1711.06381.pdf

8 Aug, залимбовый пересвет 16:16 ←16s 8s→ A=42/312=0.13 <0.2 не берём
16:06 8s→ A=23*2/312 =0.15

13 Aug
Further Evidence for the Minifilament-Eruption Scenario for Solar Polar Coronal Jets
Tomi K. **Baikie**, Alphonse C. Sterling, Ronald L. Moore, Amanda M. Alexander, David A. Falconer, Antonia Savcheva, Sabrina L. Savage
ApJ **2022**
https://arxiv.org/pdf/2201.08882.pdf

14 Aug

Imaging observations of chromospheric evaporation in a circular-ribbon flare
Q. M. **Zhang**, D. Li, Y. Huang
ApJ **2018**
https://arxiv.org/pdf/1811.11363.pdf

High-Cadence Imaging and Imaging Spectroscopy at the GREGOR Solar Telescope – A Collaborative Research Environment for High-Resolution Solar Physics
C. **Denker**, C. Kuckein, M. Verma, S. J. González Manrique, A. Diercke, H. Enke, J. Klar, H. Balthasar, R. E. Louis, E. Dineva
Astrophysical Journal Supplement Series **2018**
https://arxiv.org/pdf/1802.10146.pdf

15 Aug – ~>16 UT: **значительная центральная/южная эрупция волокна; волокно на 304 А вылетает через северный полюс; слабое гало CME**

16 Aug

Models and data analysis tools for the Solar Orbiter mission
A. Rouillard et al. (MADAWG team)
A&A **2019**
https://www.aanda.org/articles/aa/pdf/forth/aa35305-19.pdf

Data-driven model of the solar corona above an active region
J. **Warnecke** and H. Peter
A&A 623, L12 (**2019**)
https://www.aanda.org/articles/aa/pdf/2019/04/aa35385-19.pdf
https://arxiv.org/pdf/1903.00455.pdf

17 Aug
Dynamics of Explosive Events Observed by the Interface Region Imaging Spectrograph
E. **Tavabi**, S. Zeighami & M. Heydari
Solar Physics volume 297, Article number: 76 (**2022**)
https://doi.org/10.1007/s11207-022-01990-x

19-20 Aug – небольшая длительная буря по Dst, но с коротким выбросом Кр ~7
http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List

Statistical Plasma Properties of the Planar and Nonplanar ICME Magnetic Clouds during Solar Cycles 23 and 24
Zubair I. **Shaikh**1 and Anil N. Raghav2
2022 ApJ 938 146
https://iopscience.iop.org/article/10.3847/1538-4357/ac8f2b/pdf

Coronal mass ejections and their sheath regions in interplanetary space **Review**
Emilia **Kilpua**, Hannu E. J. Koskinen & Tuija I. Pulkkinen
Living Reviews in Solar Physics December **2017**, 14:5 **File**
https://link.springer.com/content/pdf/10.1007%2Fs41116-017-0009-6.pdf

21 Aug – 13:31: **M3.4** E-лимб вспышка

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

Statistical Study of GOES X-ray Quasi-Periodic Pulsations in Solar Flares
Laura A. **Hayes**, Andrew R. Inglis, Steven Christe, Brian Dennis, Peter T. Gallagher
ApJ **2020**
https://arxiv.org/pdf/2004.11775.pdf

EUV Waves Driven by Sudden Expansion of Transequatorial Loops Caused by Solar Coronal Jets
Yuandeng **Shen**, Zehao Tang, Yuhu Miao, Jiangtao Su, Yu Liu
ApJ **2018**
https://arxiv.org/pdf/1805.12309.pdf

H-alpha features with hot onsets. II. A contrail fibril
R.J. **Rutten**, L.H.M. Rouppe van der Voort
A&A **2016**
http://arxiv.org/pdf/1609.07616v1.pdf

21-29 Aug
Absolute velocity measurements in sunspot umbrae
J. **Löhner-Böttcher**, W. Schmidt, R. Schlichenmaier, H.-P. Doerr, T. Steinmetz, R. Holzwarth
A&A **2018**
https://arxiv.org/pdf/1804.08304.pdf

Aug 21-Sep 17
Observations of Slow Solar Wind from Equatorial Coronal Holes
Y.-M. **Wang** and Y.-K. Ko
2019 ApJ 880 146
sci-hub.se/10.3847/1538-4357/ab2add

22 Aug – две небольшие центральные эрупции с корональными волнами
Тип II на нашем спектре

24 Aug – 12:17: восточная (S07E75) **M5.9/2B** вспышка/ эрупция, S5~630, и последующая **SE эрупция, wide CME**

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

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

О возможном различии в формировании корональных выбросов массы двух типов.
Еселевич В.Г., Еселевич М.В., Зимовец И.В.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 8. **2022**. № 2 С. 12–22.
DOI : 10.12737/szf-82202202
https://naukaru.ru/ru/storage/viewWindow/94294

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

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

Fast degradation of the circular flare ribbon on 2014 August 24
Q. M. **Zhang**, S. H. Yang, T. Li, Y. J. Hou, Y. Li
A&A L **2020**
https://arxiv.org/pdf/2004.06837.pdf

Subarcsecond blobs in flare-related coronal jets
Q. M. **Zhang**, L. Ni
ApJ **2018**
https://arxiv.org/pdf/1811.08570.pdf

Alfvén Wave Dissipation in the Solar Chromosphere
S. D. T. **Grant**, D. B. Jess, T. V. Zaqarashvili, C. Beck, H. Socas-Navarro, M. J. Aschwanden, P. H. Keys, D. J. Christian, S. J. Houston, R. L. Hewitt
Nature Physics, 14, 480-483 (**2018**)
https://arxiv.org/ftp/arxiv/papers/1810/1810.07712.pdf

ИССЛЕДОВАНИЕ НАЧАЛЬНОЙ СТАДИИ ФОРМИРОВАНИЯ “ИМПУЛЬСНОГО” КОРОНАЛЬНОГО ВЫБРОСА МАССЫ
Еселевич В., Еселевич М., Зимовец И., Руденко Г.
АЖ Т. 93 №11, 990- **2016**

An imaging study of a complex solar coronal radio eruption
S. W. **Feng**, Y. Chen, H. Q. Song, B. Wang, X. L. Kong
2016
http://arxiv.org/pdf/1608.00073v1.pdf

Tracing the Chromospheric and Coronal Magnetic Field with AIA, IRIS, IBIS, and ROSA Data
M.J. **Aschwanden**, K. Reardon, D. Jess
2016
http://arxiv.org/pdf/1602.02119v1.pdf

Observed Variability of the Solar Mg II h Spectral Line
Donald **Schmit**, Paul Bryans, Bart De Pontieu, Scott McIntosh, Jorrit Leenaarts, Mats Carlsson
2015
http://arxiv.org/pdf/1508.04714v1.pdf

Acceleration phases of a solar filament during its eruption
Hongqiang **Song**, Yao Chen, Jie Zhang, Xin Cheng, Hui Fu, Gang Li
ApJL **2015**
http://arxiv.org/pdf/1504.06062v1.pdf

RHESSI Resumes Observations
Albert **Shih**, Säm Krucker
RHESSI Science Nugget, No. 234, **2014**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/RHESSI_Resumes_Observations

25 Aug – 15:11: западная (N05W36) **M2.0/1B** вспышка, S3~150, a full halo CME
20:21: западная (N05W36) **M2.0/1B** вспышка, S9~310,
слабые мягкие протоны J10~0.1;
Active sunspot AR2146 erupted twice, producing two CMEs and a rapidfire pair of M-class solar flares (M2 @ 1511 UT and M3 @ 2021 UT).

Interferometric imaging, and beam-formed study of a moving Type IV Radio burst with LOFAR
Hongyu **Liu**, Pietro Zucca, Kyung-Suk Cho, Anshu Kumari, Peijin Zhang, Jasmina Magdalenic, Rok-Soon Kim, Sujin Kim, Juhyung Kang
Solar Phys. **2022**
https://arxiv.org/pdf/2208.13670.pdf

Properties and Energetics of Magnetic Reconnection: I. Evolution of Flare Ribbons
Jiong **Qiu**, Jianxia Cheng
Solar Phys. **2022**
https://arxiv.org/pdf/2205.03004.pdf

Excitation of Langmuir waves at shocks and solar type II radio bursts
G. **Mann**1, C. Vocks1, A. Warmuth1, J. Magdalenic2,3, M. Bisi4, E. Carley5, B. Dabrowski6, P. Gallagher5, A. Krankowski6, B. Matyjasiak7, H. Rotkaehl7 and P. Zucca8
A&A 660, A71 (**2022**)
https://doi.org/10.1051/0004-6361/202142201
https://www.aanda.org/articles/aa/pdf/2022/04/aa42201-21.pdf

Fine Structure of a Solar Type II Radio Burst Observed by LOFAR
Jasmina **Magdalenić**1, Christophe Marqué1, Richard A. Fallows2, Gottfried Mann3, Christian Vocks3, Pietro Zucca2, Bartosz P. Dabrowski4, Andrzej Krankowski4, and Valentin Melnik5
2020 ApJL 897 L15
sci-hub.tw/10.3847/2041-8213/ab9abc
https://iopscience.iop.org/article/10.3847/2041-8213/ab9abc/pdf
https://doi.org/10.3847/2041-8213/ab9abc

The Nature and Origin of Moving Solar Radio Bursts Associated with Coronal Mass Ejections
Diana **Morosan**, Emilia Kilpua, Erika Palmerio, Benjamin Lynch, Jens Pomoell, Rami Vainio, Minna Palmroth, Juska Räsänen
EGU2020 Presentation #5379 **File**

A 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

Is the enhancement of type II radio bursts during CME interactions related to the associated solar energetic particle event?
Liu-Guan **Ding**, Zhi-Wei Wang, Li Feng, Gang Li, Yong Jiang
Research in Astronomy and Astrophysics **2018**
https://arxiv.org/pdf/1808.04720.pdf

Fine structure of a type II radio burst observed by LOFAR
Jasmina **Magdalenic**∗1 , Christophe Marque2 , Richard Fallows3 , Gottfried Mann4 , Christian Vocks5 , and Lofar Solar Ksp Core Members

CESRA Abstract 2016
http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v1.pdf

26 Aug

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

Quantifying weak non-thermal solar radio emission at low radio frequencies
Rohit **Sharma**, Divya Oberoi, Mihir Arjunwadkar
ApJ **2017**
https://arxiv.org/pdf/1709.00878.pdf

27 Aug – Буря Dst~-76 nT от двух CMEs 25-ого; в магоблаке почти все поле – южное Bz; сравнительно небольшой фобуш

Formation of a solar filament by magnetic reconnection and coronal condensation
Leping **Li**, Hardi Peter, Lakshmi Pradeep Chitta, Hongqiang Song
ApJL **2021**
https://arxiv.org/pdf/2109.05669.pdf

Excitation of coronal loop oscillations by coronal rain
Petra **Kohutova** and Erwin Verwichte
UKSP Nugget: 88, June **2018**
http://www.uksolphys.org/uksp-nugget/88-excitation-of-coronal-loop-oscillations-by-coronal-rain/

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

Magnetospheric transmissivity for cosmic rays during selected recent events with interplanetary/geomagnetic disturbances
Parnahaj, I. ; Bobík, P. ; Kudela, K.
Journal of Physics: Conference Series, Volume 632, Issue 1, article id. 012064 (**2015**).

28 Aug

On the Relative Brightness of Coronal Holes at Low Frequencies
M. M. **Rahman**, Patrick I. McCauley, Iver H. Cairns
Solar Physics January **2019**, 294:7
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1396-8.pdf

Is the enhancement of type II radio bursts during CME interactions related to the associated solar energetic particle event?
Liu-Guan **Ding**, Zhi-Wei Wang, Li Feng, Gang Li, Yong Jiang
Research in Astronomy and Astrophysics **2018**
https://arxiv.org/pdf/1808.04720.pdf

28-20 Aug
The Low-Frequency Solar Corona in Circular Polarization

Patrick I. **McCauley**, Iver H. Cairns, Stephen M. White, Surajit Mondal, Emil Lenc, John Morgan, Divya Oberoi
Solar Phys. **2019**
https://arxiv.org/pdf/1907.10878.pdf

29 Aug

Multiwavelength observations of a breakout jet at an active region periphery
Pradeep **Kayshap**, Judith T. Karpen, Pankaj Kumar
Solar Phys. **2024**
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Origin of Quasi-Periodic Pulsation at the Base of Kink Unstable Jet
Sudheer K. **Mishra**, Kartika Sangal, Pradeep Kayshap, Petr Jelinek, A.K. Srivastava, S.P. Rajaguru
ApJ **2023**
https://arxiv.org/pdf/2301.01534.pdf

A window into magnetic reconnection: IRIS observations of the consequences of reconnection during solar flares **Review**
Katharine **Reeves**
Front. Astron. Space Sci. 9: 1041951. **2022**
https://doi.org/10.3389/fspas.2022.1041951
https://www.frontiersin.org/articles/10.3389/fspas.2022.1041951/pdf

CUSP-SHAPED STRUCTURE OF A JET OBSERVED BY IRIS AND SDO
Yuzong **Zhang** and Jun Zhang
ApJ 834 79 **2017**
http://iopscience.iop.org/article/10.3847/1538-4357/834/1/79/pdf

Tether-cutting Reconnection between Two Solar Filaments Triggering Outflows and a Coronal Mass Ejection
Huadong **Chen**, Jun Zhang, Leping Li, Suli Ma
ApJLetter **2016**
http://arxiv.org/pdf/1602.00378v1.pdf

30 Aug

The Frequency-dependent Damping of Slow Magnetoacoustic Waves in a Sunspot Umbral Atmosphere
S. Krishna **Prasad**, D. B. Jess, T. Van Doorsselaere, G. Verth, R. J. Morton, V. Fedun, R. Erdelyi, D. J. Christian
ApJ **2017**
https://arxiv.org/pdf/1708.04835.pdf

Tracing the Chromospheric and Coronal Magnetic Field with AIA, IRIS, IBIS, and ROSA Data
M.J. **Aschwanden**, K. Reardon, D. Jess
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http://arxiv.org/pdf/1602.02119v1.pdf

High-resolution Observations of a Flux Rope with the Interface Region Imaging Spectrograph
Ting **Li**, Jun Zhang
Solar Phys. **2015**
http://arxiv.org/pdf/1508.07409v1.pdf

31 Aug

Statistical Analysis and Catalog of Non-polar Coronal Holes Covering the SDO-Era Using CATCH

Stephan G. **Heinemann**, Temmer Manuela, Heinemann Niko, Dissauer Karin, Samara Evangelia, Jerčić Veronika, Stefan J. Hofmeister, Astrid M Veronig

Solar Phys. 294:144 **2019**

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https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1539-y.pdf

Wavelet-Based Characterization of Small-Scale Solar Emission Features at Low Radio Frequencies

Akshay **Suresh**, Rohit Sharma, Divya Oberoi, Srijan B. Das, Victor Pankratius, Brian Timar, Colin J. Lonsdale, Judd D. Bowman, Frank Briggs, Roger J. Cappallo, Brian E. Corey, …

ApJ **843** 19 **2017**

https://arxiv.org/pdf/1612.01016v1.pdf

http://sci-hub.cc/10.3847/1538-4357/aa774a

1 Sept, залимбовый пересвет 11:01 B=57*2/296=0.39

залимбовый пересвет 22:16 ←16s 8s→ B=43/296=0.15

22:21 8s→ B=32*2/296=**0.22**

1 Sept – восточная сильно залимбовая (E~120) вспышка балла >M5 (оценка по длине пересвета) в ~11 UT дала протонное событие с медленным возрастанием в течение 2 суток до J10~0,4 pfu с очень жестким спектром; крупный CME, Prolonged γ-ray flare

Estimating the lateral speed of a fast shock driven by a coronal mass ejection at the location of solar radio emissions

S. **Normo**1,2, D. E. Morosan1,2, E. K. J. Kilpua1 and J. Pomoell1

A&A, 686, A159 (**2024**)

https://doi.org/10.1051/0004-6361/202449277

https://www.aanda.org/articles/aa/pdf/2024/06/aa49277-24.pdf

Inter-planetary type-IV solar radio bursts: A comprehensive catalog and statistical results

Atul **Mohan**, Nat Gopalswamy, Anshu Kumari, Sachiko Akiyama, Sindhuja G

ApJ **2024**

https://arxiv.org/pdf/2406.00194

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**

Localization of the Gamma-Ray Emission Region in the 1 September 2014 Behind-the-Limb Solar Flare According to the Fermi/LAT Data.

Kochanov, A.A., Kiselev, V.I., Grechnev, V.V., & A. M. Uralov

Sol Phys 299, 18 (**2024**).

https://doi.org/10.1007/s11207-024-02264-4

https://link.springer.com/content/pdf/10.1007/s11207-024-02264-4.pdf

Transverse Oscillation of Prominence and Filament Induced by an Extreme-ultraviolet Wave from the Far Side of the Sun

Yanjie **Zhang**1, Qingmin Zhang1,2, De-chao Song1, and Haisheng Ji1

2024 ApJ 963 140
https://iopscience.iop.org/article/10.3847/1538-4357/ad206d/pdf
https://arxiv.org/pdf/2401.15858.pdf

The coupling of an EUV coronal wave and ion acceleration in a Fermi-LAT behind-the-limb solar flare
Melissa **Pesce-Rollins**, Nicola Omodei, Sam Krucker, Niccol`o Di Lalla, Wen Wang, Andrea F. Battaglia, Alexander Warmuth, Astrid M. Veronig, Luca Baldini
ApJ **2022**
https://arxiv.org/pdf/2205.04760.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

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

On the origin of hard X-ray emissions from the behind-the-limb flare on 2014 September 1
Yihong **Wu**, Alexis P. Rouillard, Athanasios Kouloumvakos, Rami Vainio, Alexandr N. Afanasiev, Illya Plotnikov, Ronald J. Murphy, Gottfried J. Mann, Alexander Warmuth
ApJ **2021**
https://arxiv.org/pdf/2101.05401.pdf

Search for GeV Neutrino Emission During Intense Gamma-Ray Solar Flares with the IceCube Neutrino Observatory
R. **Abbasi**, M. Ackermann, J. Adams, J. A. Aguilar, M. Ahlers, ……..
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Radio Observations of Coronal Mass Ejection Initiation and Development in the Low Solar Corona **Review**
Eoin P. **Carley** , Nicole Vilmer and Angelos Vourlidas
Front. Astron. Space Sci. 7:551558. **2020** **File**
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Interplanetary Radio Emission: A Summary of Recent Results **Review**
Nat **Gopalswamy**
Journal of Computational and Interdisciplinary Science **2020**
https://arxiv.org/ftp/arxiv/papers/2008/2008.09222.pdf **File**

Positron Processes in the Sun **Review**
Nat **Gopalswamy**
Atoms **2020**
https://arxiv.org/ftp/arxiv/papers/2004/2004.04280.pdf

Source of Energetic Protons in the 2014 September 1 Sustained Gamma-ray Emission Event
N. Gopalswamy, P. Mäkelä, S. Yashiro, H. Xie, S. Akiyama, N. Thakur

Solar Phys. **295**, Article number: 18 **2020** **File**
https://arxiv.org/ftp/arxiv/papers/2001/2001.03816.pdf
https://link.springer.com/content/pdf/10.1007/s11207-020-1590-8.pdf
CESRA #370 Feb **2020**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/The_Temporal_and_Spatial_Extension_of_Gamma-ray_Emission_from_the_Sun

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

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

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

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

Probing the Puzzle of Behind-the-limb γ-Ray Flares: Data-driven Simulations of Magnetic Connectivity and CME-driven Shock Evolution
Meng **Jin**1,2, Vahe Petrosian3,4, Wei Liu1,5, Nariaki V. Nitta1, Nicola Omodei3, Fatima Rubio da Costa3, Frederic Effenberger5,6, Gang Li7, Melissa Pesce-Rollins8, Alice Allafort3.....
2018 ApJ 867 122
sci-hub.tw/10.3847/1538-4357/aae1fd **File**

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

Energetic Gamma-Ray Emission from Solar Flares
Ervin **Kafexhiu**1, Carlo Romoli1,2, Andrew M. Taylor3, and Felix Aharonian

2018 ApJ 864 148
https://sci-hub.tw/10.3847/1538-4357/aad801

Implications of loop-top origin for microwave, hard X-ray, and low-energy gamma-ray emissions from behind the limb flares
Vahé **Petrosian**
ApJ **2018**
https://arxiv.org/pdf/1808.07161.pdf

Radio, Hard X-Ray, and Gamma-Ray Emissions Associated with a Far-Side Solar Event
V. **Grechnev**1 ¢ V. Kiselev1 ¢K. Kashapova1;2 ¢ A. Kochanov1;2 ¢I. Zimovets3;4;5 ¢ A. Uralov1 ¢ B. Nizamov6;7 ¢ I. Grigorieva8 ¢ D. Golovin3 ¢ M. Litvak3 ¢I. Mitrofanov3 ¢ A. Sanin3
Solar Phys. **2018 File**
https://arxiv.org/pdf/1808.10103.pdf

A remarkable, but confused, coronal hard X-ray source
Alexandra **Lysenko**, Larisa Kashapova, Hugh Hudson
RHESSI Science Nuggets #325 June **2018**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/A_remarkable,_but_confused,_coronal_hard_X-ray_source

Data-driven Simulations of Magnetic Connectivity in Behind-the-Limb γ-ray Flares and Associated Coronal Mass Ejections
Meng **Jin**, Vahe Petrosian, Wei Liu, Nariaki V. Nitta, Nicola Omodei, Fatima Rubio da Costa, Frederic Effenberger, Gang Li, Melissa Pesce-Rollins, Alice Allafort, Ward Manchester IV
ApJ **2018**
https://arxiv.org/pdf/1807.01427.pdf

Catalogue of >55 MeV Wide-longitude Solar Proton Events Observed by SOHO, ACE, and the STEREOs at ≈1 AU During 2009 – 2016
Miikka **Paassilta**, Athanasios Papaioannou, Nina Dresing, Rami Vainio…
Solar Physics April **2018**, 293:70
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1284-7.pdf

X-Ray, Radio and SEP Observations of Relativistic Gamma-Ray Events **Review**
Karl-Ludwig **Klein**, Kostas Tziotziou, Pietro Zucca, Eino Valtonen, Nicole Vilmer, Olga E. Malandraki, Clarisse Hamadache, Bernd Heber, and Jürgen Kiener
In: O.E. Malandraki, N.B. Crosby (eds.), Solar Particle Radiation Storms Forecasting and Analysis Chapter 8, **2018**
https://link.springer.com/content/pdf/10.1007%2F978-3-319-60051-2.pdf
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Searching for Extreme SEP Events with STEREO,
Cohen, C. M. S., J. G. Luhmann, R. A. Mewaldt, M. L. Mays, H. M. Bain, Y. Li, and C. O. Lee (**2017**), Proceedings of 35th ICRC Conference, PoS(ICRC2017), id.134, 1–8.
https://pos.sissa.it/301/134/pdf

The Relationship between Long-Duration Gamma-Ray Flares and Solar Cosmic Rays
Hugh S. **Hudson**
Space Weather of the Heliosphere: Processes and Forecasts (eds. Claire Foullon and Olga Malandraki), IAU Symposium 335, **2017**
https://arxiv.org/pdf/1711.05583.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**

Estimation of a Coronal Mass Ejection Magnetic Field Strength using Radio Observations of Gyrosynchrotron Radiation
Eoin P. **Carley**, Nicole Vilmer, Paulo J. A. Simões, Brían Ó Fearraigh
A&A **2017**
https://arxiv.org/pdf/1709.05184.pdf

The magnetic connectivity of coronal shocks to the visible solar surface during long-duration γ-ray events
Illya **Plotnikov**, Alexis P. Rouillard, Gerald H. Share
A&A **2017**
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Fermi-LAT Observations of High-energy Behind-the-limb Solar Flares
M. **Ackermann**1, A. Allafort2, L. Baldini3, G. Barbiellini4,5, D. Bastieri6,7, R. Bellazzini8, E. Bissaldi9, R. Bonino10,11, E. Bottacini2, J. Bregeon12Show full author list
2017 ApJ 835 219
http://sci-hub.cc/doi/10.3847/1538-4357/835/2/219

Time Evolution of Elemental Ratios in Solar Energetic Particle events
P. **Zelina**, S. Dalla, C. M. S. Cohen, R. A. Mewaldt
ApJ **2016**
https://arxiv.org/pdf/1612.00758v1.pdf

Fermi Large Area Telescope observations of high-energy gamma-ray emission from behind-the-limb solar flares
Melissa **Pesce-Rollins**, Nicola Omodei, Vahe' Petrosian, Wei Liu, Fatima Rubio da Costa, Alice Allafort, for the Fermi-LAT Collaboration
The 34th International Cosmic Ray Conference Proceedings **2015**
http://arxiv.org/pdf/1507.04303v1.pdf

2 Sept – A central filament eruption, mainly in the northwest quadrant and with extensions into the southwest and northeast quadrant was observed from approximately **16** UT. A partial halo CME
An enormous filament of dark plasma at 304 A, which had been snaking across the face of the sun for days, became unstable and erupted.

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

ДВИЖЕНИЯ И КОЛЕБАНИЯ В ВОЛОКНЕ ПЕРЕД ЭРУПЦИЕЙ
МАШНИЧ Г. П.1, БАШКИРЦЕВ В. С.
АЖ, Том: 93 Номер: 2 Год: **2016** Страницы: 247

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

3 Sept – 13:54: центральная (S14W18) M2.5 вспышка, S9~190

Which detectors can I use to analyze this flare?
Brian **Dennis** and Kim Tolbert
RHESSI Science Nuggets, #235, **2014**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Which_detectors_can_I_use_to_analyze_this_flare%3F

5-6 September
Evidence for a Transition Region response to penumbral microjets in sunspots
Gregal J. M. **Vissers**, Luc H. M. Rouppe van der Voort, Mats Carlsson
ApJL **2015**
http://arxiv.org/pdf/1509.01402v1.pdf

6 Sept - According to NOAA analysts, a CME hit Earth's magnetic field on Sept. 6th at 1525 UT. However, the impact was weak and did not spark geomagnetic storms. **Значительный Forbush.**

A Machine Learning Approach to Correcting Atmospheric Seeing in Solar Flare Observations
John A. **Armstrong**, Lyndsay Fletcher
MNRAS **2020**
https://arxiv.org/pdf/2011.12814.pdf

The effect of a solar flare on chromospheric oscillations
David C. L. **Millar**, Lyndsay Fletcher, Ryan O. Milligan
MNRAS **2020**
https://arxiv.org/pdf/2007.10301.pdf

IRIS Si IV Line Profiles at Flare Ribbons as Indications of Chromospheric Condensation
Ke **Yu**, Y. Li, M. D. Ding, D. Li, Yi-An Zhou, Jie Hong
ApJ **2020**
https://arxiv.org/pdf/2005.02029.pdf

RADYNVERSION: Learning to Invert a Solar Flare Atmosphere with Invertible Neural Networks
Christopher M. J. **Osborne**, John A. Armstrong, Lyndsay Fletcher
ApJ **2019**
https://arxiv.org/pdf/1901.08626.pdf

Non-damping oscillations at flaring loops
D. **Li**, D. Yuan, Y. N. Su, Q. M. Zhang, W. Su, Z. J. Ning
A&A **2018**
https://arxiv.org/pdf/1806.03573.pdf

Decameter Stationary Type IV Burst in Imaging Observations on the 6th of September 2014
Artem **Koval**, Aleksander Stanislavsky, Yao Chen, Shiwei Feng, Aleksander Konovalenko, Yaroslav Volvach
ApJ **2016**
http://arxiv.org/pdf/1606.00990v1.pdf

Observation of 2011-02-15 X2.2 flare in Hard X-ray and Microwave
Natsuha **Kuroda**, Haimin Wang, Dale E. Gary
ApJ **807** 124 **2015**
http://arxiv.org/pdf/1506.01424v1.pdf

Temporal evolution of chromospheric evaporation: case studies of the M1.1 flare on 2014 September 6 and X1.6 flare on 2014 September 10
Hui **Tian**, Peter R. Young, Katharine K. Reeves, Bin Chen, Wei Liu, Sean McKillop
ApJ **2015**
http://arxiv.org/pdf/1505.02736v1.pdf

6-15 Sep

Data-driven MHD simulation of a sunspot rotating active region leading to solar eruption
Chaowei **Jiang**, Xueshang Feng, Xinkai Bian, Peng Zou, Aiying Duan, Xiaoli Yan, Qiang Hu, Wen He, Xinyi Wang, Pingbing Zuo, Yi Wang
A&A 2023
https://arxiv.org/pdf/2308.06977.pdf

A Semi-Automatic Method to Measure the Rotation of Sunspots
Daniel **Brown** & Andrew Walker
Solar Physics volume 296, Article number: 48 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01787-4.pdf

7 September
Type II Radio Emission From Sun To Earth And In The Lower Corona
Joachim **Schmidt**∗1 and Iver Cairns
CESRA Abstract **2016**
http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v1.pdf

Solar science with the Atacama Large Millimeter/submillimeter Array - A revolutionizing new view of our Sun **Review**
S. **Wedemeyer**, T. Bastian, R. Brajsa, M. Barta, H. Hudson, G. Fleishman, M. Loukitcheva, B. Fleck, E. P. Kontar, B. De Pontieu, S. K. Tiwari, Y. Kato, R. Soler, P. Yagoubov, J. H. Black, P. Antolin, E. Scullion, S. Gun'ar, N. Labrosse, A. O. Benz, H.-G. Ludwig, P. Hauschildt, J. G. Doyle, V. M. Nakariakov, S. K. Solanki, S. M. White, T. Ayres, P. Heinzel, M. Karlicky, T. Van Doorsselaere, D. Gary,C. E. Alissandrakis, A. Nindos, L. Rouppe van der Voort, M. Shimojo, T. Zaqarashvili, E. Perez
Space Sci. Rev. **2015**
http://arxiv.org/pdf/1504.06887v2.pdf

8 September

Data-driven MHD simulation of a sunspot rotating active region leading to solar eruption
Chaowei **Jiang**, Xueshang Feng, Xinkai Bian, Peng Zou, Aiying Duan, Xiaoli Yan, Qiang Hu, Wen He, Xinyi Wang, Pingbing Zuo, Yi Wang
A&A 2023
https://arxiv.org/pdf/2308.06977.pdf

MHD Modeling of Solar Coronal Magnetic Evolution Driven by Photospheric Flow
Chaowei **Jiang***, Xinkai Bian, Tingting Sun and Xueshang Feng
Front. Phys., May **2021** |
https://doi.org/10.3389/fphy.2021.646750

Sunspot Rotation as a Driver of Major Solar Eruptions in NOAA Active Region 12158
P. **Vemareddy**, X. Cheng, B. Ravindra
ApJ **2016**
http://arxiv.org/pdf/1607.03806v1.pdf

8-10 Sep

Rotation and interaction of the September 8 and 10, 2014 CMEs tested with EUHFORIA
Anwesha **Maharana**, Camilla Scolini, Brigitte Schmieder, Stefaan Poedts
A&A **2023**
https://arxiv.org/pdf/2305.06881.pdf

MHD Modeling of Solar Coronal Magnetic Evolution Driven by Photospheric Flow
Chaowei **Jiang**, Xinkai Bian, Tingting Sun, Xueshang Feng
Frontiers in Physics **2021**
https://arxiv.org/pdf/2104.07229.pdf

9 Sept – 00:29: **M4.5/1N LDE вспышка in AR 12158 (N15E28)**; event began at 23:30 UT. a partial halo CME was first visible in LASCO C2 at 00:16 UTC. **Микроволны слабые, протонов нет.**

An application of the weighted horizontal magnetic gradient to solar compact and eruptive events
M. B. **Korsos**, Michael S. Ruderman, R. Erdelyi
2017
https://arxiv.org/pdf/1801.00281.pdf

9-12 Sept
Distributed Electric Currents in Solar Active Regions
Yuriy A. Fursyak, Alexander S. Kutsenko, Valentina I. Abramenko
Solar Phys. **2019**
https://arxiv.org/pdf/1912.07032.pdf

10 Sept – 17:45: **X1.6/2B LDE вспышка in AR 12158 (N14E02) с мощными микроволнами,** S5~2700, A **wave** travelled quickly across a large part of the visible solar disk. **Протоны с медленным нарастанием**, , the explosion hurled a large and fast **halo CME** directly toward Earth. **Gamma**

Toroidal modified Miller-Turner CME model in EUHFORIA: II. Validation and comparison with flux rope and spheromak
Anwesha **Maharana**, Luis Linan, Stefaan Poedts, Jasmina Magdalenic
A&A **2024**
https://arxiv.org/pdf/2408.03882

Decay Timescales of Chromospheric Condensations in Solar Flare Footpoints
Elizabeth C. **Butler**1 and Adam F. Kowalski2,3
2024 ApJ 970 33
https://iopscience.iop.org/article/10.3847/1538-4357/ad3dfb/pdf

Inferring Fundamental Properties of the Flare Current Sheet Using Flare Ribbons: Oscillations in the Reconnection Flux Rates
Marcel F. Corchado **Albelo**, Maria D. Kazachenko, Benjamin J. Lynch
ApJ **2024**
https://arxiv.org/pdf/2402.03567.pdf

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

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

Magnetic Field Extrapolation in Active Region Well Comparable to Observations in Multiple Layers
Fu **Yu**1,2,3, Jie Zhao1,3, Yang Su1,2, Xiaoshuai Zhu3, Yang Guo4, Jinhua Shen5, and Hui Li1,2
2023 ApJ 951 54
https://iopscience.iop.org/article/10.3847/1538-4357/acd112/pdf

Rotation and interaction of the September 8 and 10, 2014 CMEs tested with EUHFORIA
Anwesha **Maharana**, Camilla Scolini, Brigitte Schmieder, Stefaan Poedts
A&A **2023**
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Complete replacement of magnetic flux in a flux rope during a coronal mass ejection
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Interrogating Solar Flare Loop Models with IRIS Observations 1: Overview of the Models, and Mass flows **Review**
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Is Flare Ribbon Fine Structure Related to Tearing in the Flare Current Sheet?
P. F. **Wyper**1 and D. I. Pontin2,3
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Vanessa **Polito**1, Paola Testa1, and Bart De Pontieu2,3
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C. **Kay**1, N. Gopalswamy1, A. Reinard2, and M. Opher3
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OBSERVATIONS OF MAGNETIC FLUX-ROPE OSCILLATION DURING THE PRECURSOR PHASE OF A SOLAR ERUPTION
G. P. **Zhou**1,2,4, J. Zhang3, and J. X. Wang
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Predicting the magnetic vectors within coronal mass ejections arriving at Earth 1. Initial architecture
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Imaging and Spectroscopic Diagnostics on the Formation of Two Magnetic Flux Ropes Revealed by SDO/AIA and IRIS
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Toroidal modified Miller-Turner CME model in EUHFORIA: II. Validation and comparison with flux rope and spheromak
Anwesha **Maharana**, Luis Linan, Stefaan Poedts, Jasmina Magdalenic
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High-energy (>40 MeV) Proton Intensity Enhancements Associated with the Passage of Interplanetary Shocks at 1 au
D. **Lario**1, I. G. Richardson1,2, A. Aran3, and N. Wijsen1,2
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Rotation and interaction of the September 8 and 10, 2014 CMEs tested with EUHFORIA
Anwesha **Maharana**, Camilla Scolini, Brigitte Schmieder, Stefaan Poedts
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Complete replacement of magnetic flux in a flux rope during a coronal mass ejection
Tingyu **Gou**, Rui Liu, Astrid M. Veronig, Bin Zhuang, Ting Li, Wensi Wang, Mengjiao Xu, Yuming Wang
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Interplanetary Magnetic Flux Ropes as Agents Connecting Solar Eruptions and Geomagnetic Activities
K. **Marubashi**, K.-S. Cho, H. Ishibashi
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Understanding Problem Forecasts of ISEST Campaign Flare-CME Events
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От 9-ого.
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Rotation and interaction of the September 8 and 10, 2014 CMEs tested with EUHFORIA
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A nonlinear solar magnetic field calibration method for the filter-based magnetograph by the residual network
Jingjing **Guo**, Xianyong Bai, Yuanyong Deng, Hui Liu, Jiaben Lin, Jiangtao Su, Xiao Yang, Kaifan Ji
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Characterizing Solar Energetic Particle Event Profiles with Two-Parameter Fits
Stephen W. **Kahler**, Alan G. Ling

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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
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Hard X-Ray Emission from Partially Occulted Solar Flares: RHESSI Observations in Two Solar Cycles
Frederic **Effenberger**, Fatima Rubio da Costa, Mitsuo Oka, Pascal Saint Hilaire, Wei Liu, Vahé Petrosian, Lindsay Glesener, Säm Krucker
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11-14 Sept
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
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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.
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12 Sept - The geomagnetic field was quiet to major storm on September 12 (Dst~-91, Kp=7). Solar wind speed at SOHO ranged between 373 and 728 km/s. A strong solar wind shock with solar wind speed increasing abruptly from 404 to 655 km/sec was observed at SOHO at 15:26 UTC, the arrival of the September 10 CME. The interplanetary magnetic field was at times strongly southwards after the CME arrival, after 23h UTC the IMF has been strongly northwards. Значительный форбуш.
12 Sept - A **filament eruption** started near the central meridian at 17:58 UTC. A near simultaneous event occurred on the solar backside and was the most likely source of a CME that was visible from 18:36 UTC in LASCO imagery over the north pole and the northern limbs.
~18 UT: STEREO-B, значительная эрупция северо-центрального потустороннего волокна

Complete replacement of magnetic flux in a flux rope during a coronal mass ejection
Tingyu **Gou**, Rui Liu, Astrid M. Veronig, Bin Zhuang, Ting Li, Wensi Wang, Mengjiao Xu, Yuming Wang
2023
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Small-scale flux ropes in ICME sheaths
J. **Ruohotie**, E. K. J. Kilpua, S. W. Good, M. Ala-Lahti
Frontiers in Astronomy and Space Sciences **2022**
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Особенности спорадических вариаций плотности и анизотропии галактических космических лучей в 24-м цикле солнечной активности.
Григорьев В. Г., Герасимова С. К., Гололобов П. Ю., Стародубцев С. А., Зверев А. С.

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Estimating the Magnetic Structure of an Erupting CME Flux Rope From AR12158 Using Data-Driven Modeling
Emilia K. J. **Kilpua***, Jens Pomoell, Daniel Price, Ranadeep Sarkar and Eleanna Asvestari
Front. Astron. Space Sci., March **2021** |
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Statistical Analysis of Magnetic Field Fluctuations in Coronal Mass Ejection-Driven Sheath Regions
E. K. J. **Kilpua**1*, S. W. Good1, M. Ala-Lahti1, A. Osmane1, D. Fontaine2, L. Hadid2, M. Janvier3 and E. Yordanova4
Front. Astron. Space Sci., 04 February **2021** |
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The Efficiency of Coronal Mass Ejection With Different IMF Preconditions on the Production of Megaelectronvolt Electron Content in the Outer Radiation Belt
C.-J. **Yuan** Q.-G. Zong
JGR Volume124, Issue5 May **2019** Pages 3222-3235
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Rigidity dependence of Forbush decreases in the energy region exceeding the sensitivity of neutron monitors
M.**Savić** N.Veselinović A.Dragić D.Maletić D.Joković R.Banjanac V.Udovičić
Advances in Space Research Volume 63, Issue 4, 15 February **2019**, Pages 1483-1489

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
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A "Space Weather Buoy" Operated by Citizen Scientists
Phillips, T., et al.
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12-14 Sep

Turbulence, intermittency and cross-scale energy transfer in an interplanetary coronal mass ejection
Roque Márquez **Rodríguez**, Luca Sorriso-Valvo, Emiliya Yordanova
Solar Phys. **2022**
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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
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Investigation of Umbral Dots with the New Vacuum Solar Telescope
Kaifan **Ji**, Xia Jiang, Song Feng, Yunfei Yang, Hui Deng, Feng Wang
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http://arxiv.org/pdf/1509.00312v3.pdf

Investigation of Umbral Dots with the New Vacuum Solar Telescope
Ji **Kaifan**, Jiang Xia, Feng Song, Yang Yunfei, Deng Hui, Wang Feng
Solar Phys. **2015**
http://arxiv.org/pdf/1509.00312v1.pdf

14 Sept – 02:16: M1.5 вспышка, S13W49

Further Evidence for Looplike Fine Structure inside "Unipolar" Active Region Plages
Y.-M. **Wang**, I. Ugarte-Urra, and J. W. Reep
2019 ApJ 885 34
sci-hub.se/10.3847/1538-4357/ab45f6

Solar Event Simulations using the HAWC Scaler System
O. **Enriquez-Rivera**, A. Lara, R. Caballero-Lopez, for the HAWC Collaboration
the 34th International Cosmic Ray Conference (ICRC**2015**), The Hague, The Netherlands.
http://arxiv.org/pdf/1508.07285v1.pdf

14-15 Sep

Estimating the Magnetic Structure of an Erupting CME Flux Rope From AR12158 Using Data-Driven Modeling
Emilia K. J. **Kilpua***, Jens Pomoell, Daniel Price, Ranadeep Sarkar and Eleanna Asvestari
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https://www.frontiersin.org/articles/10.3389/fspas.2021.631582/full
https://doi.org/10.3389/fspas.2021.631582

17 Sept

Statistics of Solar White-Light Flares I: Optimization of Identification Methods and Application
Yingjie **Cai**, Yijun Hou, Ting Li, Jifeng Liu
ApJ **2024**
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From Chromospheric Evaporation to Coronal Rain: An Investigation of the Mass and Energy Cycle of a Flare
Seray **Sahin**, Patrick Antolin
ApJ **2024**
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Properties and Energetics of Magnetic Reconnection: I. Evolution of Flare Ribbons
Jiong **Qiu**, Jianxia Cheng
Solar Phys. **2022**
https://arxiv.org/pdf/2205.03004.pdf

The Low-Frequency Solar Corona in Circular Polarization
Patrick I. **McCauley**, Iver H. Cairns, Stephen M. White, Surajit Mondal, Emil Lenc, John Morgan, Divya Oberoi
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17-18 Sept

IRIS observations short-term variability in moss associated with transient hot coronal loops

Paola **Testa** , Vanessa Polito , Bart De Pontieu

ApJ **2019**

https://arxiv.org/pdf/1910.08201.pdf

18 Sep

Properties and Energetics of Magnetic Reconnection: I. Evolution of Flare Ribbons

Jiong **Qiu**, Jianxia Cheng

Solar Phys. **2022**

https://arxiv.org/pdf/2205.03004.pdf

19 Sept - No geomagnetic storm was in the forecast for Sept. 19th, but a storm occurred anyway. Dst~ -37 nT. The disturbance that began during the evening of September 18 was likely associated with a co-rotating interaction region caused by a large southern hemisphere coronal hole. An extension of that coronal hole rotated across the central meridian on September 15 and was the most likely source of the disturbance

Transverse oscillations in a coronal loop triggered by a jet

S. **Sarkar**, V. Pant, A. K. Srivastava, D. Banerjee

Solar Phys. **2016**

https://arxiv.org/pdf/1611.04063v1.pdf

21 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

22 Sept – Небольшое протонное возрастание. Видимо, от эрупции в ~06:30 на невидимой стороне.

CME. См. STEREO-B.

The "SEP Clock": A Discussion of First Proton Arrival Times in Wide-Spread Solar Energetic Particle Events.

Posner, A., Richardson, I.G. & Strauss, R.DT.

Sol Phys 299, 126 (**2024**).

https://doi.org/10.1007/s11207-024-02350-7

https://link.springer.com/content/pdf/10.1007/s11207-024-02350-7.pdf

22-30 Sept

Properties of quasi-periodic pulsations in solar flares from a single active region

C. E. **Pugh**, V. M. Nakariakov, A.-M. Broomhall, A. V. Bogomolov, I. N. Myagkova

A&A **2017**

https://arxiv.org/pdf/1709.09472.pdf

23 Sept - Big east (S11E32) sunspot AR2172 erupted on Sept. 23rd at 2316 UT, producing an impulsive M2-class solar flare. S5~590, II, IV, CME

24 Sept - A large backsided northern hemisphere CME was observed late (~20 UT) on September 24, this CME was associated with a minor enhancement in proton levels.

~20:30: STEREO-B, NE эрупция с мощной корональной волной

Precise timing of solar flare footpoint sources from mid-infrared observations
Paulo J. A. **Simões**, Lyndsay Fletcher, Hugh S. Hudson, Graham S. Kerr, Matt Penn, Karla F. Lopez
MNRAS **2024**
https://arxiv.org/pdf/2406.11361
RHESSI Science Nuggets #457 **2023**
https://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Precise_timing_of_flare_footpoint_sources_from_mid-infrared_observations

Spicules in IRIS Mg II Observations: Automated Identification
Vicki L. **Herde**, Phillip C. Chamberlin, Don Schmit, Souvik Bose, Adrian Daw, Ryan O. Milligan, Vanessa Polito
AAS Journal **2022**
https://arxiv.org/pdf/2212.04990.pdf

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

Automatic Near-Real-Time Detection of CMEs in Mauna Loa K-Cor Coronagraph Images
W. T. **Thompson**, O. C. St. Cyr, J. T. Burkepile, A. Posner
Space Weather Volume 15, Issue 10 October **2017** Pages 1288–1299
http://sci-hub.cc/10.1002/2017SW001694

Formation of the thermal infrared continuum in solar flares
Paulo J. A. **Simões**1, Graham S. Kerr1⋆, Lyndsay Fletcher1, Hugh S. Hudson1,2, C. Guillermo Giménez de Castro3 and Matt Penn
A&A 605, A125 (**2017**)
https://www.aanda.org/articles/aa/pdf/2017/09/aa30856-17.pdf

Spectral and Imaging Observations of a White-light Flare in the Mid-Infrared
M **Penn**, S Krucker, H Hudson, M Jhabvala, D Jennings, A Lunsford, P Kaufmann
2015
http://arxiv.org/pdf/1512.04449v1.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

Forecasting Space Weather Events for a Neighboring World
Yihua **Zheng***, Tom Mason and Erin L. Wood
Space Weather Volume 13, Issue 1, pages 2–4, January **2015**
http://www.readcube.com/articles/10.1002%2F2014SW001140

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

26 September 05:44 хороший **LDE C8.6 N16W13**

27 Sept

Oscillatory Response of the Solar Chromosphere to a Strong Downflow above a Sunspot
Hannah **Kwak**, Jongchul Chae, Donguk Song, Yeon-Han Kim, Eun-Kyung Lim, Maria S. Madjarska
ApJ Letters **2016**
http://arxiv.org/pdf/1604.02252v1.pdf

28 Sept – 02:58 UT, the magnetic canopy of sunspot AR2173 erupted, producing an **M5.1/2B flare**.

Space Weather Research using Spectropolarimetric Radio Imaging Combined With Aditya-L1 and PUNCH Missions
Devojyoti **Kansabanik**, Surajit Mondal, Divya Oberoi, Puja Majee
Conference proceedings, The 21st Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, Edited by A. S. Brun, J. Bouvier, P. Petit **2023**
https://arxiv.org/pdf/2301.13673.pdf

Imaging-spectroscopy of a band-split type II solar radio burst with the Murchison Widefield Array
Shilpi **Bhunia**, Eoin P. Carley, Divya Oberoi, Peter T. Gallagher
A&A **2022**
https://arxiv.org/pdf/2212.07698.pdf

A novel algorithm for high fidelity spectro-polarimetric snapshot imaging of the low-frequency radio Sun using SKA-low precursor
Devojyoti **Kansabanik**, Divya Oberoi, Surajit Mondal
2022 3rd URSI Atlantic and Asia Pacific Radio Science Meeting (AT-AP-RASC)
https://arxiv.org/pdf/2207.11924.pdf

Tackling the Unique Challenges of Low-Frequency Solar-Polarimetry with SKA-Low Precursor : The Algorithm
Devojyoti **Kansabanik**, Divya Oberoi, Surajit Mondal
ApJ 2022
https://arxiv.org/pdf/2204.04578.pdf

The Neupert Effect of Flare UltraViolet and Soft X-ray Emissions
Jiong **Qiu**
ApJ **2021**
https://arxiv.org/pdf/2101.11069.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

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

29 Sept

Density distribution of photospheric vertical electric currents in flare active regions of the Sun
I.V. **Zimovets** (1), A.B. Nechaeva (1 and 2), I.N. Sharykin (1), W.Q. Gan (3)
2019

https://arxiv.org/pdf/1908.09016.pdf

30 September

Bridging the Gap: Capturing the Lyα Counterpart of a Type-II Spicule and its Heating Evolution with VAULT2.0 and IRIS Observations
Georgios **Chintzoglou**, Bart De Pontieu, Juan Martínez-Sykora, Tiago M.D. Pereira, Angelos Vourlidas, Samuel Tun Beltran
ApJ **2018**
https://arxiv.org/pdf/1803.03405.pdf

Magnetic Flux Rope Shredding by a Hyperbolic Flux Tube: The Detrimental Effects of Magnetic Topology on Solar Eruptions
Georgios **Chintzoglou**, Angelos Vourlidas, Antonia Savcheva, Svetlin Tassev, Samuel Tun Beltran, Guillermo Stenborg
ApJ **2017**
https://arxiv.org/pdf/1706.00057.pdf

Oct 2014

Large Sunspot Groups and Great Magnetic Storms: Magnetic Suppression of CMEs
Edward W. **Cliver**1, Werner Pötzi2, and Astrid M. Veronig2,3
2022 ApJ 938 136
https://iopscience.iop.org/article/10.3847/1538-4357/ac847d/pdf

Oct-Nov

Remeasurement of Solar Observing Optical Network sunspot areas
P J **Meadows**
Monthly Notices of the Royal Astronomical Society, Volume 497, Issue 1, September **2020**, Pages 1110–1114,
https://doi.org/10.1093/mnras/staa2007

1 Oct

The unipolar solar flares as a manifestation of the 'topological' magnetic reconnection
Yurii V. **Dumin**, Boris V. Somov
MNRAS **2023**
https://arxiv.org/pdf/2309.16417.pdf

Observation of "Topological" Microflares in the Solar Atmosphere
Yurii V. **Dumin**, Boris V. Somov
Research Notes of the American Astronomical Society **2017**
https://arxiv.org/pdf/1711.03140.pdf

2 Oct – 19:01:5 M1.5 + M7.3 LDE вспышка, S17W82 , **без микроволн и протонов**, II/IV, крупный CME

Ground-based Solar Observations for Space Weather Forecasting
A.G. **Tlatov**, A.A. Pevtsov
2023
https://arxiv.org/ftp/arxiv/papers/2303/2303.01708.pdf

White-light QFP wave train and the associated failed breakout eruption⋆
Yuandeng **Shen**1,2,3,5, Surui Yao1, Zehao Tang1,3, Xinping Zhou1,3, Zhining Qu4, Yadan Duan1,3, Chengrui Zhou1,3 and Song Tan1,3
A&A 665, A51 (**2022**)
https://arxiv.org/pdf/2207.08110.pdf

https://www.aanda.org/articles/aa/pdf/2022/09/aa43924-22.pdf

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

3 Oct

Preliminary Discussion on the Current Sheet
Tao **Ding**1, Jun Zhang1, Yuan Fang1, and Zhiying Ma1
2024 ApJ 964 58
https://iopscience.iop.org/article/10.3847/1538-4357/ad2683/pdf

Observing the release of twist by magnetic reconnection in a solar filament eruption
Zhike **Xue**, Xiaoli Yan, Xin Cheng, Liheng Yang, Yingna Su, Bernhard Kliem, Jun Zhang, Zhong Liu, Yi Bi, Yongyuan Xiang, Kai Yang & Li Zhao
Nature Communications **2016 File**
http://www.nature.com/ncomms/2016/160616/ncomms11837/pdf/ncomms11837.pdf

Investigation of Umbral Dots with the New Vacuum Solar Telescope
Kaifan **Ji**, Xia Jiang, Song Feng, Yunfei Yang, Hui Deng, Feng Wang
Solar Phys. **2015**
http://arxiv.org/pdf/1509.00312v3.pdf

4 Oct
C-1.4 Class Flare and An Associated Peculiar Coronal Jet
Ritika **Solanki**, A.K. Srivastava, B.N. Dwivedi
Proceedings IAU Symposium No. 340 **2018**
https://arxiv.org/pdf/1805.05948.pdf

9 Oct
Multi-thermal jet formation triggered by flux emergence
Xiaohong **Li**, Rony Keppens, Yuhao Zhou
ApJL **2023**
https://arxiv.org/pdf/2304.01043.pdf

10 Oct - 16:47, C3.0 LDE, SW quadrant, filament eruption, CME

11-15 Oct
Investigation of the Middle Corona with SWAP and a Data-Driven Non-Potential Coronal Magnetic Field Model
Karen A. **Meyer**, Duncan H. Mackay, Dana-Camelia Talpeanu, Lisa A. Upton & Matthew J. West
Solar Physics volume 295, Article number: 101 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01668-2.pdf

14 Oct - 18:37 M1.1 **импульс и сразу за ним медленное LDE** M2.2 с пиком в 21:21 и крупный CME (сильное отклонение корональных лучей) из SE лимба
See http://www2.hao.ucar.edu/sites/default/files/images/mlso/gallery/20141014_aia-kcor-lasco_cme_1024x1024_ani.gif

The Structure of Coronal Mass Ejections Recorded by the K-Coronagraph at Mauna Loa Solar Observatory
Hongqiang **Song**, Leping Li, Zhenjun Zhou, Lidong Xia, Xin Cheng, Yao Chen
ApJL **2023**

https://arxiv.org/pdf/2307.01398.pdf

Tackling the Unique Challenges of Low-Frequency Solar-Polarimetry with SKA-Low Precursor : The Algorithm
Devojyoti **Kansabanik**, Divya Oberoi, Surajit Mondal
ApJ 2022
https://arxiv.org/pdf/2204.04578.pdf

Densities Probed by Coronal Type III Radio Burst Imaging
Patrick I. **McCauley**, Iver H. Cairns, John Morgan
Solar Phys. **2018**
https://arxiv.org/pdf/1808.04989.pdf

Automatic Near-Real-Time Detection of CMEs in Mauna Loa K-Cor Coronagraph Images
W. T. **Thompson**, O. C. St. Cyr, J. T. Burkepile, A. Posner
Space Weather Volume 15, Issue 10 October **2017** Pages 1288–1299
http://sci-hub.cc/10.1002/2017SW001694

Interplanetary coronal mass ejection observed at STEREO-A, Mars, comet 67P/Churyumov-Gerasimenko, Saturn, and New Horizons en-route to Pluto. Comparison of its Forbush decreases at 1.4, 3.1 and 9.9 AU
O. **Witasse**, B. Sánchez-Cano, M. L. Mays, P. Kajdič ….
JGR **2017**
http://onlinelibrary.wiley.com/doi/10.1002/2017JA023884/pdf

SWAP Observations of Post-flare Giant Arches in the Long-Duration 14 October 2014 Solar Eruption
Matthew J. **West** and Daniel B. Seaton
ApJL **2015**
http://arxiv.org/pdf/1502.00801v1.pdf

14-15 Oct - ~19 UT: **геомагнитная буря** (Dst~-50) в связи с секторной границей

Начало необычной активности очень крупной области AR 2192
Remarkably, not one of the explosions so far has hurled a significant CME toward Earth.
См. **14 Oct**

GOES вспышки за весь период
http://www.spaceweather.com/images2014/01nov14/Sunspot2192_Summary.pdf?PHPSESSID=7fufll2gk2tudh5i4sdt437501

Probing Subsurface Flows in Active Region NOAA 12192 - Comparison with NOAA 10486
Kiran **Jain**, S.C. Tripathy, F. Hill
ApJ **2017**
https://arxiv.org/pdf/1710.02137.pdf

The Great Solar Active Region NOAA 12192: Helicity Transport, Filament Formation, and Impact on the Polar Field
Tyler C. **McMaken**1,2 and Gordon J. D. Petrie
2017 ApJ 840 100
http://sci-hub.cc/10.3847/1538-4357/aa6d0b

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

A Series of Homologous Jets that Drove CMEs from The Giant Solar Acive Region of 2014 October
Navdeep K. **Panesar**, Alphonse C. Sterling, Ronald L. Moore
ApJL **2016**
http://arxiv.org/pdf/1604.05770v1.pdf

Confined Flares in Solar Active Region 12192 from 2014 October 18 to 29
Huadong **Chen**, Jun Zhang, Suli Ma, Shuhong Yang, Leping Li, Xin Huang, Junmin Xiao
ApJL **2015**
http://arxiv.org/pdf/1507.00651v1.pdf

Why Is the Great Solar Active Region 12192 CME-Poor?
Xudong **Sun**, Monica G. Bobra, J. Todd Hoeksema, Yang Liu, Yan Li, Chenglong Shen, Sebastien Couvidat, Aimee A. Norton, George H. Fisher
ApJL 804, L28 **2015**
http://arxiv.org/pdf/1502.06950v1.pdf

The Confined X-class Flares of Solar Active Region 2192
J.K. **Thalmann**, Y. Su, M. Temmer, A. M. Veronig
ApJL **2015**
http://arxiv.org/pdf/1502.05157v1.pdf

A Record-Setting CMEless Flare
Sam **Freeland** and Greg Slater.
RHESSI_Science_Nuggets, No. 239, Oct **2014**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/RHESSI_Science_Nuggets

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15 Oct

Small-scale Bright Blobs Ejected from a Sunspot Light Bridge
Fuyu **Li**1, Yajie Chen1,2, Yijun Hou3, Hui Tian1,3, Xianyong Bai
2021 ApJ 908 201
https://doi.org/10.3847/1538-4357/abd322
https://arxiv.org/pdf/2102.13545

18 Oct

Energy and spectral analysis of confined solar flares from radio and X-ray observations
Chengming **Tan**, Karl-Ludwig Klein, Yihua Yan, Satoshi Masuda, Baolin Tan, Jing Huang, Guowu Yuan
Research in Astronomy and Astrophysics **2021**
https://arxiv.org/pdf/2108.02601.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

18-26 Oct

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

Probing Subsurface Flows in Active Region NOAA 12192 - Comparison with NOAA 10486
Kiran **Jain**, S.C. Tripathy, F. Hill
ApJ **2017**
https://arxiv.org/pdf/1710.02137.pdf

19 Oct – **05:03: X1.1/SN LDE** вспышка, S13E57, S5~310, без метров, No significant CME, практически без диммингов

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

Are complex magnetic field structures responsible for the confined X-class flares in super active region 12192?
Jun **Zhang**, Ting Li, Huadong Chen
ApJ **2017**
https://arxiv.org/pdf/1707.03171.pdf

Very Long-period Pulsations before the Onset of Solar Flares
Baolin **Tan**, Zhiqiang Yu, Jing Huang, Chengming Tan, Yin Zhang
ApJ **2016**
https://arxiv.org/pdf/1610.09291v1.pdf

Solar X-ray Emission Measured by the VernovMission During September – October of 2014
N. **Myagkova**, A. V. Bogomolov, L. K. Kashapova, V. V. Bogomolov, S. I. Svertilov, M. I. Panasyuk, E. A. Kuznetsova, G. V. Rozhkov
Solar Phys. **2016**

The Confined X-class Flares of Solar Active Region 2192
J.K. **Thalmann**, Y. Su, M. Temmer, A. M. Veronig
ApJl **2015**
http://arxiv.org/pdf/1502.05157v1.pdf

19-27 Oct 6 X-class flares

Properties of quasi-periodic pulsations in solar flares from a single active region
C. E. **Pugh**, V. M. Nakariakov, A.-M. Broomhall, A. V. Bogomolov, I. N. Myagkova
A&A **2017**
https://arxiv.org/pdf/1709.09472.pdf

20 Oct – 09:11, M3.9, S14E42; S9~2000

Searching for rapid pulsations in solar flare X-ray data
Andrew R. **Inglis**, Laura A. Hayes
ApJ **2024**
https://arxiv.org/pdf/2406.07372

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 Series of Homologous Jets that Drove CMEs from The Giant Solar Acive Region of 2014 October
Navdeep K. **Panesar**, Alphonse C. Sterling, Ronald L. Moore
ApJL **2016**
http://arxiv.org/pdf/1604.05770v1.pdf

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

21-27 Oct

On the use of relative field line helicity as an indicator for solar eruptivity
K. **Moraitis**, S. Patsourakos, A. Nindos, J.K. Thalmann, É. Pariat
A&A **2023**
https://arxiv.org/pdf/2312.13950.pdf

The Low-Frequency Solar Corona in Circular Polarization
Patrick I. **McCauley**, Iver H. Cairns, Stephen M. White, Surajit Mondal, Emil Lenc, John Morgan, Divya Oberoi
Solar Phys. **2019**
https://arxiv.org/pdf/1907.10878.pdf

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

A Comparative Study of the Eruptive and Non-Eruptive Flares Produced by the Largest Active Region of Solar Cycle 24
Ranadeep **Sarkar**, Nandita Srivastava
Solar Phys. Volume 293, Issue 2, article id. 16, **2018**
https://arxiv.org/pdf/1801.00473.pdf
https://sci-hub.ru/10.1007/s11207-017-1235-8

Extreme Solar Eruptions and their Space Weather Consequences **Review**
Nat **Gopalswamy**
2017, be published by Elsevier as a chapter in the book, "Extreme Events in the Geospace: Origins, Predictability and Consequences", Ed. Natalia Buzulukova
https://arxiv.org/ftp/arxiv/papers/1709/1709.03165.pdf **File**

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

Successive Homologous Coronal Mass Ejections Driven by Shearing and Converging Motions in Solar Active Region NOAA 12371
P. **Vemareddy**
2017 ApJ 845 59
http://sci-hub.cc/10.3847/1538-4357/aa7ff4

Extreme solar storms based on solar magnetic field
Brigitte **Schmieder**
Varsiti Conference in Varna June 2016 **2017**
https://arxiv.org/pdf/1708.01790.pdf **File**

The Great Solar Active Region NOAA 12192: Helicity Transport, Filament Formation, and Impact on the Polar Field
Tyler C. **McMaken**1,2 and Gordon J. D. Petrie
2017 ApJ 840 100
http://sci-hub.cc/10.3847/1538-4357/aa6d0b

Anomalous Surge of the White-Light Corona at the Onset of the Declining Phase of Solar Cycle 24
P. **Lamy**, B. Boclet, J. Wojak, D. Vibert
Solar Physics April **2017**, 292:60
http://link.springer.com/content/pdf/10.1007%2Fs11207-017-1085-4.pdf

Solar X-ray Emission Measured by the VernovMission During September – October of 2014
N. **Myagkova**, A. V. Bogomolov, L. K. Kashapova, V. V. Bogomolov, S. I. Svertilov, M. I. Panasyuk, E. A. Kuznetsova, G. V. Rozhkov
Solar Phys. **2016**

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

The Exceptional Aspects of the Confined X-class Flares of Solar Active Region 2192
Julia K. **Thalmann**, Yang Su, Manuela Temmer, Astrid M. Veronig
Proceedings IAU Symposium No. S320, "Solar and Stellar Flares and Their Effects on Planets" **2016**
http://arxiv.org/pdf/1605.03712v1.pdf

A Series of Homologous Jets that Drove CMEs from The Giant Solar Acive Region of 2014 October
Navdeep K. **Panesar**, Alphonse C. Sterling, Ronald L. Moore
ApJL **2016**
http://arxiv.org/pdf/1604.05770v1.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

22 Oct – 01:59: M8.7 LDE вспышка, ~S16E17, **S9~4500**, **опять почти без метров, только слабый, медленно дрейфующий континуум; No significant CME, практически без диммингов; протонов нет**
-- 05:17 – M2.7 импульс
-- 14:28 –X1.6 LDE вспышка, S14E13, S15~3700, опять почти без метров и CME; протонов нет
-- 15:57 - M1.4; 042-180 II/1

Properties of magnetic null points associated with X-class flares during solar cycle 24
R. L. **Edgar**, S. Regnier
MNRAS **2024**
https://arxiv.org/pdf/2410.16778

Properties of magnetic null points associated with X-class flares during solar cycle 24
R L **Edgar**, S Régnier
MNRAS, Volume 532, Issue 1, July **2024**, Pages 755–762,
https://doi.org/10.1093/mnras/stae1470
https://watermark.silverchair.com/stae1470.pdf

Understanding the thermal and magnetic properties of a X-class flare in the low solar atmosphere
F. **Ferrente**, C. Quintero Noda, F. Zuccarello, S. L. Guglielmino
A&A **2024**
https://arxiv.org/pdf/2404.06231.pdf

Evolution of the Ratio of Mg II Intensities During Solar Flares
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24 Oct – 07:48: M4.0 импульс**,** тоже из AR 2192 (S22W05), S9~1300, слабый II/IV тип, виден на нашем спектре; небольшой CME
21:41: **X3.1/3B LDE,** тоже из AR 2192 (S16W21), S9-15~1600, **опять без CME, Без диммингов и протонов**

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Ting **Li**1,2, Xudong Sun3, Yijun Hou1,2, Anqin Chen4, Shuhong Yang1,2, and Jun Zhang5
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ПРЕДВСПЫШЕЧНАЯ ДИНАМИКА МИКРОВОЛНОВОГО ИЗЛУЧЕНИЯ И МАГНИТНОГО ПОЛЯ АКТИВНЫХ ОБЛАСТЕЙ СОЛНЦА
Абрамов-Максимов В.Е.1, Боровик В.Н.1, Опейкина Л.В.2, Златов А.Г.
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Kazumasa **Iwai**, Hideki Koshiishi, Kiyoto Shibasaki, Satoshi Nozawa, Shun Miyawaki, Takuro Yoneya
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Interrogating Solar Flare Loop Models with IRIS Observations 2: Plasma Properties, Energy Transport, and Future Directions **Review**

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Various Activities above Sunspot Light Bridges in IRIS Observations: Classification and Comparison
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Multiwavelength Imaging and Spectral Analysis of Jet-like Phenomena in a Solar Active Region Using IRIS and AIA
Ll[illegible]r Dafydd **Humphries**1, Erwin Verwichte2, David Kuridzé1, and Huw Morgan1
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Spectral Evidence for Heating at Large Column Mass in Umbral Solar Flare Kernels I: IRIS NUV Spectra of the X1 Solar Flare of 2014 Oct 25
Adam F. **Kowalski** (1, 2, 3), Elizabeth Butler (1), Adrian N. Daw (4), Lyndsay Fletcher (5, 6), Joel C. Allred (4, 6), Bart De Pontieu (6, 7, 8), Graham S. Kerr (4), Gianna Cauzzi
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Scaling laws of quasi-periodic pulsations in solar flares
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Christian **Baumgartner**, Julia K. Thalmann, Astrid M. Veronig
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Are complex magnetic field structures responsible for the confined X-class flares in super active region 12192?
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Very Long-period Pulsations before the Onset of Solar Flares
Baolin **Tan**, Zhiqiang Yu, Jing Huang, Chengming Tan, Yin Zhang
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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
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The Energetics of White-light Flares Observed by SDO/HMI and RHESSI
Nengyi **Huang**, Yan Xu, Haimin Wang
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НАБЛЮДЕНИЯ ДИНАМИЧЕСКИХ СОБЫТИЙ НА СОЛНЦЕ В ЦЕНТРЕ И КРЫЛЬЯХ СПЕКТРАЛЬНЫХ ЛИНИЙ ВИДИМОГО, УФ И РЕНТГЕНОВСКОГО ДИАПАЗОНОВ
Дормидонтов Д.В., Пащенко М.П., Тлатов А.Г., Чернов Я.О.
Пулково *«Солнечная и солнечно-земная физика – **2015**», с.125*

ПРЕДВСПЫШЕЧНАЯ ДИНАМИКА МИКРОВОЛНОВОГО ИЗЛУЧЕНИЯ И МАГНИТНОГО ПОЛЯ АКТИВНЫХ ОБЛАСТЕЙ СОЛНЦА
Абрамов-Максимов В.Е.1, Боровик В.Н.1, Опейкина Л.В.2, Тлатов А.Г.
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Fine structure above a light bridge in the transition region and corona
Lokesh **Bharti**
MNRAS Letters **2015**
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Oscillating light wall above a sunspot light bridge
Shuhong **Yang**, Jun Zhang, Fayu Jiang, Yongyuan Xiang
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The Confined X-class Flares of Solar Active Region 2192
J.K. **Thalmann**, Y. Su, M. Temmer, A. M. Veronig
ApJl **2015**
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25 Oct-8 Nov

Exhaustive study of three-time periods of solar activity due to single active regions: sunspot, flare, CME, and, geo-effective characteristics
Shirsh Lata **Soni**, Manohar Lal Yadav, Radhe Syam Gupta, Pyare lal Verma
Astrophysics and space science journal **2020**
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Image Synthesis for Solar Flare Prediction
Elad **Amar**1 and Ohad Ben-Shahar2
ApJS 271 29 **2024**
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Temperature Analysis of Flaring (AR11283) and non-Flaring (AR12194) Coronal Loops
Narges **Fathalian**, Seyedeh Somayeh Hosseini Rad, Nasibeh Alipour, Hossein Safari
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Quasi-Periodic Pulsations in Solar and Stellar Flares: A Review of Underpinning Physical Mechanisms and Their Predicted Observational Signatures
I. V. **Zimovets**, J. A. McLaughlin, A. K. Srivastava, D. Y. Kolotkov, A. A. Kuznetsov, E. G. Kupriyanova, I.-H. Cho, A. R. Inglis, F. Reale, D. J. Pascoe, H. Tian, D. Yuan, D. Li & Q. M. Zhang
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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
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Are complex magnetic field structures responsible for the confined X-class flares in super active region 12192?
Jun **Zhang**, Ting Li, Huadong Chen
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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

НАБЛЮДЕНИЯ ДИНАМИЧЕСКИХ СОБЫТИЙ НА СОЛНЦЕ В ЦЕНТРЕ И КРЫЛЬЯХ СПЕКТРАЛЬНЫХ ЛИНИЙ ВИДИМОГО, УФ И РЕНТГЕНОВСКОГО ДИАПАЗОНОВ
Дормидонтов Д.В., Пащенко М.П., Златов А.Г., Чернов Я.О.
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The Confined X-class Flares of Solar Active Region 2192
J.K. **Thalmann**, Y. Su, M. Temmer, A. M. Veronig
ApJl 801, L23 **2015**
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27 Oct – 00:28: M7.1, тоже из AR 2192 (S18W45), S9~130, **опять без CME, Без диммингов и протонов**
-- 10:09: M6.7, тоже из AR 2192 (S18W50), S9~190, **опять без CME, Без диммингов и протонов**
-- 14:47: **X2.0/2B LDE**, тоже из AR 2192 (S17W52), S15~760, **опять без CME, Без диммингов и протонов**

Highly Energetic Electrons Accelerated in Strong Solar Flares as a Preferred Driver of Sunquakes
H. **Wu**, Y. Dai, M. D. Ding
ApJL **2023**
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Solar Flare Ribbon Fronts I: Constraining flare energy deposition with IRIS spectroscopy
Vanessa **Polito**, Graham S. Kerr, Yan Xu, Viacheslav M. Sadykov, Juraj Lorincik
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Kink oscillations of coronal loops **Review**
V. M. **Nakariakov** · S. A. Anfinogentov · P. Antolin · R. Jain · D. Y. Kolotkov · E. G. Kupriyanova · D. Li · N. Magyar · G. Nistic`o · D. J. Pascoe · A. K. Srivastava · J. Terradas · S. Vasheghani Farahani · G. Verth · D. Yuan · I. V. Zimovets
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Energy and spectral analysis of confined solar flares from radio and X-ray observations
Chengming **Tan**, Karl-Ludwig Klein, Yihua Yan, Satoshi Masuda, Baolin Tan, Jing Huang, Guowu Yuan
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Flare induced decay-less transverse oscillations in solar coronal loops

Sudip **Mandal**, Hui Tian, Hardi Peter
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Exploring mutual information between IRIS spectral lines. II. Calculating the most probable response in all spectral windows
Brandon **Panos**, Lucia Kleint
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S N A Syed **Zafar**, R Umar, N H Sabri, M H Jusoh, A N Dagang, A Yoshikawa
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Investigation of the Middle Corona with SWAP and a Data-Driven Non-Potential Coronal Magnetic Field Model
Karen A. **Meyer**, Duncan H. Mackay, Dana-Camelia Talpeanu, Lisa A. Upton & Matthew J. West
Solar Physics volume 295, Article number: 101 (**2020**)
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Three-dimensional Magnetic Reconnection Triggering an X-class Confined Flare in Active Region 12192
Ting **Li**, Yijun Hou, Shuhong Yang, Jun Zhang
ApJ **2018**
https://arxiv.org/pdf/1811.03302.pdf
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Frequency rising sub-THz emission from solar flare ribbons
E.P. **Kontar**, G.G. Motorina, N.L.S. Jeffrey, Y.T. Tsap, G.D. Fleishman, A.V. Stepanov
A&A **2018**
https://arxiv.org/pdf/1810.03922.pdf

Non-stationary quasi-periodic pulsations in solar and stellar flares **Review**
Nakariakov, V.M., Kolotkov, D., Kupriyanova, E.G., Mehta, T., Pugh, C.E., Lee, D.-H., Broomhall, A.M.
Plasma Physics and Controlled Fusion **2018**
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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
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Observations of Electron-driven Evaporation during a Flare Precursor
Dong **Li**, Ying Li, Wei Su, Yu Huang, Zongjun Ning
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Doppler shift oscillations from a hot line observed by IRIS
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Are complex magnetic field structures responsible for the confined X-class flares in super active region 12192?
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Dong **Li**, Zongjun Ning, Yu Huang, Qingmin Zhang
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Spectral Trends of Solar Bursts at Sub-THz Frequencies
L. O. T. **Fernandes,** P. Kaufmann, E. Correia, C. G. Giménez de Castro, A. S. Kudaka, A. Marun, P. Pereyra, J.-P. Raulin, A. B. M. Valio
Solar Physics January **2017**, 292:21
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Quasi-periodic pulsations with periods that change depending on whether the pulsations have thermal or nonthermal components
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Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions
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Navdeep K. **Panesar**, Alphonse C. Sterling, Ronald L. Moore
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Simultaneous IRIS and Hinode/EIS observation and modelling of an X-class flare
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http://www.uksolphys.org/uksp-nugget/61-simultaneous-iris-and-hinodeeis-observation-and-modelling-of-an-x-class-flare/

Solar Demon – an approach to detecting flares, dimmings, and EUV waves on SDO/AIA images
Emil **Kraaikamp*** and Cis Verbeeck
J. Space Weather Space Clim., 5, A18 (**2015**) **File**
http://www.swsc-journal.org/articles/swsc/pdf/2015/01/swsc140062.pdf

Bright 30 THz impulsive solar bursts†
P. **Kaufmann**, S.M. White, R. Marcon, A.S. Kudaka, D. P. Cabezas, M.M. Cassiano, C. Francile, L.O.T. Fernandes, R.F. Hidalgo Ramirez, M. Luoni, A. Marun, P. Pereyra and R. V. de Souza
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The Confined X-class Flares of Solar Active Region 2192
J.K. **Thalmann**, Y. Su, M. Temmer, A. M. Veronig

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28 Oct – 02:42: M3.4 и 03:32: M6.6 западные (LDE) вспышки из SUPER-SUNSPOT AR 2192 с теми же особенностями. It was the location of a backsided CME late on October 28.

Various Activities above Sunspot Light Bridges in IRIS Observations: Classification and Comparison
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Energy and spectral analysis of confined solar flares from radio and X-ray observations
Chengming **Tan**, Karl-Ludwig Klein, Yihua Yan, Satoshi Masuda, Baolin Tan, Jing Huang, Guowu Yuan
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Transverse MHD waves as signatures of braiding-induced magnetic reconnection in coronal loops
A. **Ramada**. C. Sukarmadji, Patrick Antolin
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Imaging and Spectroscopic Observations of the Dynamic Processes in Limb Solar Flares
Ke **Yu**, Y. Li, Jie Hong, De-Chao Song, M. D. Ding
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Energy and spectral analysis of confined solar flares from radio and X-ray observations
Chengming **Tan**, Karl-Ludwig Klein, Yihua Yan, Satoshi Masuda, Baolin Tan, Jing Huang, Guowu Yuan
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Frequently Occurring Reconnection Jets from Sunspot Light Bridges
Hui **Tian**, Vasyl Yurchyshyn, Hardi Peter, Sami K. Solanki, Peter R. Young, Lei Ni, Wenda Cao, Kaifan Ji, Yingjie Zhu, Jingwen Zhang, Tanmoy Samanta,Yongliang Song, Jiansen He, Linghua Wang, Yajie Chen
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High-resolution Observations of a White-light Flare with NST
V. **Yurchyshyn**1,2, P. Kumar2, V. Abramenko3,4, Y. Xu5, P. R. Goode1, K.-S. Cho2,6, and E.-K. Lim
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Significance testing for quasi-periodic pulsations in solar and stellar flares
C. E. **Pugh**, A.-M. Broomhall, V. M. Nakariakov
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Oscillating light wall above a sunspot light bridge
Shuhong **Yang**, Jun Zhang, Fayu Jiang, Yongyuan Xiang
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30 Oct

Imaging and Spectroscopic Observations of the Dynamic Processes in Limb Solar Flares
Ke **Yu**, Y. Li, Jie Hong, De-Chao Song, M. D. Ding
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Estimate of Plasma Temperatures Across a CME-Driven Shock from a Comparison Between EUV and Radio Data
Federica **Frassati**, Salvatore Mancuso & Alessandro Bemporad
Solar Physics volume 295, Article number: 124 (**2020**)
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Three-dimensional reconstruction of CME-driven shock-streamer interaction from radio and EUV observations: a different take on the diagnostics of coronal magnetic fields
S. **Mancuso**, F. Frassati, A. Bemporad, D. Barghini
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Comparison of damped oscillations in solar and stellar X-ray flares
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Hard X-Ray Emission from Partially Occulted Solar Flares: RHESSI Observations in Two Solar Cycles
Frederic **Effenberger**, Fatima Rubio da Costa, Mitsuo Oka, Pascal Saint Hilaire, Wei Liu, Vahé Petrosian, Lindsay Glesener, Säm Krucker
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Модуляционное влияние коротирующей магнитной ловушки на 27-дневные вариации космических лучей в ноябре–декабре 2014 г.
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Comprehensive Analysis of the Formation of a Shock Wave Associated with a Coronal Mass Ejection
Federica **Frassati**1,2, Roberto Susino1, Salvatore Mancuso1, and Alessandro Bemporad
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Solar Flare Observations with the Karl G. Jansky Very Large Array
Bin **Chen**
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Possible Detection of Subsecond-Period Propagating Magnetohydrodynamics Waves in Post-Reconnection Magnetic Loops during a Two-Ribbon Solar Flare
Sijie **Yu** (1), Bin Chen
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Comprehensive Analysis of the Formation of a Shock Wave Associated with a Coronal Mass Ejection
Federica **Frassati**1,2, Roberto Susino1, Salvatore Mancuso1, and Alessandro Bemporad
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Magnetic Reconnection Null Points as the Origin of Semi-relativistic Electron Beams in a Solar Jet
Bin **Chen**, Sijie Yu, Marina Battaglia, Samaiyah Farid, Antonia Savcheva, Katharine K. Reeves, Säm Krucker, T. S. Bastian, Fan Guo, Svetlin Tassev
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Hard X-Ray Constraints on Small-Scale Coronal Heating Events
Andrew J. **Marsh**, David M. Smith, Lindsay Glesener, James A. Klimchuk, Stephen J. Bradshaw, Juliana Vievering, Iain G. Hannah, Steven Christe, Shin-nosuke Ishikawa, Sam Krucker
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First NuSTAR Limits on Quiet Sun Hard X-Ray Transient Events
Andrew J. **Marsh**1, David M. Smith1, Lindsay Glesener2 …….
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Study of the early phase of a Coronal Mass Ejection driven shock in EUV images
Federica **Frassati**, Roberto Susino, Salvatore Mancuso & Alessandro Bemporad
Astrophysics and Space Science October **2017**, 362:194
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Tornado-Like Evolution of A Kink-Unstable Solar Prominence
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The First Focused Hard X-ray Images of the Sun with NuSTAR
Brian W. **Grefenstette**, Lindsay Glesener, S□äm Krucker, Hugh Hudson, Iain G. Hannah, David M. Smith, Julia K. Vogel, Stephen M. White, Kristin K. Madsen, Andrew J. Marsh, Amir Caspi, Bin Chen, Albert Shih, Matej Kuhar, Steven E. Boggs, Finn E. Christensen, William W. Craig, Karl Forster, Charles J. Hailey, Fiona A. Harrison, Hiromasa Miyasaka, Daniel Stern, William W. Zhang
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The first X-ray imaging spectroscopy of quiescent solar active regions with NuSTAR
I. G. **Hannah**, B. W. Grefenstette, D. M. Smith, L. Glesener, S. Krucker, H. S. Hudson, K. K. Madsen, A. Marsh, S. M. White, A. Caspi, A. Y. Shih, F. A. Harrison, D. Stern, S. E. Boggs, F. E. Christensen, W. W. Craig, C. J. Hailey, W. W. Zhang
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Signals at ground level of relativistic solar particles associated to the "All Saints" filament eruption on 2014
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Exhaustive study of three-time periods of solar activity due to single active regions: sunspot, flare, CME, and, geo-effective characteristics
Shirsh Lata **Soni**, Manohar Lal Yadav, Radhe Syam Gupta, Pyare lal Verma
Astrophysics and space science journal **2020**
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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

Начинается высокая активность северной области AR 2205
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1 Nov-23 Dec
Photospheric Driving of Non-potential Solar Coronal Magnetic Field Simulations
Marion **Weinzierl**1 and Anthony R. Yeates
HMI Science Nuggets #47 Dec **2015**
http://hmi.stanford.edu/hminuggets/?p=1367

2 Nov – 09:41-09:55 хороший II тип на нашем спектре, из выходящей большой области AR 2205б крупный CME

3 Nov – 11:53: восточная прилимбовая M2.2 вспышка из выходящей AR 2205 со II типом, эрупция волокна
22:40: восточная прилимбовая M6.5 вспышка из выходящей AR 22205 со II типом, S15~2000

A novel algorithm for high fidelity spectro-polarimetric snapshot imaging of the low-frequency radio Sun using SKA-low precursor
Devojyoti **Kansabanik**, Divya Oberoi, Surajit Mondal
2022 3rd URSI Atlantic and Asia Pacific Radio Science Meeting (AT-AP-RASC)
https://arxiv.org/pdf/2207.11924.pdf

Tackling the Unique Challenges of Low-Frequency Solar-Polarimetry with SKA-Low Precursor : The Algorithm
Devojyoti **Kansabanik**, Divya Oberoi, Surajit Mondal
ApJ 2022
https://arxiv.org/pdf/2204.04578.pdf

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**

Discovery of correlated evolution in solar noise storm source parameters: Insights on magnetic field dynamics during a microflare
Atul **Mohan**
ApJ **2021**
https://arxiv.org/pdf/2102.10153.pdf

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

Statistical Study of GOES X-ray Quasi-Periodic Pulsations in Solar Flares
Laura A. **Hayes**, Andrew R. Inglis, Steven Christe, Brian Dennis, Peter T. Gallagher
ApJ **2020**
https://arxiv.org/pdf/2004.11775.pdf

Evidence for Super-Alfvenic oscillations in sources of Solar type III radio bursts
Atul **Mohan**, Surajit Mondal, Divya Oberoi, Colin Lonsdale
2018
https://arxiv.org/pdf/1809.02588.pdf

4D Data Cubes from Radio-Interferometric Spectroscopic Snapshot Imaging
Atul **Mohan**, Divya Oberoi
Solar Phys. **2017**
https://arxiv.org/pdf/1710.10525.pdf

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

Observation of quasi-periodic solar radio bursts associated with propagating fast-mode waves
C. R. **Goddard**, G. Nisticò, V. M. Nakariakov, I. V. Zimovets, S. M. White
A&A **2016**
http://arxiv.org/pdf/1608.04232v1.pdf

Solar Demon – an approach to detecting flares, dimmings, and EUV waves on SDO/AIA images
Emil **Kraaikamp*** and Cis Verbeeck
J. Space Weather Space Clim., 5, A18 (**2015**) **File**
http://www.swsc-journal.org/articles/swsc/pdf/2015/01/swsc140062.pdf

4 Nov – 08:38 M2.6 вспышка из выходящей AR 2205 (N15E82)

Investigation of the Middle Corona with SWAP and a Data-Driven Non-Potential Coronal Magnetic Field Model
Karen A. **Meyer**, Duncan H. Mackay, Dana-Camelia Talpeanu, Lisa A. Upton & Matthew J. West

Solar Physics volume 295, Article number: 101 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01668-2.pdf

Partial eruption of a filament with twisting nonuniform fields
Yi **Bi**, Yunchun Jiang, Jiayan Yang, Yongyuan Xiang, Yunfang Cai, Weiwei Liu
ApJ **2015**
http://arxiv.org/pdf/1504.03090v1.pdf

5 Nov – 07:21-07:40: II/1 Наш хороший спектр. Для иллюстрации.
09:47: M7.9 вспышка из AR 2205 (N20E68), S15~1300, II/2 тип **на нашем спектре**
19:44: M2.9/1N, N17E65, II/1

Probing Velocity Dispersion inside CMEs in Inner Corona: New Insights on CME Initiation
Satabdwa **Majumdar**, Elke D' Huys, Marilena Mierla, Nitin Vashishtha, Dana-Camelia Talpeanu, Dipankar Banerjee, Martin A. Reiss
ApJL **2024**
https://arxiv.org/pdf/2407.02244

Effects of solar flares and coronal mass ejections on Earth's horizontal magnetic field and solar wind parameters during the minimum solar cycle 24
S N A Syed **Zafar**, R Umar, N H Sabri, M H Jusoh, A N Dagang, A Yoshikawa
Monthly Notices of the Royal Astronomical Society, Volume 504, Issue 3, July **2021**, Pages 3812–3822,
https://doi.org/10.1093/mnras/stab1161

Coronal Conditions for the Occurrence of Type II Radio Bursts
Athanasios **Kouloumvakos**1, Alexis Rouillard1, Alexander Warmuth2, Jasmina Magdalenic3,4, Immanuel. C. Jebaraj3,4, Gottfried Mann2, Rami Vainio5, and Christian Monstein6
2021 ApJ 913 99
https://iopscience.iop.org/article/10.3847/1538-4357/abf435/pdf
https://doi.org/10.3847/1538-4357/abf435
Хороший спектр. Для иллюстрации.

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

Sources of the Multi-Lane Type II Solar Radio Burst on 5 November 2014
M. S. **Lv**, Y. Chen, C. Y. Li, I. Zimovets, G. H. Du, B. Wang, S. W. Feng, S. L. Ma
Solar Physics December **2017**, 292:194
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1218-9.pdf

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

6 Nov – 01:39, M3.2/2N, N15E58, S5~110
03:46, M5.4/1N, N15E58, II/1, partial halo CME
22:16, M2.5/1N, N14E45, S5~250

Image Synthesis for Solar Flare Prediction
Elad **Amar**1 and Ohad Ben-Shahar2
ApJS 271 29 **2024**
https://iopscience.iop.org/article/10.3847/1538-4365/ad1dd4/pdf

Murchison Widefield Array Observations of Anomalous Variability: A Serendipitous Night-time Detection of Interplanetary Scintillation
D. L. **Kaplan**, S. J. Tingay, P. K. Manoharan, J.-P. Macquart, P. Hancock, J. Morgan, D. A. Mitchell, R. D. Ekers, R. B. Wayth, C. Trott, T. Murphy, D. Oberoi, I. H. Cairns, L. Feng, N. Kudryavtseva, G. Bernardi, J. D. Bowman, F. Briggs, R. J. Cappallo, A. A. Deshpande, B. M. Gaensler, L. J. Greenhill, N. Hurley-Walker,B. J. Hazelton, M. Johnston-Hollitt, C. J. Lonsdale, S. R. McWhirter, E. Morgan, S. M. Ord, T. Prabu, N. Udaya Shankar, K. S. Srivani, R. Subrahmanyan, R. L. Webster, A. Williams, C. L. Williams
ApJL **2015**
http://arxiv.org/pdf/1507.08236v1.pdf

7 Nov – 02:49, M2.7
04:25, M2.0
17:26, X1.6/3B LDE, AR 12205, N17E40, S15~260 → S3~560, partial halo CME, II/2

Survey of Magnetic Field Parameters Associated With Large Solar Flares
Ting **Li**, Yanfang Zheng, Xuefeng Li, Yijun Hou, Xuebao Li, Yining Zhang, Anqin Chen
ApJ **2024**
https://arxiv.org/pdf/2402.18890.pdf

Non-Neutralized Electric Currents as a Proxy for Eruptive Activity in Solar Active Regions
Y. **LIU** , 1 T. TOR¨ OK¨ , 2 V. S. TITOV , 2 J. E. LEAKE , 3 X. SUN (孙旭东) , 4 AND M. JIN
ApJ **2023**
http://sun.stanford.edu/~yliu/papers/neutralization_finalVersion.pdf

Structural evolution of a magnetic flux rope associated with a major flare in the solar active region 12205
A. Y. **Duan**, C. W. Jiang, Y. Guo, X. S. Feng, J. Cui
A&A, **2022**
https://doi.org/10.1051/0004-6361/202142061

Recurrent coronal jets observed by SDO/AIA
Yan-Jie **Zhang**, Qing-Min Zhang, Jun Dai, Zhe Xu, Hai-Sheng Ji
2021
https://arxiv.org/pdf/2107.07194.pdf

Electric current evolution at the footpoints of solar eruptions
Krzysztof **Barczynski**, Guillaume Aulanier, Miho Janvier, Brigitte Schmieder, Sophie Masson
ApJ **2020**
https://arxiv.org/pdf/2004.07990.pdf

Continuum enhancements, line profiles and magnetic field evolution during consecutive flares
Francesca **Zuccarello**, Salvo L. Guglielmino, Vincenzo Capparelli, Mihalis Mathioudakis, Peter H. Keys, Serena Criscuoli, Mariachiara Falco, Mariarita Murabito
ApJ **2019**
https://arxiv.org/pdf/1912.00859.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

Continuum emission enhancements and penumbral changes observed during flares by IRIS, ROSA, and Hinode
F. **Zuccarello**, S.L. Guglielmino, V. Capparelli, M. Mathioudakis, P. Keys, L. Fletcher, S. Criscuoli, M. Falco, M. Murabito
Nuovo Cimento C as proceeding of the Third Meeting of the Italian Solar and Heliospheric Community **2019**
https://arxiv.org/pdf/1901.01732.pdf

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

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

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

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

On the relationship between sunspot structure and magnetic field changes associated with solar flares
Yongliang **Song**, Mei Zhang
2016
http://arxiv.org/pdf/1605.01163v1.pdf

Slipping reconnection in a solar flare observed in high resolution with the GREGOR solar telescope
M. **Sobotka**, J. Dudík, C. Denker, H. Balthasar, J. Jurčák, W. Liu, T. Berkefeld, M. Collados Vera, A. Feller, A. Hofmann, F. Kneer, C. Kuckein, A. Lagg, R. E. Louis, O. von der Lühe, H. Nicklas, R. Schlichenmaier, D. Schmidt, W. Schmidt, M. Sigwarth, S. K. Solanki, D. Soltau, J. Staude, K. G. Strassmeier, R. Volkmer, T. Waldmann
A&A **2016**
http://arxiv.org/pdf/1605.00464v1.pdf

Multiwavelength Observations of a Slow Raise, Multi-Step X1.6 Flare and the Associated Eruption
Yurchyshyn, V., Kumar, P., Cho, K.S., Lim, E.K., & Abramenko, V.
ApJ **2015**
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8 Nov

Investigation of the Middle Corona with SWAP and a Data-Driven Non-Potential Coronal Magnetic Field Model
Karen A. **Meyer**, Duncan H. Mackay, Dana-Camelia Talpeanu, Lisa A. Upton & Matthew J. West
Solar Physics volume 295, Article number: 101 (**2020**)
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9 Nov – 15:32, M2.3/1B, AR AR 2205, N18E14, S15~260

A window into magnetic reconnection: IRIS observations of the consequences of reconnection during solar flares **Review**
Katharine **Reeves**
Front. Astron. Space Sci. 9: 1041951. **2022**
https://doi.org/10.3389/fspas.2022.1041951
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Quasi-Periodic Pulsations in Solar and Stellar Flares: A Review of Underpinning Physical Mechanisms and Their Predicted Observational Signatures
I. V. **Zimovets**, J. A. McLaughlin, A. K. Srivastava, D. Y. Kolotkov, A. A. Kuznetsov, E. G. Kupriyanova, I.-H. Cho, A. R. Inglis, F. Reale, D. J. Pascoe, H. Tian, D. Yuan, D. Li & Q. M. Zhang
Space Science Reviews volume 217, Article number: 66 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11214-021-00840-9.pdf
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The Neupert Effect of Flare UltraViolet and Soft X-ray Emissions
Jiong **Qiu**
ApJ **2021**
https://arxiv.org/pdf/2101.11069.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

Spectroscopic Observations of Magnetic Reconnection and Chromospheric Evaporation in an X-shaped Solar Flare
Y. **Li**, M. Kelly, M. D. Ding, J. Qiu, X. S. Zhu, W. Q. Gan
ApJ **2017**
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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

Observations of an X-shaped Ribbon Flare in the Sun and Its Three-dimensional Magnetic Reconnection
Y. **Li**, J. Qiu, D. W. Longcope, M. D. Ding, K. Yang
ApJL **2016**
http://arxiv.org/pdf/1605.01833v1.pdf

10 Nov – The CME observed on November 7 was observed arriving at 01:36 UTC on November 10 at SOHO. The interplanetary magnetic field became moderately strong, however, there haven't been any

significant southerly excursions of Bz yet and only a small increase in geomagnetic activity has been observed. Форбуш.

Observational Study on the Fine Structure and Dynamics of a Solar Jet. II. Energy Release Process Revealed by Spectral Analysis
Takahito **Sakaue**, Akiko Tei, Ayumi Asai, Satoru Ueno, Kiyoshi Ichimoto, Kazunari Shibata
PASJ **2017**
https://arxiv.org/pdf/1710.08441.pdf

Observational Study on the Fine Structure and Dynamics of a Solar Jet. I. Energy Build-Up Process around a Satellite Spot
Takahito **Sakaue**, Akiko Tei, Ayumi Asai, Satoru Ueno, Kiyoshi Ichimoto, Kazunari Shibata
PASJ **2017**
https://arxiv.org/pdf/1707.01262.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

11 Nov

Mingantu Spectral Radioheliograph for Solar and Space Weather Studies
Yihua **Yan**, Zhijun Chen, Wei Wang, Fei Liu, Lihong Geng, Linjie Chen, Chengming Tan, Xingyao Chen, Cang Su, and Baolin Tan
Front. Astron. Space Sci., 29 March **2021** |
https://doi.org/10.3389/fspas.2021.584043
https://www.frontiersin.org/articles/10.3389/fspas.2021.584043/full

Blue wing enhancement of the chromospheric Mg II h and k lines in a solar flare
Akiko **Tei**, Takahito Sakaue, Tekanori J. Okamoto, Tomoko Kawate, Petr Heinzel, Satoru Ueno, Ayumi Asai, Kiyoshi Ichimoto, Kazunari Shibata
PASJ **2018**
https://arxiv.org/pdf/1803.05237.pdf

First radio burst imaging observation from Mingantu Ultrawide Spectral Radioheliograph,".
Yan, Y., Chen, L., and Yu, S.
(**2016**). " In Solar and Stellar Flares and their Effects on Planets. Editors A. G. Kosovichev, S. L. Hawley, and P.Heinzel (Vienna, Austria: IAU Symposium), Vol. 320, 427–435.
https://sci-hub.st/10.1017/S174392131600051X

13 Nov

Observations of magnetic reconnection and particle acceleration locations in solar coronal jets
Yixian **Zhang**, Sophie Musset, Lindsay Glesener, Navdeep Panesar, Gregory Fleishman
ApJ **943** 180 **2023**
https://arxiv.org/pdf/2207.05668.pdf
https://iopscience.iop.org/article/10.3847/1538-4357/aca654/pdf
RHESSI Science Nuggets #445 Mar **2023**
https://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Particle_Acceleration_in_Two_Coronal_Jets

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

The Low-Frequency Solar Corona in Circular Polarization
Patrick I. **McCauley**, Iver H. Cairns, Stephen M. White, Surajit Mondal, Emil Lenc, John Morgan, Divya Oberoi
Solar Phys. **2019**
https://arxiv.org/pdf/1907.10878.pdf

15 Nov
Full velocities and propagation directions of coronal mass ejections inferred from simultaneous full-disk imaging and Sun-as-a-star spectroscopic observations
Hong-peng Lu, Hui Tian, He-chao Chen, Yu Xu, Zhen-yong Hou, Xian-yong Bai, Guang-yu Tan, Zi-hao Yang, Jie Ren
ApJ 2023
https://arxiv.org/pdf/2305.08765.pdf

15-17 Nov The three homologous flares
Standard soft X-ray records for three days early in the returned life of AR 2192, now known as AR 2209. The three similar M-class flares each have an impulsive spike, followed by a longer-duration tail resulting from the cooling of the flare loops in the usual pattern.

Back from the Far Side
Hugh **Hudson** and Greg Slater
RHESSI Science Nugget, No. 240, Nov **2014**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Back_from_the_Far_Side

Rapidly growing NOAA AR12192 about to rotate back into Sun's near hemisphere
Charlie Lindsey
http://solarnews.nso.edu/2014/20141115.html

16 Nov
Observation of a reversal of breakout reconnection preceding a jet: evidence of oscillatory magnetic reconnection?
Junchao **Hong**, Jiayan Yang, Huadong Chen, Yi Bi, Bo Yang, Hechao Chen
ApJ **2019**
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16-23 Nov

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

Improving Coronal Magnetic Field Models Using Image Optimization
Shaela I. **Jones**1,2, Vadim M. Uritsky1,2, Joseph M. Davila1, and Vladimir N. Troyan3
2020 ApJ 896 57
https://doi.org/10.3847/1538-4357/ab8cb9

Properties of quasi-periodic pulsations in solar flares from a single active region
C. E. **Pugh**, V. M. Nakariakov, A.-M. Broomhall, A. V. Bogomolov, I. N. Myagkova
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18 Nov

The Evolution of Magnetic Rayleigh-Taylor Unstable Plumes and Hybrid KH-RT Instability into A Loop-like Eruptive Prominence
Sudheer K. **Mishra**, A.K. Srivastava
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https://arxiv.org/pdf/1902.05044.pdf

18-28 Nov

Anomalous Surge of the White-Light Corona at the Onset of the Declining Phase of Solar Cycle 24
P. **Lamy**, B. Boclet, J. Wojak, D. Vibert
Solar Physics April **2017**, 292:60
http://link.springer.com/content/pdf/10.1007%2Fs11207-017-1085-4.pdf

19 Nov

Stealth Non-standard-model Confined Flare Eruptions: Sudden Reconnection Events in Ostensibly Inert Magnetic Arches from Sunspots
Ronald L. **Moore**, Sanjiv K. Tiwari, Navdeep K. Panesar, V. Aparna, Alphonse C. Sterling
ApJ **2024**
https://arxiv.org/pdf/2408.09021

Transition Region and Chromospheric Signatures of Impulsive Heating Events. II. Modeling
Jeffrey W. **Reep**, Harry P. Warren, Nicholas A. Crump, Paulo J.A. Simoes
ApJ **2016**
http://arxiv.org/pdf/1607.06684v1.pdf

Transition Region and Chromospheric Signatures of Impulsive Heating Events. I. Observations
Harry P. **Warren**, Jeffrey W. Reep, Nicholas A. Crump, Paulo J. A. Simoes
ApJ **2016**
http://arxiv.org/pdf/1606.09045v1.pdf

СТРУКТУРА БОЛЬШОЙ АКТИВНОЙ ОБЛАСТИ NOAA 12209 ПО МИКРОВОЛНОВЫМ НАБЛЮДЕНИЯМ НА РАТАН-600 И VLA
Кальтман Т.И.1, Бастиан Т.С.2, Богод В.М.1, Гэри Д.Е.3,
Тохчукова С.Х.1, Уайт С.М.4, Флейшман Г.Д.3,
Яснов Л.В.5, Ступишин А.Г.5, Чен Б.6
Пулково *«Солнечная и солнечно-земная физика – **2015**», с. 185*

20 Nov

Stealth Non-standard-model Confined Flare Eruptions: Sudden Reconnection Events in Ostensibly Inert Magnetic Arches from Sunspots
Ronald L. **Moore**, Sanjiv K. Tiwari, Navdeep K. Panesar, V. Aparna, Alphonse C. Sterling
ApJ **2024**
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21 Nov

Cold Solar Flares. I. Microwave Domain
Alexandra L. **Lysenko**1, Stephen M. White2, Dmitry A. Zhdanov3, Nataliia S. Meshalkina3, Aleksander T. Altyntsev3, Galina G. Motorina1,4,5, and Gregory D. Fleishman6,7
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The Low-Frequency Solar Corona in Circular Polarization
Patrick I. **McCauley**, Iver H. Cairns, Stephen M. White, Surajit Mondal, Emil Lenc, John Morgan, Divya Oberoi
Solar Phys. **2019**
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23 Nov
Statistical Study of the Magnetic Field Orientation in Solar Filaments
Yoichiro **Hanaoka**, Takashi Sakurai
2017
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24-28 Nov

On the possibility to probe the flare productivity of an active region on the early stage of emergence
Alexander S. **Kutsenko**, Valentina I. Abramenko, Olga K. Kutsenko
MNRAS **2020**
https://arxiv.org/pdf/2011.12062.pdf
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Investigation of the Middle Corona with SWAP and a Data-Driven Non-Potential Coronal Magnetic Field Model
Karen A. **Meyer**, Duncan H. Mackay, Dana-Camelia Talpeanu, Lisa A. Upton & Matthew J. West
Solar Physics volume 295, Article number: 101 (**2020**)
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25 Nov
The Low-Frequency Solar Corona in Circular Polarization
Patrick I. **McCauley**, Iver H. Cairns, Stephen M. White, Surajit Mondal, Emil Lenc, John Morgan, Divya Oberoi
Solar Phys. **2019**
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26 Nov
Three-minute Sunspot Oscillations Driven by Magnetic Reconnection in a Light Bridge
Donguk **Song**, Jongchul Chae, Hannah Kwak, Ryouhei Kano, Vasyl Yurchyshyn, Yong-Jae Moon, Eun-Kyung Lim, Jeongwoo Lee
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Dynamic Property and Magnetic Nonpotentiality of Two Types of Confined Solar Flares
Xuchun **Duan**, Ting Li, Qihang Jing

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The Neupert Effect of Flare UltraViolet and Soft X-ray Emissions
Jiong **Qiu**
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Further Evidence for Looplike Fine Structure inside "Unipolar" Active Region Plages
Y.-M. **Wang**, I. Ugarte-Urra, and J. W. Reep
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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
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Heliospheric 3-D MHD ENLIL simulations of multi-CME and multi-spacecraft events
Dusan **Odstrcil**
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18:25: M6.1, ~S21W33, S15~74, **The explosion did not hurl a CME into space,**

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
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On the seismic emission in sunspots associated with Lorentz force changes accompanying major solar flares
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A Study of Pre-Flare Solar Coronal Magnetic Fields: Magnetic Flux Ropes
Aiying **Duan**, Chaowei Jiang, Wen He, Xueshang Feng, Peng Zou, Jun Cui
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Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima

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Investigation of the Middle Corona with SWAP and a Data-Driven Non-Potential Coronal Magnetic Field Model
Karen A. **Meyer**, Duncan H. Mackay, Dana-Camelia Talpeanu, Lisa A. Upton & Matthew J. West
Solar Physics volume 295, Article number: 101 (**2020**)
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Simultaneous Observations of p-mode Light Walls and Magnetic Reconnection Ejections above Sunspot Light Bridges
Yijun **Hou**1,2, Jun Zhang1,2, Ting Li1,2, Shuhong Yang1,2, and Xiaohong Li
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Simulating the Coronal Evolution of Bipolar Active Regions to Investigate the Formation of Flux Ropes
Stephanie L. **Yardley**, Duncan H. Mackay, Lucie M. Green
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Shock Heating Energy of Umbral Flashes Measured with Integral Field Unit Spectroscopy
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EVIDENCE OF SIGNIFICANT ENERGY INPUT IN THE LATE PHASE OF A SOLAR FLARE FROM NuSTAR X-RAY OBSERVATIONS
Matej **Kuhar**1,2, Säm Krucker1,3, Iain G. Hannah4, Lindsay Glesener5, Pascal Saint-Hilaire3,Brian W. Grefenstette6, Hugh S. Hudson3,7, Stephen M. White8, David M. Smith9, Andrew J. Marsh9
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10-14 Dec

Formation and Dynamics of Transequatorial Loops
Avyarthana **Ghosh**, Durgesh Tripathi
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FOXSI-2 Solar Microflares II: Hard X-ray Imaging Spectroscopy and Flare Energetics
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P. S. **Athiray**1,2, Juliana Vievering1, Lindsay Glesener1, Shin-nosuke Ishikawa3, Noriyuki Narukage4, Juan Camilo Buitrago-Casas5, Sophie Musset1, Andrew Inglis6, Steven Christe7, Säm Krucker5,8Show full author list
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Detection of nanoflare-heated plasma in the solar corona by the FOXSI-2 sounding rocket
Shin-nosuke **Ishikawa**, Lindsay Glesener, Säm Krucker, Steven Christe, Juan Camilo Buitrago-Casas, Noriyuki Narukage & Juliana Vievering
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The nature of energy source powering solar coronal loops driven by nanoflares
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The First Focused Hard X-ray Images of the Sun with NuSTAR
Brian W. **Grefenstette**, Lindsay Glesener, S□äm Krucker, Hugh Hudson, Iain G. Hannah, David M. Smith, Julia K. Vogel, Stephen M. White, Kristin K. Madsen, Andrew J. Marsh, Amir Caspi, Bin Chen, Albert Shih, Matej Kuhar, Steven E. Boggs, Finn E. Christensen, William W. Craig, Karl Forster, Charles J. Hailey, Fiona A. Harrison, Hiromasa Miyasaka, Daniel Stern, William W. Zhang
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12 Dec - ~ 02:30: **эрупция NE/центрального волокна**, CME

Small-scale Flux Emergence, Coronal Hole Heating, and Flux-tube Expansion: A Hybrid Solar Wind Model
Y.-M. **Wang**
2020 ApJ 904 199
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Magnetic Coupling of the Solar Hemispheres During the Solar Cycle
V. N. **Obridko**, V. G. Fainshtein, Y. S. Zagainova & G. V. Rudenko
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Solar Demon – an approach to detecting flares, dimmings, and EUV waves on SDO/AIA images
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Further Evidence for Looplike Fine Structure inside "Unipolar" Active Region Plages
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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
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High Energy Solar Spectroscopic Imager
Samuel **Krucker**, Brian Dennis, Albert Shih, Manfred Bester
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The Sun's Non-Potential Corona over Solar Cycle 24
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Solar Phys. **2024**
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17 Dec – 01:50, M1.1, S11E33
ALMOST-X FLARE: 04:51, **M8.7**, S18E08 (AR 2242), , Type II, S5-9~780-770

Circular-ribbon flares and the related activities **Review**
Qingmin **Zhang**
Reviews of Modern Plasma Physics **2024**
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Onset and evolution of solar flares: Application of 2D and 3D models of magnetic reconnection
Bhuwan **Joshi**, Prabir K. Mitra , Astrid M. Veronig , R. Bhattacharyya
the 3rd BINA workshop, to be published in the Bulletin of the Liège Royal Society of Sciences **2023**
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Dimensionality of Solar Magnetic Reconnection **Review**
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Front. Astron. Space Sci., **2022**
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Statistical analysis of circular-ribbon flares
Yanjie **Zhang**, Qingmin Zhang, Dechao Song, Shuting Li, Jun Dai, Zhe Xu, Haisheng Ji
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Quasi-Periodic Pulsations in Solar and Stellar Flares: A Review of Underpinning Physical Mechanisms and Their Predicted Observational Signatures
I. V. **Zimovets**, J. A. McLaughlin, A. K. Srivastava, D. Y. Kolotkov, A. A. Kuznetsov, E. G. Kupriyanova, I.-H. Cho, A. R. Inglis, F. Reale, D. J. Pascoe, H. Tian, D. Yuan, D. Li & Q. M. Zhang
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The Neupert Effect of Flare UltraViolet and Soft X-ray Emissions
Jiong **Qiu**
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Evolutionary stages and triggering process of a complex eruptive flare with circular and parallel ribbons
Navin Chandra **Joshi** (USO/PRL, Dept. of Phys./SRM Univ.), Bhuwan Joshi (USO/PRL), Prabir K. Mitra (USO/PRL, Dept. of Phys./Gujarat Univ.)
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Jeongwoo **Lee**1, Stephen M. White2, Xingyao Chen3, Yao Chen4, Hao Ning4, Bo Li4, and Satoshi Masuda5
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Heating and Eruption of a Solar Circular-ribbon Flare
Jeongwoo **Lee**1,2,3, Judith T. Karpen4, Chang Liu1,2,3, and Haimin Wang1,2,3
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Chang **Liu**1,2,3, Jeongwoo Lee1,3, and Haimin Wang1,2,3
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Quasi-periodic Pulsations before and during a Solar Flare in AR 12242
Xingyao **Chen**, Yihua Yan, Baolin Tan, Jing Huang, Wei Wang, Linjie Chen, Yin Zhang, Chengming Tan, Donghao Liu, and Satoshi Masuda
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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
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Transient Mass Loss Analysis of Solar Observations using Stellar Methods
M. K. **Crosley**, R. A. Osten, C. Norman
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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**
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18 Dec - 21:58: Big sunspot AR2241 erupted, producing a strong **M6/2N-class** solar flare, S11E15, S5~420, type II, large CME.

Circular-ribbon flares and the related activities **Review**
Qingmin **Zhang**
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Formation of an observed eruptive flux rope above the torus instability threshold through tether-cutting magnetic reconnection
Avijeet **Prasad**, Sanjay Kumar, Alphonse C. Sterling, Ronald L. Moore, Guillaume Aulanier, R. Bhattacharyya, Qiang Hu
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The Role of Magnetic Shear in Reconnection-Driven Flare Energy Release
J. **Qiu**, M. Alaoui, S. K. Antiochos, J. T. Dahlin, M. Swisdak, J. F. Drake, A. Robison, C. R. DeVore, V. M. Uritsky
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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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A Study of Pre-Flare Solar Coronal Magnetic Fields: Magnetic Flux Ropes
Aiying **Duan**, Chaowei Jiang, Wen He, Xueshang Feng, Peng Zou, Jun Cui
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Predicting Flares and Solar Energetic Particle Events: The FORSPEF Tool
A. **Anastasiadis**, A. Papaioannou, I. Sandberg, M. Georgoulis, K. Tziotziou, A. Kouloumvakos, P. Jiggens
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Onset of a Large Ejective Solar Eruption from a Typical Coronal-Jet-Base Field Configuration
Navin Chandra **Joshi**, Alphonse C. Sterling, Ronald L. Moore, Tetsuya Magara, Young-Jae Moon
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Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
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Research in Astronomy and Astrophysics **2016**
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18-19 Dec
Formation and Eruption Process of a Filament in Active Region NOAA 12241
Jincheng **Wang**1,2,3, Xiaoli Yan1,3, ZhongQuan Qu1,2,3, Zhike Xue1,3, and Liheng Yang1,3
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19 Dec

Non-Neutralized Electric Currents as a Proxy for Eruptive Activity in Solar Active Regions
Y. **LIU** , 1 T. TOR¨ OK¨ , 2 V. S. TITOV , 2 J. E. LEAKE , 3 X. SUN (孙旭东) , 4 AND M. JIN
ApJ **2023**
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The Neupert Effect of Flare UltraViolet and Soft X-ray Emissions
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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
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Investigation of the Middle Corona with SWAP and a Data-Driven Non-Potential Coronal Magnetic Field Model
Karen A. **Meyer**, Duncan H. Mackay, Dana-Camelia Talpeanu, Lisa A. Upton & Matthew J. West
Solar Physics volume 295, Article number: 101 (**2020**)
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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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A Study of Pre-Flare Solar Coronal Magnetic Fields: Magnetic Flux Ropes
Aiying **Duan**, Chaowei Jiang, Wen He, Xueshang Feng, Peng Zou, Jun Cui
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Unraveling the Links among Sympathetic Eruptions

Dong **Wang**, Rui Liu, Yuming Wang, Tingyu Gou, Quanhao Zhang, Zhenjun Zhou, Min Zhang
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A diagnostic of coronal elemental behavior during the inverse FIP effect in solar flares
David H. **Brooks**
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https://arxiv.org/pdf/1807.04408.pdf

A Statistical Study of the Magnetic Imprints of X-Class Flares using SDO/HMI Vector Magnetograms
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Does Nearby Open Flux Affect the Eruptivity of Solar Active Regions?
Marc L. **DeRosa**, Graham Barnes
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https://arxiv.org/pdf/1802.01199.pdf

Features of Microwave Radiation and Magnetographic Characteristics of Solar Active Region NOAA 12242 Before the X1.8 Flare on December 20, 2014
V.E.**Abramov-Maximov** (1), V.N.Borovik (1), L.V.Opeikina (2), A.G.Tlatov (1), L.V.Yasnov (3) ((1) Central Astronomical Observatory at Pulkovo, Saint-Petersburg, Russia, (2) Special Astrophysical Observatory, Nizhnii Arkhyz, Russia, (3) St. Petersburg State University, Saint-Petersburg, Russia)
Geomagnetism and Aeronomy, **2017**, Vol. 57, No. 8, p.978
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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
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Departure of high temperature iron lines from the equilibrium state in flaring solar plasmas
Tomoko **Kawate**, Francis P. Keenan, David B. Jess
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On the relationship between sunspot structure and magnetic field changes associated with solar flares
Yongliang **Song**, Mei Zhang
2016
http://arxiv.org/pdf/1605.01163v1.pdf

Over a 48-hour period beginning on Dec. 21st, **a series of three CMEs** swept past Earth, delivering glancing blows to our planet's magnetosphere.

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

Probing Velocity Dispersion inside CMEs in Inner Corona: New Insights on CME Initiation

Satabdwa **Majumdar**, Elke D' Huys, Marilena Mierla, Nitin Vashishtha, Dana-Camelia Talpeanu, Dipankar Banerjee, Martin A. Reiss
ApJL **2024**
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Effects of solar flares and coronal mass ejections on Earth's horizontal magnetic field and solar wind parameters during the minimum solar cycle 24
S N A Syed **Zafar**, R Umar, N H Sabri, M H Jusoh, A N Dagang, A Yoshikawa
Monthly Notices of the Royal Astronomical Society, Volume 504, Issue 3, July **2021**, Pages 3812–3822,
https://doi.org/10.1093/mnras/stab1161

Solar Filaments and Interplanetary Magnetic Field Bz
V. **Aparna** and Petrus C. Martens
2020 ApJ 897 68
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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
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21-25 Dec
Refined Modeling of Geoeffective Fast Halo CMEs During Solar Cycle 24
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