2015

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

ftp://ftp.sec.noaa.gov/pub/warehouse/2015/2015_plots/xray/
ftp://ftp.sec.noaa.gov/pub/warehouse/2015/2015_plots/proton/

1 Jan

Large Scale Evaluation of Deep Learning-based Explainable Solar Flare Forecasting Models with Attribution-based Proximity Analysis

Temitope **Adeyeha**, Chetraj Pandey, Berkay Aydin
IEEE International Conference on Big Data **2024**
https://arxiv.org/pdf/2411.18070

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

2 Jan

The Flare Likelihood and Region Eruption Forecasting (FLARECAST) Project: Flare forecasting in the big data & machine learning era **Review**

M. K. **Georgoulis**, D. S. Bloomfield, M. Piana, A. M. Massone, M. Soldati, P. T. Gallagher, E. Pariat, N. Vilmer, E. Buchlin, F. Baudin, A. Csillaghy, H. Sathiapal, D. R. Jackson, P. Alingery, F. Benvenuto, C. Campi, K. Florios, C. Gontikakis, C. Guennou, J. A. Guerra, I. Kontogiannis, V. Latorre, S. A. Murray, S.-H. Park, S. von Stachelski, A. Torbica, D. Vischi, M. Worsfold
Journal of Space Weather and Space Climate, **2021**
https://arxiv.org/pdf/2105.05993.pdf

3 Jan

Determining the source and eruption dynamics of a stealth CME using NLFFF modelling and MHD simulations

Stephanie L. **Yardley**, Paolo Pagano, Duncan H. Mackay, Lisa A. Upton
A&A **2021**
https://arxiv.org/pdf/2106.14800.pdf

3-7 Jan

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**

Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures

Nariaki V. **Nitta**, Tamitha Mulligan
Solar Physics September **2017**, 292:125 **File**

4 Jan

Study of Reconnection Dynamics and Plasma Relaxation in MHD simulation of a Solar Flare
Satyam **Agarwal**, Ramit Bhattacharyya, Shangbin Yang
Solar Phys. **2024**
https://arxiv.org/pdf/2401.11417.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

5 Jan
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

6-7 Jan
REDEFINING THE BOUNDARIES OF INTERPLANETARY CORONAL MASS EJECTIONS FROM OBSERVATIONS AT THE ECLIPTIC PLANE
C. **Cid**, J. Palacios, E. Saiz, and A. Guerrero
2016 ApJ 828 11

7 Jan – Значительная геобуря Dst~-105, unexpected, related to the arrival of a CME originally expected to miss Earth. There was no solar wind shock and the passage of the magnetic cloud may have been related to a corotating interaction region associated with CH649.

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

КОСМИЧЕСКИЕ ЛУЧИ В ПЕРИОД ГЕОМАГНИТНОГО ВОЗМУЩЕНИЯ В ЯНВАРЕ 2015 Г
КРАВЦОВА М.В.*1, СДОБНОВ В.Е.1
Косм. Исслед. Том: 57Номер: 1 Год: **2019** Страницы: 17-20

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**).

7-8 Jan
Measurements and Simulations of the Geomagnetically Induced Currents in Low-latitude Power Networks During Geomagnetic Storms
J. J. **Zhang** , Y. Q. Yu , C. Wang, D. Du , D. Wei , L. G. Liu
Space Weather **Volume18, Issue8** e2020SW002549 **2020**
https://doi.org/10.1029/2020SW002549
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002549

7-10 Jan

Magnetic evolution of active regions: formation and eruption of magnetic flux ropes

Review

P. **Vemareddy**
IAU 388 proc. **2024**
https://arxiv.org/pdf/2410.02670

Successive Injection of Opposite Magnetic Helicity: Evidence for Active Regions without Coronal Mass Ejections

P. **Vemareddy**
MNRAS **2021**
https://arxiv.org/pdf/2108.07741.pdf

8 Jan

Estimating the coronal and chromospheric magnetic fields of solar active regions as observed with the Nobeyama Radioheliograph Compared with the Extrapolated Linear Force-Free Field

A. **Mouner**, Abdelrazek M. K. Shaltout, M. M. Beheary, K.A.K. Gadallah, K. A. Edris
2018
https://arxiv.org/ftp/arxiv/papers/1802/1802.04598.pdf

9 Jan

The Evolution of Photospheric Magnetic Fields at the Footpoints of Reconnected Structures in the Solar Atmosphere

Tao **Ding**1, Jun Zhang1, Yue Fang1, Junchao Hong2, Yi Bi2, and Yongyuan Xiang2
2024 ApJ 964 16
https://iopscience.iop.org/article/10.3847/1538-4357/ad245f/pdf

Observational Evidence of Magnetic Reconnection Associated with Magnetic Flux Cancellation

Bo **Yang**, Jiayan Yang, Yi Bi, Junchao Hong, Haidong Li, Zhe Xu, Hechao Chen
2018
https://arxiv.org/pdf/1806.04857.pdf

10 Jan

What Causes Faint Solar Coronal Jets from Emerging Flux Regions in Coronal Holes?

Abigail R. **Harden**, Navdeep K. Panesar, Ronald L. Moore, Alphonse C. Sterling, Mitzi L. Adams
ApJ **2021**
https://arxiv.org/pdf/2103.07813.pdf

11 Jan

Various Activities above Sunspot Light Bridges in IRIS Observations: Classification and Comparison

Yijun **Hou**, Ting Li, Shuhong Yang, Shin Toriumi, Yilin Guo, Jun Zhang
ApJ **2022**
https://arxiv.org/pdf/2202.10159.pdf

12 Jan - ~15 UT: заметная эрупция SE волокна(?)

From Pseudostreamer Jets to CMEs: Observations of the Breakout Continuum

Pankaj **Kumar**, Judith T. Karpen, Spiro K. Antiochos, Peter F. Wyper, C. Richard DeVore, Benjamin J. Lynch
ApJ **2020**
https://arxiv.org/pdf/2011.07029.pdf **File**

13 Jan – Sunspot AR2257 (N06W70) erupted, producing an M5/2B-class short-LDE flare at 04:24 UT. S5~350. Почти без метрового излучения, без CME и без протонов.

Temperature and differential emission measure evolution of a limb flare on 13 January 2015
M. **Bröse**1,2,3, A. Warmuth1, T. Sakao4,5 and Y. Su6,7
A&A 663, A18 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/07/aa41868-21.pdf

A Two-ribbon White-light Flare Associated with a Failed Solar Eruption Observed by ONSET, SDO, and IRIS
X. **Cheng**, Q. Hao, M. D. Ding, K. Liu, P. F. Chen, C. Fang, Y. D. Liu
ApJ **2015**
http://arxiv.org/pdf/1507.02109v1.pdf

14 Jan

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

Solar Active Region Coronal Jets II: Triggering and Evolution of Violent Jets
Alphonse C. **Sterling**, Ronald L. Moore, David A. Falconer, Navdeep K. Panesar, Francisco Martinez
Astrophysical Journal, 844:28 (20pp), **2017**
https://arxiv.org/pdf/1705.03040.pdf
https://iopscience.iop.org/article/10.3847/1538-4357/aa7945/pdf

MINIFILAMENT ERUPTION AS THE SOURCE OF A BLOWOUT JET, C-CLASS FLARE, AND TYPE-III RADIO BURST
Junchao **Hong**, Yunchun Jiang, Jiayan Yang, Haidong Li1, and Zhe Xu1
2017 ApJ 835 35
http://sci-hub.cc/doi/10.3847/1538-4357/835/1/35

15 Jan
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

16-19 Jan
Extended statistical analysis of emerging solar active regions
Alexander S **Kutsenko** Valentina I Abramenko Alexei A Pevtsov
MNRAS Volume 484, Issue 3, 11 April **2019**, Pages 4393–4400,
http://sci-hub.tw/10.1093/mnras/stz308
https://arxiv.org/pdf/1811.12089.pdf

19 Jan
Solar Kinetic Energy and Cross Helicity Spectra
Hongqi **Zhang**1 and Axel Brandenburg
2018 ApJL 862 L17
http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/2041-8213/aad337/meta
https://arxiv.org/pdf/1804.10321.pdf

Intermittency spectra of current helicity in solar active regions
A. S. **Kutsenko**, V. I. Abramenko, K. M. Kuzanyan, Haiqing Xu, Hongqi Zhang
MNRAS **2018**
https://arxiv.org/pdf/1802.02323.pdf

20 Jan

Solar Jet Hunter: a citizen science initiative to identify coronal jets in EUV data sets
S. **Musset**, P. Jol, R. Sankar, S. Alnahari, C. Kapsiak, E. Ostlund, K. Lasko, L. Glesener, L. Fortson, G. D. Fleishman, N. K. Panesar, Y. Zhang, M. Jeunon, N. Hurlburt
A&A **2023**
https://arxiv.org/pdf/2309.14871.pdf

The Brightness Temperature of the Quiet Solar Chromosphere at 2.6 mm
Kazumasa **Iwai**, Masumi Shimojo, Shinichiro Asayama, Tetsuhiro Minamidani, Stephen White, Timothy Bastian, Masao Saito
Solar Phys. 292:22 **2017**
https://arxiv.org/pdf/1612.08241v1.pdf
[CESRA] highlight #1325 Apr **2017**
http://www.astro.gla.ac.uk/users/eduard/cesra/?p=1325

22 Jan
Solar Jet Hunter: a citizen science initiative to identify coronal jets in EUV data sets
S. **Musset**, P. Jol, R. Sankar, S. Alnahari, C. Kapsiak, E. Ostlund, K. Lasko, L. Glesener, L. Fortson, G. D. Fleishman, N. K. Panesar, Y. Zhang, M. Jeunon, N. Hurlburt
A&A **2023**
https://arxiv.org/pdf/2309.14871.pdf

24 Jan

Excitation and Damping of Slow Magnetosonic Waves in Flaring Hot Coronal Loops: Effects of Compressive Viscosity
Leon **Ofman**, Tongjiang Wang
ApJ **2021**
https://arxiv.org/pdf/2111.10696.pdf

Multi-instrument observations of a failed flare eruption associated with MHD waves in a loop bundle
Giuseppe **Nisticò**, Vanessa Polito, Valery M. Nakariakov, Giulio del Zanna
A&A 2016
https://arxiv.org/pdf/1612.02077v1.pdf

24-28 Jan
Magnetic Power Spectra of Emerging Active Regions
Olga K. **Kutsenko**, Alexander S. Kutsenko, Valentina I. Abramenko
Solar Phys. **2019**
https://arxiv.org/pdf/1907.07952.pdf

26 Jan
Development of a Confined Circular-cum-parallel Ribbon Flare and Associated Pre-flare Activity
Pooja **Devi**, Bhuwan Joshi, Ramesh Chandra, Prabir K. Mitra, Astrid M. Veronig3, Reetika Joshi
Solar Phys. **2020**
https://arxiv.org/pdf/2005.09586.pdf

28 Jan

On the partial eruption of a bifurcated solar filament structure
Aabha **Monga**, Rahul Sharma, Jiajia Liu, Consuelo Cid, Wahab Uddin, Ramesh Chandra, Robertus Erdelyi
MNRAS **2020**
https://arxiv.org/pdf/2009.08619.pdf

29 Jan

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

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

Generation mechanisms of quasi-parallel and quasi-circular flare ribbons in a confined flare
Aaron **Hernandez-Perez**, Julia K. Thalmann, Astrid M. Veronig, Yang Su, Peter Gömöry, Ewan C. Dickson
ApJ **2017**
https://arxiv.org/pdf/1708.08612.pdf

29-30 Jan
Transition from circular-ribbon to parallel-ribbon flares associated with a bifurcated magnetic flux rope
Z. **Zhong**, Y. Guo, M. D. Ding, C. Fang, Q. Hao
ApJ **2018**
https://arxiv.org/pdf/1812.10223.pdf

30 Jan

Stability of the coronal magnetic field around large confined and eruptive solar flares
Manu **Gupta**, J. K. Thalmann, A. M. Veronig
A&A **2024**
https://arxiv.org/pdf/2402.12254.pdf

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

The role of non-axisymmetry of magnetic flux rope in constraining solar eruptions
Ze **Zhong**, Yang Guo, Mingde Ding
Nature Communications volume 12, Article number: 2734 (**2021**)
https://arxiv.org/pdf/2105.07339.pdf

Comparing two intervals of exceptionally strong solar rotation recurrence of galactic cosmic rays
A. **Gil** and K. Mursula
JGR **2018**
http://sci-hub.tw/https://onlinelibrary.wiley.com/doi/abs/10.1029/2018JA025523

1 Feb
Critical magnetic field strengths for solar coronal plumes in quiet regions and coronal holes?
Ellis A. **Avallone**, Sanjiv K. Tiwari, Navdeep K. Tiwari, Ronald L. Moore, Amy Winebarger
ApJ **2018**

https://arxiv.org/pdf/1805.11188.pdf

1-28 Feb

Uncertainty Estimates of Solar Wind Prediction using HMI Photospheric Vector and Spatial Standard Deviation Synoptic Maps
Bala **Poduval**, Gordon Petrie, Luca Bertello
Solar Phys. **2020**
https://arxiv.org/pdf/2008.06538.pdf

2 Feb

Achievements and Lessons Learned from Successful Small Satellite Missions for Space Weather-Oriented Research
Harlan E. **Spence**, Amir Caspi, Hasan Bahcivan, Jesus Nieves-Chinchilla, Geoff Crowley, James Cutler, Chad Fish, David Jackson, Therese Moretto Jørgensen, David Klumpar, Xinlin Li, James P. Mason, Nick Paschalidis, John Sample, Sonya Smith, Charles M. Swenson, Thomas N. Woods
Space Weather **2022**
https://arxiv.org/ftp/arxiv/papers/2206/2206.02968.pdf

2-12 Feb

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

3 Feb

Evolution of the Ratio of Mg II Intensities During Solar Flares
Soumya **Roy**, Durgesh Tripathi
ApJ **2024**
https://arxiv.org/pdf/2402.11189.pdf

Rotating Magnetic Structures Associated with a Quasi-circular Ribbon Flare
Haidong **Li**1,2, Yunchun Jiang1, Jiayan Yang1, Bo Yang1,2, Zhe Xu1,2, Junchao Hong1, and Yi Bi1
2017 ApJ 836 235 10.3847/1538-4357/aa5eac
http://sci-hub.cc/10.3847/1538-4357/aa5eac

5 Feb

Exploring the magnetic and thermal evolution of a coronal jet
Sushree S **Nayak**, Samrat Sen, Arpit Kumar Shrivastav, R. Bhattacharyya, P.S. Athiray
ApJ **2024**
https://arxiv.org/pdf/2409.03484

Interaction of solar jets with filaments: Triggering of large-amplitude filament oscillations
Reetika **Joshi**, Manuel Luna, Brigitte Schmieder, Fernando Moreno-Insertis, Ramesh Chandra
A&A **2023**
https://arxiv.org/pdf/2301.13103.pdf

6 Feb

Blowout Surge due to Interaction between a Solar Filament and Coronal Loops
Haidong **Li**1,2,3, Yunchun Jiang1,2, Jiayan Yang1,2, Zhining Qu4, Bo Yang1,2, Zhe Xu1,2,3, Yi Bi1,2,Junchao Hong1,2, and Hechao Chen
2017 ApJL 842 L20

http://iopscience.iop.org.sci-hub.cc/2041-8205/842/2/L20/

7 Feb

Solar Ultraviolet Bursts in a Coordinated Observation of IRIS, Hinode and SDO
Yajie **Chen**, Hui Tian, Xiaoshuai Zhu, Tanmoy Samanta, Linghua Wang, Jiansen He
Science China, Technological Sciences **2019**
https://arxiv.org/pdf/1902.04226.pdf

9 Feb

Eruption of EUV Hot-Channel near Solar Limb and Associated Moving Type-IV Radio Burst
P. **Vemareddy**, P. Démoulin, K. Sasikumar Raja, J. Zhang, N. Gopalswamy, N. Vasantharaju
ApJ **2022**
https://arxiv.org/pdf/2201.06899.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

9-10 Feb

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

10 Feb

Analysis of quiet-sun turbulence on the basis of SDO/HMI and Goode Solar Telescope data
Valentina I. **Abramenko**, Vasyl B. Yurchyshyn
MNRAS **2020**
https://arxiv.org/pdf/2008.06264.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

12 Feb

Improvements to the Empirical Solar Wind Forecast (ESWF) model
D. **Milošić**, M. Temmer, S. G. Heinemann, T. Podladchikova, A. Veronig & B. Vršnak
Solar Physics volume 298, Article number: 45 (**2023**)
https://link.springer.com/content/pdf/10.1007/s11207-022-02102-5.pdf

13 Feb

Subarcsecond Bright Points and Quasi-periodic Upflows Below a Quiescent Filament Observed by the IRIS
Ting **Li**, Jun Zhang
A&A **2016**
http://arxiv.org/pdf/1603.02809v1.pdf

14 Feb

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

15 Feb

Center-to-limb Variations in Solar Plage Using IRIS Observations

Pradeep **Kayshap** and Peter R. Young
2024 ApJ 977 141
https://iopscience.iop.org/article/10.3847/1538-4357/ad901d/pdf

Hot prominence spicules launched from turbulent cool solar prominences
L. P. **Chitta**, H. Peter, L. Li
A&A Letters **2019**
https://arxiv.org/pdf/1906.09125.pdf

Ground-based Observations of the Solar Sources of Space Weather (Invited Review)
Astrid M. **Veronig**, Werner Pötzi
"Ground-based Solar Observations in the Space Instrumentation Era", Proceedings of the Coimbra Solar Physics Meeting 2015, ASP Conference Series, Eds. I. Dorotovic, C. Fischer, and M. Temmer; **2016**
http://arxiv.org/pdf/1602.02721v1.pdf

21 Feb. - A backsided full halo CME was observed following a large filament eruption in the southern hemisphere. Слабые мягкие протоны.

Witnessing tether-cutting reconnection at the onset of a partial eruption
Hechao **Chen**, Yadan Duan, Jiayan Yang, Bo Yang, Jun Dai
2018
https://arxiv.org/pdf/1811.01606.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

24 Feb - at approximately 11:00 UTC, NASA's Solar Dynamics Observatory recorded a spectacular eruption near the sun's southeastern limb. The blast was rooted on the backside of the sun, but some of the explosion's debris fell back to the sun on the frontside. Play the movie.

НАЧАЛЬНЫЕ СКОРОСТИ КОРОНАЛЬНЫХ ВЫБРОСОВ МАСС И ОСОБЕННОСТИ СОПРОВОЖДАЕМЫХ ВСПЫШЕК
Дивлекеев М.И.
Пулково *«Солнечная и солнечно-земная физика – **2015**» с.115*

27 Feb
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

2 March - 15:30: Departing AR2290 (N22W91) erupted, producing an impulsive M3.7 flare. CME

19:31: impulsive M4.1 flare

Observations of a prominence eruption and loop contraction
Pooja **Devi**, Pascal Démoulin, Ramesh Chandra, Reetika Joshi, Brigitte Schmieder, Bhuwan Joshi
A&A **2021**
https://arxiv.org/pdf/2101.07682.pdf

Observations of Excitation and Damping of Transversal Oscillations in Coronal Loops by AIA/SDO
A. **Abedini**
Solar Physics February **2018**, 293:22
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1240-6.pdf

3 March - 01:35: NW-limb impulsive M8 flare, S15~740, слабый II тип , CME, протонов нет

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
ApJ 2016
https://arxiv.org/pdf/1612.02856v1.pdf

3-17 March
Acceleration of Energetic Ions in Corotating Interaction Region near 1.5 au: Evidence from MAVEN.
Thampi, S. V., Krishnaprasad, C., Shreedevi, P. R., Pant, T. K., & Bhardwaj, A.
(**2019**). The Astrophysical Journal, 880(1), L3.
sci-hub.se/10.3847/2041-8213/ab2b43
sci-hub.se/10.3847/2041-8213/ab2b43

4 Mar
Are the Magnetic Fields Radial in the Solar Polar Region?
Xudong **Sun**, Yang Liu, Ivan Milić, Ana Belén Griñón Marín
RNAAS **2021**
https://arxiv.org/pdf/2106.01461.pdf

5 March
Statistical Analysis and Catalog of Non-polar Coronal Holes Covering the SDO-Era Using CATCH
Stephan G. **Heinemann**, Temmer Manuela, Heinemann Niko, Dissauer Karin, Samara Evangelia, Jerčić Veronika, Stefan J. Hofmeister, Astrid M Veronig
Solar Phys. 294:144 **2019**
https://arxiv.org/pdf/1907.01990.pdf **File**
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1539-y.pdf

---
6-20 March – активность области 2297

Operational solar flare forecasting via video-based deep learning
Sabrina **Guastavino**, Francesco Marchetti, Federico Benvenuto, Cristina Campi, Michele Piana
Frontiers **2022**
https://arxiv.org/pdf/2209.05128.pdf

---

6 March – 04:57: M3.0 E-limb flare; S5~260, partial halo CME
08:15: M1.5 LDE, E-limb flare continuation

7 March – 22:22: **M9.2** flare (S18E75), S5~260, II,IV, fast partial halo CME

GIC due to storm sudden commencement in low-latitude high-voltage power network in China: Observation and simulation
J. J. **Zhang**, C. Wang, T. R. Sun, C. M. Liu, K. R. Wang
Space Weather Volume 13, Issue 10 p/ 626-642 **2015**
http://onlinelibrary.wiley.com/doi/10.1002/2015SW001263/full
http://onlinelibrary.wiley.com/doi/10.1002/2015SW001263/epdf

7-8 Mar

A Depression of Microwave Emission as a Response to the Appearance of a Jet
Kuzmenko, I. V.
Geomagnetism and Aeronomy, Volume 63, Issue 7, p.1047-1053, **2023**
DOI: 10.1134/S0016793223070150

Кузьменко И.В. Депрессия микроволнового излучения как отклик на возникновение джета
Сборник трудов XXVI Всероссийской ежегодной конференции по физике Солнца «Солнце и солнечно-земная физика – 2022» ГАО РАН.
http://www.gaoran.ru/russian/solphys/2022/book/conf2022.pdf
Non-thermal Broadening of IRIS Fe XXI Lines Caused by Turbulent Plasma Flows in the Magnetic Reconnection Region During Solar Eruptions
Chengcai **Shen**, Vanessa Polito, Katharine K. Reeves, Bin Chen, Sijie Yu, Xiaoyan Xie
2022
https://arxiv.org/pdf/2211.07428.pdf

9 March – 14:33: M4.5/1N, S16E49
23:53: M5.8/2N, S18E45, S5~400, II, At least a partial halo CME
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

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

9-19 Mar
Operational solar flare forecasting via video-based deep learning
Sabrina **Guastavino**, Francesco Marchetti, Federico Benvenuto, Cristina Campi, and Michele Piana
Front. Astron. Space Sci. 9:1039805. **2023** doi: 10.3389/fspas.2022.1039805
https://www.frontiersin.org/articles/10.3389/fspas.2022.1039805/pdf
https://www.frontiersin.org/articles/10.3389/fspas.2022.1039805/full

10 March – 03:24: M5.1/2B impulsive flare, S15E40, S15~2200, II(1)/IV(1), CME

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

Implications of Flat Optically Thick Microwave Spectra in Solar Flares for Source Size and Morphology
Shaheda Begum **Shaik**, Dale E. Gary
ApJ **2021**
https://arxiv.org/pdf/2107.00192.pdf

Microwave diagnostics of magnetic field strengths in solar flare loops
Rui **Zhu**, Baolin Tan, Yingna Su, Hui Tian, Yu Xu, Xingyao Chen, Yongliang Song, Guangyu Tan
SCIENCE CHINA Technological Sciences **2020** Vol. 60 No. 1
https://arxiv.org/pdf/2006.15014.pdf

Locating Hot Plasma in Small Flares using Spectroscopic Overlappogram Data from the Hinode EUV Imaging Spectrometer
Louise **Harra**, Sarah Matthews, David Long, Takahiro Hasegawa…
Solar Physics volume 295, Article number: 34 (**2020**)
sci-hub.si/10.1007/s11207-020-01602-6

A Circular White-Light Flare with Impulsive and Gradual White-Light Kernels
Q. **Hao**, K. Yang, X. Cheng, Y. Guo, C. Fang, M. D. Ding, P. F. Chen, Z. Li
Nature Communications **2017**
https://arxiv.org/pdf/1712.07279.pdf

Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions

Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
ApJ **2016**
https://arxiv.org/pdf/1611.05047v1.pdf

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

10-12 March

Temporal Behaviors of Magnetic Helicity Injections by Self and Mutual Sunspot Rotations

Takahiro **Hasegawa**1,2 and Toshifumi Shimizu1,2
2023 ApJ 943 96
https://iopscience.iop.org/article/10.3847/1538-4357/aca800/pdf

11 March – 00:02: M2.9/SF, S16E28, II(1)
07:18: M1.8/1B, S16E26, S9~190
>07:30: эрупция **NW волокна**, CME
07:57: M2.6
16;22: X2.1/2B quasi-impulsive flare, S17E21, S9~200, II(2)
~23:20: эрупция волокна рядом с AR 2297

Stability of the coronal magnetic field around large confined and eruptive solar flares
Manu **Gupta**, J. K. Thalmann, A. M. Veronig
A&A **2024**
https://arxiv.org/pdf/2402.12254.pdf

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

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

Unsupervised Machine Learning for the Identification of Pre-flare Spectroscopic Signatures
Magnus **Woods** (1,2), Alberto Sainz Dalda(1,2), Bart De Pontieu(2)
IRIS Nugget **2021**-08-10 https://iris.lmsal.com/nugget?cmd=view-pod&pubDate=2021-08-10

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

The Magnetic Topology and Eruption Mechanism of a Multiple-ribbon Flare
Ye **Qiu**, Yang Guo, M. D. Ding, Ze Zhong
ApJ **2020**
https://arxiv.org/pdf/2008.08866.pdf

On the seismic emission in sunspots associated with Lorentz force changes accompanying major solar flares
Hirdesh **Kumar**, Brajesh Kumar
MNRAS **2020**
https://arxiv.org/pdf/2007.05231.pdf

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

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

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

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

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

Characteristics that Produce White-Light Enhancements in Solar Flares Observed by Hinode/SOT
Kyoko **Watanabe**, Jun Kitagawa, Satoshi Masuda
ApJ **2017**
https://arxiv.org/pdf/1710.09531.pdf

An Explanation of Remarkable Emission-line Profiles in Post-flare Coronal Rain
Daniela A. **Lacatus**1, Philip G. Judge2, and Alina Donea
2017 ApJ 842 15
http://sci-hub.cc/10.3847/1538-4357/aa725d

Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions

Shin **Toriumi**, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
ApJ **2016**
https://arxiv.org/pdf/1611.05047v1.pdf

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

Slipping Magnetic Reconnection of Flux Rope Structures as a Precursor to an Eruptive X-class Solar Flare
Ting **Li**, Kai Yang, Yijun Hou, Jun Zhang
ApJ **2016**
http://arxiv.org/pdf/1608.02057v1.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*

Fine Structure in Flare Soft X-ray Light Curves
Brian **Dennis** and Kim Tolbert:
RHESSI Science Nuggets, No. 262, Sept **2015**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Fine_Structure_in_Flare_Soft_X-ray_Light_Curves

12 March

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

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

Circular ribbon flare triggered from an incomplete fan-spine configuration⋆

Prabir K. **Mitra**1,2, Astrid M. Veronig1,3 and Bhuwan Joshi2
A&A 674, A154 (**2023**)
https://www.aanda.org/articles/aa/pdf/2023/06/aa46103-23.pdf

Interrogating Solar Flare Loop Models with IRIS Observations 1: Overview of the Models, and Mass flows **Review**
Graham S. **Kerr**
Frontiers in Astronomy and Space Sciences **2022**
https://arxiv.org/pdf/2212.06647.pdf

Quasi-Periodic Pulsations in Solar and Stellar Flares: A Review of Underpinning Physical Mechanisms and Their Predicted Observational Signatures
I. V. **Zimovets**, J. A. McLaughlin, A. K. Srivastava, D. Y. Kolotkov, A. A. Kuznetsov, E. G. Kupriyanova, I.-H. Cho, A. R. Inglis, F. Reale, D. J. Pascoe, H. Tian, D. Yuan, D. Li & Q. M. Zhang
Space Science Reviews volume 217, Article number: 66 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11214-021-00840-9.pdf
https://doi.org/10.1007/s11214-021-00840-9

Implications of Flat Optically Thick Microwave Spectra in Solar Flares for Source Size and Morphology
Shaheda Begum **Shaik**, Dale E. Gary
ApJ **2021**
https://arxiv.org/pdf/2107.00192.pdf

Flare Expansion to a Magnetic Rope Accompanied by Rare Radio Bursts
Alena **Zemanová**, Marian Karlický, Jana Kašparová, and Jaroslav Dudík
2020 ApJ 905 111
https://doi.org/10.3847/1538-4357/abc424

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

Statistical Analysis of Torus and Kink Instabilities in Solar Eruptions
Ju **Jing**, Chang Liu, Jeongwoo Lee, Hantao Ji, Nian Liu, Yan Xu, Haimin Wang
2018
https://arxiv.org/pdf/1808.08924.pdf

Multi-episode Chromospheric Evaporation Observed in a Solar Flare
H. **Tian**1 and N.-H. Chen
2018 ApJ 856 34 10.3847/1538-4357/aab15a

The Duration of Energy Deposition on Unresolved Flaring Loops in the Solar Corona
Jeffrey W. **Reep**, Vanessa Polito, Harry P. Warren, Nicholas A. Crump
2018
https://arxiv.org/pdf/1802.08884.pdf

Multi-episode chromospheric evaporation observed in a solar flare
H. **Tian**, N.-H. Chen
ApJ **2018**
https://arxiv.org/pdf/1801.04370.pdf

OBSERVATION AND ANALYSIS OF BALLISTIC DOWNFLOWS IN AN M-CLASS FLARE WITH THE INTERFACE REGION IMAGING SPECTROGRAPH
Sean R. **Brannon**
2016 ApJ 833 101 DOI 10.3847/1538-4357/833/1/101

Global sausage oscillation of solar flare loops detected by the Interface Region Imaging Spectrograph
Hui **Tian**, Peter R. Young, Katharine K. Reeves, Tongjiang Wang, Patrick Antolin, Bin Chen, Jiansen He

ApJL **2016**

13 March

Locating Hot Plasma in Small Flares using Spectroscopic Overlappogram Data from the Hinode EUV Imaging Spectrometer

Louise **Harra**, Sarah Matthews, David Long, Takahiro Hasegawa…

Solar Physics volume 295, Article number: 34 (**2020**)

sci-hub.si/10.1007/s11207-020-01602-6

13-21 Mar

Wavelet Analysis of Forbush Decreases at High-Latitude Stations During Geomagnetic Disturbances

Roshan Kumar **Mishra**, Ashok Silwal, Rabin Baral, Binod Adhikari, Carlos Roberto Braga, Sujan Prasad Gautam, Priyanka Kumari Das & Yenca Migoya-Orue

Solar Physics volume 297, Article number: 26 (**2022**)

https://link.springer.com/content/pdf/10.1007/s11207-022-01948-z.pdf

14-15 Mar

Study of the excitation of large-amplitude oscillations in a prominence by nearby flares

Manuel **Luna**1,2⋆, Reetika Joshi3,4, Brigitte Schmieder5,6,7, Fernando Moreno-Insertis8,9, Valeriia Liakh6 and Jaume Terradas1,2

A&A, 691, A354 (**2024**)

https://www.aanda.org/articles/aa/pdf/2024/11/aa50869-24.pdf

https://arxiv.org/pdf/2410.10223

Study of Solar Jets and Related Flares **Thesis**

Reetika **Joshi**

Thesis **2022**

https://arxiv.org/pdf/2206.02478.pdf

15 March – 02:13: **эрупция волокна** + C9.1/1F **LDE**, S22W25, AR 2297, II(2), IV, гало CME, небольшие мягкие **протоны**

23:22: M1.2, ~LDE, небольшая добавка к протонам

Quasiperiodic Oscillations of Flare Loops and Slipping Motion of Ribbon Substructures during a C-class Flare

Yining **Zhang**1,2, Ting Li1,2,3, and Jing Ye4,5,6

2024 ApJ 972 122

https://iopscience.iop.org/article/10.3847/1538-4357/ad5e69/pdf

https://arxiv.org/pdf/2407.03639

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

Mechanism of the Failed Eruption of an Intermediate Solar Filament

Zou Peng1, Jiang Chaowei1, Wang Juntao1, and Bian Xinkai1

2022 ApJ 928 160

https://iopscience.iop.org/article/10.3847/1538-4357/ac581f/pdf

Modeling a Coronal Mass Ejection as a Magnetized Structure with EUHFORIA

G. **Sindhuja**1, Jagdev Singh1, E. Asvestari2, and B. Raghavendra Prasad1

2022 ApJ 925 25

https://iopscience.iop.org/article/10.3847/1538-4357/ac3bd2/pdf

Flare Energy Release at the Magnetic Field Polarity Inversion Line During M1.2 Solar Flare of 2015 March 15.
II. Investigation of Photospheric Electric Current and Magnetic Field Variations Using HMI 135-second Vector Magnetograms
I.N. **Sharykin**, I.V. Zimovets, I.I.Myshyakov
2020 *ApJ* **893** 159
https://arxiv.org/pdf/1905.03352.pdf
https://doi.org/10.3847/1538-4357/ab84ef

Evolution of Coronal and Interplanetary Shock Waves Inferred from a Radio Burst
Khaled **Alielden**
Solar Physics October 2019, 294:159
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1493-8.pdf

The Role of a Tiny Brightening in a Huge Geo-effective Solar Eruption Leading to the St Patrick's Day Storm
Yumi **Bamba**, Satoshi Inoue, Keiji Hayashi
ApJ **2019**
https://arxiv.org/pdf/1902.04871.pdf

Flare Energy Release in the Magnetic Field Polarity Inversion Line During M1.2 Solar Flare of March 15, 2015. Paper I. Onset of Plasma Heating and Electrons Acceleration
I.N. **Sharykin**, I.V. Zimovets, I.I. Myshyakov, N.S. Meshalkina
2018 *ApJ* **864** 156
https://arxiv.org/pdf/1805.05792.pdf

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

Observations of apparent superslow wave propagation in solar prominences
J.O. **Raes**, T. Van Doorsselaere, M. Baes, A.N. Wright
A&a **2017**
https://arxiv.org/pdf/1706.04340.pdf

Two Step Filament Eruption During 14-15 March 2015
R. **Chandra**, B. Filippov, R. Joshi, B. Schmieder
Solar Phys. **2017**
https://arxiv.org/pdf/1704.08860.pdf

Sympathetic Solar Filament Eruptions
Rui **Wang**, Ying D. Liu, Ivan Zimovets, Huidong Hu, Xinghua Dai, Zhongwei Yang
2016
http://arxiv.org/pdf/1608.01067v1.pdf

On the Propagation of a Geoeffective Coronal Mass Ejection during March 15 -- 17, 2015
Yuming **Wang**, Quanhao Zhang, Jiajia Liu, Chenglong Shen, Fang Shen, Zicai Yang, T. Zic, B. Vrsnak, D. F. Webb, Rui Liu, S. Wang, Jie Zhang, Qiang Hu, Bin Zhuang
JGR Volume 121, Issue 8, pp. 7423-7434 **2016**
http://arxiv.org/pdf/1607.07750v1.pdf **File**

15-17 March

Precursory Signs of Large Forbush Decreases
M. **Papailiou**, M. Abunina, H. Mavromichalaki, A. Belov, A. Abunin, E. Eroshenko & V. Yanke
Solar Physics volume 296, Article number: 100 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01844-y.pdf
https://doi.org/10.1007/s11207-021-01844-y

Acceleration of Energetic Ions in Corotating Interaction Region near 1.5 au: Evidence from MAVEN.
Thampi, S. V., Krishnaprasad, C., Shreedevi, P. R., Pant, T. K., & Bhardwaj, A.
(**2019**). The Astrophysical Journal, 880(1), L3.
sci-hub.se/10.3847/2041-8213/ab2b43
sci-hub.se/10.3847/2041-8213/ab2b43

On the Propagation of a Geoeffective Coronal Mass Ejection during March 15 -- 17, 2015
Yuming **Wang**, Quanhao Zhang, Jiajia Liu, Chenglong Shen, Fang Shen, Zicai Yang, T. Zic, B. Vrsnak, D. F. Webb, Rui Liu, S. Wang, Jie Zhang, Qiang Hu, Bin Zhuang
JGR Volume 121, Issue 8, pp. 7423-7434 **2016**
http://arxiv.org/pdf/1607.07750v1.pdf **File**

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

Magnetic Clouds: Solar Cycle Dependence, Sources, and Geomagnetic Impacts
Y. **Li**, J. G. Luhmann, B. J. Lynch
Solar Phys. **2018**
https://arxiv.org/ftp/arxiv/papers/1808/1808.04078.pdf

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

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

16 March – 10:58, M1.6/2N, S17W39
20:49: C8.1/1N, S22W48, S15~100

17 March - a CME hit Earth's magnetic field on March 17th at approximately 04:30,
The strongest geomagnetic storm of the current solar cycle Dst~-221 , **значительный форбуш**,
While the geomagnetic disturbance during the first half of the day was likely related to a recurrent co-rotating interaction region, the very strong disturbance after noon was likely a combination of the CIR and the arrival of the March 15 CME.

23:34: M1.0/2N, S21W56, AR 12297, S5~120, II(2)

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

Double Superposed Epoch Analysis of Geomagnetic Storms and Corresponding Solar Wind and IMF in Solar Cycles 23 and 24
V. **Manu**, N. Balan, Qing-He Zhang, Zan-Yang Xing
Space Weather Volume21, Issue3 e2022SW003314 **2023**
https://doi.org/10.1029/2022SW003314
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2022SW003314

Global geomagnetic perturbation forecasting using Deep Learning
Vishal **Upendran**, Panagiotis Tigas, Banafsheh Ferdousi, Teo Bloch, Mark C. M. Cheung, Siddha Ganju, Asti Bhatt, Ryan M. McGranaghan, Yarin Gal
Space Weather **2022**
https://arxiv.org/pdf/2205.12734.pdf

Comparison of Deep Learning Techniques to Model Connections Between Solar Wind and Ground Magnetic Perturbations
Amy M. **Keesee**1*, Victor Pinto1, Michael Coughlan1, Connor Lennox2, Md Shaad Mahmud2 and Hyunju K. Connor3
Front. Astron. Space Sci., 06 October **2020** |
https://doi.org/10.3389/fspas.2020.550874
https://www.frontiersin.org/articles/10.3389/fspas.2020.550874/full

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

Solar Activities and Its Impact on Space Weather
Pandit, Drabindra; Chapagain, Narayan P.; Adhikari, Binod; Mishra, Roshan K.
Long-term Datasets for the Understanding of Solar and Stellar Magnetic Cycles, Proceedings of the International Astronomical Union, IAU Symposium, Volume 340, pp. 149-150, **2018**
sci-hub.se/10.1017/S1743921318001606

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

Chapter 11 - Empirical Modeling of Extreme Events: Storm-Time Geomagnetic Field, Electric Current, and Pressure Distributions **Review**
Mikhail I.**Sitnov**∗Grant K.Stephens∗MatinaGkioulidou∗ViacheslavMerkin∗Aleksandr Y.Ukhorskiy∗HajeKorth∗Pontus C.Brandt∗Nikolai A.Tsyganenko†
In: Extreme Events in Geospace Origins, Predictability, and Consequences **2018**, Pages 259-279
http://sci-hub.tw/10.1016/B978-0-12-812700-1.00011-X

Chapter 8 - An Overview of Science Challenges Pertaining to Our Understanding of Extreme Geomagnetically Induced Currents
Chigomezyo M.**Ngwira***†Antti A.Pulkkinen†
In: Extreme Events in Geospace Origins, Predictability, and Consequences **2018**, Pages 187-208
http://sci-hub.tw/10.1016/B978-0-12-812700-1.00008-X

Magnetic Clouds: Solar Cycle Dependence, Sources, and Geomagnetic Impacts
Y. **Li**, J. G. Luhmann, B. J. Lynch
Solar Physics October **2018**, 293:135

https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1356-8.pdf

Space Weather Effects in the Earth's Radiation Belts **Review**
D. N. **Baker**, P. J. Erickson, J. F. Fennell, J. C. Foster, A. N. Jaynes, P. T. Verronen
Space Science Reviews February **2018**, 214:17
https://link.springer.com/content/pdf/10.1007%2Fs11214-017-0452-7.pdf

Study of the Geoeffectiveness and Galactic Cosmic-Ray Response of VarSITI-ISEST Campaign Events in Solar Cycle 24
O. P. M. **Aslam**, Badruddin
Solar Physics September **2017**, 292:135

A "Space Weather Buoy" Operated by Citizen Scientists
Phillips, T., et al.
(**2016**), Space Weather Ballooning, Space Weather, 14, 697–703
http://onlinelibrary.wiley.com/doi/10.1002/swq.12/pdf

Analysis of the monitoring data of geomagnetic storm interference in the electrification system of a high-speed railway
Lianguang **Liu**, Xiaoning Ge, Wei Zong, You Zhou,
Space Weather Volume 14, Issue 10 October **2016** Pages 754–763
http://sci-hub.cc/doi/10.1002/2016SW001411

On the Propagation of a Geoeffective Coronal Mass Ejection during March 15 -- 17, 2015
Yuming **Wang**, Quanhao Zhang, Jiajia Liu, Chenglong Shen, Fang Shen, Zicai Yang, T. Zic, B. Vrsnak, D. F. Webb, Rui Liu, S. Wang, Jie Zhang, Qiang Hu, Bin Zhuang
JGR **2016**
http://arxiv.org/pdf/1607.07750v1.pdf **File**

Overview of the 2015 St. Patrick's day storm and its consequences for RTK and PPP positioning in Norway
Knut Stanley **Jacobsen** and Yngvild Linnea Andalsvik
J. Space Weather Space Clim., 6, A9 (**2016**)
http://www.swsc-journal.org/articles/swsc/pdf/2016/01/swsc150065.pdf

Properties and Geoeffectiveness of Magnetic Clouds during Solar Cycles 23 and 24†
N. **Gopalswamy**, S. Yashiro1,2, H. Xie1,2, S. Akiyama1,2 and P. Mäkelä
JGR **2015**
http://arxiv.org/pdf/1510.00906v1.pdf

The Mild Space Weather in Solar Cycle 24
Nat **Gopalswamy**, Sachiko Akiyama, Seiji Yashiro, Hong Xie, Pertti Makela, Grzegorz Michalek
Proc. 14th International Ionospheric Effects Symposium on 'Bridging the gap between applications and research involving ionospheric and space weather disciplines' May 12-14, **2015**, Alexandria, VA
http://arxiv.org/ftp/arxiv/papers/1508/1508.01603.pdf

Plasma and Magnetic Field Characteristics of Solar Coronal Mass Ejections in Relation to Geomagnetic Storm Intensity and Variability
Ying D. **Liu**, Huidong Hu, Rui Wang, Zhongwei Yang, Bei Zhu, Yi A. Liu, Janet G. Luhmann, John D. Richardson
ApJL **2015**
http://arxiv.org/pdf/1508.01267v1.pdf

No Major Solar Flares but the Largest Geomagnetic Storm in the Present Solar Cycle
Y. **Kamide**, K. Kusano

Space Weather Volume 13, Issue 6 June **2015** Pages 365–367
http://onlinelibrary.wiley.com/doi/10.1002/2015SW001213/full

Pileup accident hypothesis of magnetic storm on 17 March 2015
Kataoka, Ryuho ; Shiota, Daikou ; Kilpua, Emilia ; Keika, Kunihiro
Geophysical Research Letters, Volume 42, Issue 13, pp. 5155-5161, **2015**
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1002/2015GL064816

17-18 Mar
Measurements and Simulations of the Geomagnetically Induced Currents in Low-latitude Power Networks During Geomagnetic Storms
J. J. **Zhang** , Y. Q. Yu , C. Wang, D. Du , D. Wei , L. G. Liu
Space Weather **Volume18, Issue8** e2020SW002549 **2020**
https://doi.org/10.1029/2020SW002549
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002549

17-20 Mar
Comparative Accuracies of Models for Drag Prediction During Geomagnetically Disturbed Periods: A First Principles Model Versus Empirical Models
R. L. **Walterscheid**, M. W. Chen, C.-C. Chao, S. Gegenheimer, J. Cabrera-Guzman, J. McVey
Space Weather e2022SW003332 Volume21, Issue5 **2023**
https://doi.org/10.1029/2022SW003332
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2022SW003332

18 March – Несколько C вспышек, без микроволн и без протонов

19-20 March

Coronal Mini-jets in an Activated Solar Tornado-like Prominence
Huadong **Chen**, Jun Zhang, Bart De Pontieu, Suli Ma, Bernhard Kliem, Eric Priest
ApJ **2020**
https://arxiv.org/pdf/2006.08252.pdf

Solar Tornadoes Triggered by Interaction between Filaments and EUV Jets
Huadong Chen1, Jun Zhang1, Suli Ma1,2, Xiaoli Yan3, and Jianchao Xue
2017 ApJL 841 L13
https://iopscience.iop.org/article/10.3847/2041-8213/aa71a2/pdf

20 March Затмение

Self-consistent propagation of flux ropes in realistic coronal simulations
L. **Linan**, F. Regnault, B. Perri, M. Brchnelova, B. Kuzma, A. Lani, S. Poedts, B. Schmieder
A&A **2023**
https://arxiv.org/pdf/2305.02089.pdf

COCONUT, a Novel Fast-converging MHD Model for Solar Corona Simulations. III. Impact of the Preprocessing of the Magnetic Map on the Modeling of the Solar Cycle Activity and Comparison with Observations
Błażej **Kuźma**1, Michaela Brchnelova1, Barbara Perri1, Tinatin Baratashvili1, Fan Zhang1, Andrea Lani1, and Stefaan Poedts1,2
2023 ApJ 942 31
https://iopscience.iop.org/article/10.3847/1538-4357/aca483/pdf

A Comparison of Global Magnetofrictional Simulations of the 2015 March 20 Solar Eclipse
Duncan H. **Mackay**1 and L. A. Upton2
2022 ApJ 939 9
https://iopscience.iop.org/article/10.3847/1538-4357/ac94c7/pdf

LOFAR imaging of the solar corona during the 2015 March 20 solar eclipse
A. M. **Ryan**, P. T. Gallagher, E. P. Carley, M. A. Brentjens, P. C. Murphy, C. Vocks, D. E. Morosan, H. Reid, J. Magdalenic, F. Breitling, P. Zucca, R. Fallows, G. Mann, A. Kerdraon, R. Halfwerk
A&A **2021**
https://arxiv.org/pdf/2102.05552.pdf

Magnetic Imaging of the Outer Solar Atmosphere (MImOSA): Unlocking the driver of the dynamics in the upper solar atmosphere **Review**
H. **Peter**, E. Alsina Ballester, V. Andretta, F. Auchere, L. Belluzzi, A. Bemporad, D. Berghmans, E. Buchlin, A. Calcines, L.P. Chitta, K. Dalmasse, T. del Pino Aleman, A. Feller, C. Froment, R. Harrison, M. Janvier, S. Matthews, S. Parenti, D. Przybylski, S.K. Solanki, J. Stepan, L. Teriaca, J. Trujillo Bueno
Experimental Astronomy (on 28. Jul. 2020). **2021**
Based on a proposal submitted in response to a call for white papers in the Voyage 2050 long-term plan in the ESA science programme.
https://arxiv.org/pdf/2101.01566.pdf

Solar survey at Pic du Midi: Calibrated data and improved images
Laurent **Koechlin**1, Luc Dettwiller2, Maurice Audejean3, Maël Valais1 and Arturo López Ariste1
A&A 631, A55 (**2019**)
sci-hub.se/10.1051/0004-6361/201732504

Chromospheric and Coronal Radio Sources from Observations of the Partial Solar Eclipse of March 20, 2015, at the Mountain Astronomical Station of the Central Astronomical Observatory
A. D. **Shramko** and S. A. Guseva
Geomagn. and Aeronomy 58 4 464-468 **2018**
Geomagnetizm i Aeronomiya, **2018**, Vol. 58, No. 4, pp. 479–483.
http://sci-hub.tw/https://link.springer.com/article/10.1134/S0016793218040163

Global Non-Potential Magnetic Models of the Solar Corona During the March 2015 Eclipse
A. R. **Yeates**, T. Amari, I. Contopoulos, X. Feng, D. H. Mackay, Z. Mikić, T. Wiegelmann, J. Hutton, C. A. Lowder, H. Morgan, G. Petrie, L. A. Rachmeler, L. A. Upton, A. Canou, P. Chopin, C. Downs, M. Druckmüller, J. A. Linker, D. B. Seaton, T. Török
Space Science Reviews **2018**
https://arxiv.org/pdf/1808.00785.pdf

First Empirical Determination of the Fe 10+ and Fe 13+ Freeze-in Distances in the Solar Corona
Benjamin **Boe**, Shadia Habbal, Miloslav Druckmuller, Enrico Landi, Ehsan Kourkchi, Adalbert Ding, Pavel Starha, Joseph Hutton
2018
https://arxiv.org/pdf/1805.03211.pdf

ХРОМОСФЕРНЫЕ И КОРОНАЛЬНЫЕ ИСТОЧНИКИ В РАДИОДИАПАЗОНЕ ПО ЧАСТНОМУ СОЛНЕЧНОМУ ЗАТМЕНИЮ 20.03.2015 НА ГАС ГАО РАН
Шрамко А.Д., Гусева С.А.
Пулково *«Солнечная и солнечно-земная физика – **2015**», с.387*
The analysis of the observant data of a partial solar eclipse from 3/20/2015 on the data from radio telescopes RT-2 (λ3.2 cm) and RT-3 (λ4.9 cm).

НАБЛЮДЕНИЯ СОЛНЕЧНОГО ЗАТМЕНИЯ 20.03.2015 г. НА ДВУХ РАДИОТЕЛЕСКОПАХ РТ-32 В ОБСЕРВАТОРИЯХ «СВЕТЛОЕ» И «ЗЕЛЕНЧУКСКАЯ» (предварительные результаты)
Рахимов И.А.1, Дьяков А.А.1, Ипатов А.В.1, Ильин Г.Н.1,
Коржавин А.Н.2, Петерова Н.Г.2, Топчило Н.А.
Пулково *«Солнечная и солнечно-земная физика – **2015**», с.313*

СПЕКТРАЛЬНО-ПОЛЯРИЗАЦИОННЫЕ НАБЛЮДЕНИЯ СОЛНЕЧНОГО ЗАТМЕНИЯ 20.03.2015 г. НА РАДИОТЕЛЕСКОПАХ РАТАН-600 И БПР (ДИНАМИКА И ХАРАКТЕРИСТИКИ АКТИВНЫХ ОБЛАСТЕЙ)
Курочкин Е.А.1, Богод В.М.1, Венгер А.П.1, Коржавин А.Н.1,
Петерова Н.Г.1, Стороженко А.А.1, Топчило Н.А.2, Шендрик А.В.1
Пулково *«Солнечная и солнечно-земная физика – **2015**», с.257*

First Detection of Prominence Material Embedded within a 2 × 106 K CME Front Streaming away at 100–1500 km s−1in the Solar Corona
Adalbert **Ding**1,2 and Shadia Rifai Habbal
2017 ApJL 842 L7
http://iopscience.iop.org.sci-hub.cc/2041-8205/842/1/L7/

Radial velocity observations of the 2015 Mar 20 eclipse - A benchmark Rossiter-McLaughlin curve with zero free parameters
Ansgar **Reiners**, Ulrike Lemke, Florian Bauer, Benjamin Beeck, Philipp Huke
A&A **2016**
http://arxiv.org/pdf/1609.00535v1.pdf

КОРОНА ВО ВРЕМЯ ПОЛНОГО СОЛНЕЧНОГО ЗАТМЕНИЯ 20 МАРТА 2015 Г.И РАЗВИТИЕ 24-ГО ЦИКЛА
ЯЗЕВ С.А.1,2, МОРДВИНОВ А.В.2, ДВОРКИНА-САМАРСКАЯ А.А.1
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том: 2Номер: 2 Год: **2016** Страницы: 3-11

21 March
Ubiquitous and Continuous Propagating Disturbances in the Solar Corona
Huw **Morgan** and Joseph Hutton
2018 ApJ 853 145
http://sci-hub.tw/http://iopscience.iop.org/0004-637X/853/2/145/

22 March
Photometric analysis of the corona during the 20 March 2015 total solar eclipse: density structures, hydrostatic temperatures and magnetic field inference
C. **Bazin**, J. Vilinga, R. Wittich, S. Koutchmy, J. Mouette, C. Nitschelm
Proceedings of the SF2A meeting, June **2015**
http://arxiv.org/pdf/1510.06436v1.pdf

23 March
A reexamination of a filament oscillation event on 2013 March 15
Jialin **Chen**, Wenbin Xie, Yuhao Zhou, Kai Yang, Yu Ouyang, P. F. Chen
Astrophysics and Space Science September **2017**, 362:165

24 March – For the 6th day in a row, a high-speed solar wind stream is buffeting Earth's magnetic field initiating intermittent geomagnetic storming under the influence of several CMEs and a high speed stream from CHs, including CH660

-- >08 UT: крупный западный CME (залимб?), Небольшие протоны

27 March

Solar survey at Pic du Midi: Calibrated data and improved images

Laurent **Koechlin**1, Luc Dettwiller2, Maurice Audejean3, Maël Valais1 and Arturo López Ariste1

A&A 631, A55 (**2019**)

sci-hub.se/10.1051/0004-6361/201732504

29 March - ~18 UT: крупный восточный CME

31 March – 1 Apr – **заметный кратковременный форбуш**; It was caused by a minor interplanetary shock wave that swept past Earth on March 31st; the shock wave's impact was weak and did not even spark a geomagnetic storm. Возмущение с сильным (~ 10 nT) северным Bz

3 April

Evidence for coherent spicule oscillations by correcting Hinode/SOT Ca II H in the southeast limb of the Sun

Alireza Ahangarzadeh **Maralani**, Ehsan Tavabi, Ali Ajabshirizadeh

Mon. Not. R. Astron. Soc. **2017**

https://arxiv.org/pdf/1702.01344.pdf

4 April - 22:00-23:00: SE **filament** of magnetism stretching halfway across the sun **erupted.** C3.8 (LDE) peaked 00:07, partial halo **CME**

6 April

Analysis of an Interplanetary Coronal Mass Ejection by a Spacecraft Radio Signal: A Case Study

G. Molera **Calvés**, E. Kallio, G. Cimo, J. Quick, D. A. Duev, T. Bocanegra Bahamón, M. Nickola, M. A. Kharinov, A. G. Mikhailov

Space Weather 16 November **2017** Vol: 15, Pages: 1523–1534

http://sci-hub.tw/10.1002/2017SW001701

8 Apr

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

9 Apr

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

9-10 April - A weak disturbance, probably related to a low speed stream from CH661, began early on 9 Apr.

A G2 **geomagnetic storm (Dst~-43)** took place on 10 April, **as the result of a CME observed leaving the Sun late on 06 April. Форбуш.**

11 April - **geomagnetic storm (Dst~-73)**

Observations of Solar Coronal Rain in Null Point Topologies
E. I. **Mason**1, Spiro K. Antiochos2, and Nicholeen M. Viall
2019 ApJL 874 L33
sci-hub.se/10.3847/2041-8213/ab0c5d

14 April - an unstable **filament** of magnetism rose up and erupted from the sun's eastern limb.

14-15 April - **geomagnetic storm** (Dst~-41 and 56 nT) from a co-rotating interaction region and an extension of the southern polar coronal hole. Solar wind speed at SOHO ranged between 309 and 695 km/s.

16 April

The frequency ratio and time delay of solar radio emissions with fundamental and harmonic components
Xingyao **Chen**, Eduard P. Kontar, Daniel L. Clarkson, Nicolina Chrysaphi
MNRAS 520, Issue 2, 3117–3126 **2023**
https://arxiv.org/pdf/2301.11299.pdf
https://doi.org/10.1093/mnras/stad325
https://academic.oup.com/mnras/article-pdf/520/2/3117/50319010/stad325.pdf
https://watermark.silverchair.com/stad325.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**

Sizes and shapes of sources in solar metric radio bursts
M. **Gordovskyy**, E.P. Kontar, D.L. Clarkson, N. Chrysaphi, P.K. Browning
ApJ **2021**
https://arxiv.org/pdf/2111.07777.pdf

Fine structures of solar radio bursts: origins and radio-wave propagation effects
Nicolina **Chrysaphi**
PhD **Thesis**, University of Glasgow, **2021**.
https://arxiv.org/pdf/2103.13745.pdf

Fine structure of type III solar radio bursts from Langmuir wave motion in turbulent plasma
Hamish A. S. **Reid**, Eduard P. Kontar
2021
https://arxiv.org/pdf/2103.08424.pdf

Detection of Energy Cutoffs in Flare-accelerated Electrons
Fanxiaoyu **Xia**1,2, Yang Su1,2, Wen Wang3, Linghua Wang3, Alexander Warmuth4, Weiqun Gan1,2, and Youping Li1,2
2021 ApJ 908 111
https://iopscience.iop.org/article/10.3847/1538-4357/abce5c/pdf

Observations of Solar Coronal Rain in Null Point Topologies
E. I. **Mason**1, Spiro K. Antiochos2, and Nicholeen M. Viall
2019 ApJL 874 L33
sci-hub.se/10.3847/2041-8213/ab0c5d

LOFAR observations of fine spectral structure dynamics in type IIIb radio bursts
I.N. **Sharykin**, E.P. Kontar, A.A. Kuznetsov
Solar Phys. **2018**
https://arxiv.org/pdf/1806.01046.pdf

The origin of the modulation of the radio emission from the solar corona by a fast magnetoacoustic wave
Dmitrii Y. **Kolotkov**,1 Valery M. Nakariakov,1, 2 and Eduard P. Kontar3
2018
https://warwick.ac.uk/fac/sci/physics/research/cfsa/people/kolotkov/eprints/lofar_fast_r1.pdf

Fine Structures of Solar Radio Type III Bursts and their Possible Relationship with Coronal Density Turbulence
Xingyao **Chen**, Eduard P. Kontar, Sijie Yu, Yihua Yan, Jing Huang, Baolin Tan
ApJ **2018**
https://arxiv.org/pdf/1801.07545.pdf

Imaging Spectroscopy of Solar Radio Burst Fine Structures
E. P. **Kontar**, S. Yu, A. A. Kuznetsov, A. G. Emslie, B. Alcock, N. L. S. Jeffrey, V. N. Melnik, N. H. Bian, P. Subramanian
2017
https://arxiv.org/pdf/1708.06505.pdf

17 April - An emerging flux region (EFR)

Temporal evolution of arch filaments as seen in He I 10 830 Å⋆
S. J. González **Manrique**1,2,3, C. Kuckein2, M. Collados4, C. Denker2, S. K. Solanki5,6, P. Gömöry1, M. Verma2, H. Balthasar2, A. Lagg5 and A. Diercke
A&A 617, A55 (**2018**)
http://sci-hub.tw/https://www.aanda.org/articles/aa/abs/2018/09/aa32684-18/aa32684-18.html
https://arxiv.org/pdf/1807.00728.pdf

Flows along arch filaments observed in the GRIS 'very fast spectroscopic mode'
S. J. González **Manrique**, C. Denker, C. Kuckein, A. Pastor Yabar, M. Collados, M. Verma, H. Balthasar, A. Diercke, C. E. Fischer, P. Gömöry, N. Bello González, R. Schlichenmaier, M. Cubas Armas, T. Berkefeld, A. Feller, S. Hoch, A. Hofmann, A. Lagg, H. Nicklas, D. Orozco Suárez, 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
Conference proceedings of the IAUS 327: "Fine Structure and Dynamics of the Solar Atmosphere" **2017**

Fitting peculiar spectral profiles in He I 10830 Å absorption features
S. J. González **Manrique**, C. Kuckein, A. Pastor Yabar, M. Collados C. Denker, C. E. Fischer, P. Gömöry, …
Astron. Nachr. as a part of special edition of the 12th Potsdam Thinkshop, **2016**
http://arxiv.org/pdf/1603.00679v1.pdf

18 April - a magnetic **filament** attached to sunspot group AR2321 **erupted**, producing a C5-class solar flare. **Сначала эруптировало удалённое NW волокно и вызвало указанную выше эрупцию.**

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

Forward Modeling of a Pseudostreamer

Nishu **Karna**1, Antonia Savcheva1, Kévin Dalmasse2, Sarah Gibson3, Svetlin Tassev1
2019 ApJ 883 74
https://doi.org/10.3847/1538-4357/ab3c50

19 Apr

Magnetofrictional Modeling of an Erupting Pseudostreamer
Nishu **Karna**1, Antonia Savcheva1,2, Sarah Gibson3, Svetlin Tassev1, Katharine K. Reeves1, Edward E. DeLuca1, and Kévin Dalmasse4
2021 ApJ 913 47
https://doi.org/10.3847/1538-4357/abf2b8

19-21 Apr

A Model for Flux Rope Formation and Disconnection in Pseudostreamer Coronal Mass Ejections
P. F. **Wyper**, B. J. Lynch, C. R. DeVore, P. Kumar, S. K. Antiochos, L. K. S. Daldorff
ApJ **2024**
https://arxiv.org/pdf/2409.08126

20 Apr

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

From Pseudostreamer Jets to CMEs: Observations of the Breakout Continuum
Pankaj **Kumar**, Judith T. Karpen, Spiro K. Antiochos, Peter F. Wyper, C. Richard DeVore, Benjamin J. Lynch
ApJ **2020**
https://arxiv.org/pdf/2011.07029.pdf **File**

21 Apr

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

Implications of Flat Optically Thick Microwave Spectra in Solar Flares for Source Size and Morphology
Shaheda Begum **Shaik**, Dale E. Gary
ApJ **2021**
https://arxiv.org/pdf/2107.00192.pdf

From Pseudostreamer Jets to CMEs: Observations of the Breakout Continuum
Pankaj **Kumar**, Judith T. Karpen, Spiro K. Antiochos, Peter F. Wyper, C. Richard DeVore, Benjamin J. Lynch
ApJ **2020**
https://arxiv.org/pdf/2011.07029.pdf **File**

Analysis of a Limb Eruptive Event
P. **Kotrˇc**,1 Yu. A. Kupryakov,1,2 M. Barta,1 L. K. Kashapova,3 and W. Liu1
Ground-based Solar Observations in the Space Instrumentation Era
ASP Conference Series, Vol. 504, p. 51, **2016**
http://aspbooks.org/publications/504/051.pdf

22 Apr

X-ray/Radio Quasi-periodic Pulsations Associated with Plasmoids in Solar Flare Current Sheets
Pankaj **Kumar**, Judith T. Karpen, Joel T. Dahlin
ApJ **2024**
https://arxiv.org/pdf/2412.05193

23 April

Comparison of damping models for kink oscillations of coronal loops
Yu **Zhong**,1 Dmitrii Y. Kolotkov , 1,2 Sihui Zhong 1 and Valery M. Nakariakov
Monthly Notices of the Royal Astronomical Society, Volume 525, Issue 4, 2023, Pages 5033–5040,
https://doi.org/10.1093/mnras/stad2598
https://watermark.silverchair.com/stad2598.pdf
https://warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/zhong_y_23.pdf

OSCILLATION OF CURRENT SHEETS IN THE WAKE OF A FLUX ROPE ERUPTION OBSERVED BY THE SOLAR DYNAMICS OBSERVATORY
L. P. **Li**1, J. Zhang1, J. T. Su1, and Y. Liu
2016 ApJ 829 L33

23-… April – слабые протоны

26 Apr
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

27 Apr
Sizes and shapes of sources in solar metric radio bursts
M. **Gordovskyy**, E.P. Kontar, D.L. Clarkson, N. Chrysaphi, P.K. Browning
ApJ **2021**
https://arxiv.org/pdf/2111.07777.pdf

28 April – ~>10 UT эрупция большого NE волокна, CME

Oscillations and mass-draining that lead to a sympathetic eruption of a quiescent filament
Jun **Dai**, Qingmin Zhang, Yanjie Zhang, Zhe Xu, Yingna Su, Haisheng Ji
ApJ **2021**
https://arxiv.org/pdf/2110.04695.pdf

Spectral evolution of an eruptive polar crown prominence with IRIS observations
Jianchao **Xue**, Hui Li, Yang Su
Frontiers in Physics **2021**
https://arxiv.org/pdf/2109.02908.pdf

Imaging evidence for solar wind outflows originating from a CME footpoint
Juraj **Lörinčík**, Jaroslav Dudík, Guillaume Aulanier, Brigitte Schmieder, Leon Golub
2020 ApJ
https://arxiv.org/pdf/2010.04250.pdf

28-29 April
Observations of Solar Coronal Rain in Null Point Topologies
E. I. **Mason**1, Spiro K. Antiochos2, and Nicholeen M. Viall
2019 ApJL 874 L33

sci-hub.se/10.3847/2041-8213/ab0c5d

29 Apr

Small-scale solar surface magnetism
Robert J. **Rutten**
Brief review in monograph "Solar Magnetic Variability and Climate" by C. de Jager, S. Duhau, A.C.T. Nieuwenhuizen, 2020, Stip Media, Alkmaar **2021**
https://arxiv.org/pdf/2105.14533.pdf

Microflare Heating of a Solar Active Region Observed with NuSTAR, Hinode/XRT, and SDO/AIA
Paul J. **Wright**, Iain G. Hannah, Brian W. Grefenstette, Lindsay Glesener, Säm Krucker, Hugh S. Hudson, David M. Smith, Andrew J. Marsh, Stephen M. White, Matej Kuhar
ApJ **2017**
https://arxiv.org/pdf/1706.06108.pdf

The First Focused Hard X-ray Images of the Sun with NuSTAR
Brian W. **Grefenstette**, Lindsay Glesener, Säm 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
ApJ **2016**
http://arxiv.org/pdf/1605.09738v1.pdf

1 May

Failed Solar Eruption of A Multi-thermal Flux Rope
Leping **Li**, Hongqiang Song, Hardi Peter, Lakshmi Pradeep Chitta
ApJL **2022**
https://arxiv.org/pdf/2211.11148.pdf

Unveiling the magnetic nature of chromospheric vortices
Mariarita **Murabito**, Juie Shetye, Marco Stangalini, Erwin Verwichte, Tony Arber, Ilaria Ermolli, Fabrizio Giorgi, Tom Goffrey
A&A **2020**
https://arxiv.org/pdf/2006.13776.pdf

2 May - >~15 UT: **эрупция протяжённого SE-центрального волокна**
An extensive filament eruption was observed in the southern hemisphere across the central meridian and probably over the southeast limb. The filament became unstable after 15h UT and erupted shortly before 19h UT. **A partial halo CME** was observed late in the day and early on May 3.

3 May
Large-amplitude longitudinal oscillations in a solar filament
Q. M. **Zhang**, T. Li, R. S. Zheng, Y. N. Su, H. S. Ji
ApJ **2017**
https://arxiv.org/pdf/1705.04820.pdf

4 May

Heating at the remote footpoints as a brake on jet flows along loops in the solar atmosphere
Zhenghua **Huang**, Qingmin Zhang, Lidong Xia, Bo Li, Zhao Wu, Hui Fu
ApJ **2020**

https://arxiv.org/pdf/2007.04132.pdf

Observations of Solar Coronal Rain in Null Point Topologies
E. I. **Mason**1, Spiro K. Antiochos2, and Nicholeen M. Viall
2019 ApJL 874 L33
sci-hub.se/10.3847/2041-8213/ab0c5d

5 May – 22:11: **импульсная X2.7 ГАММА вспышка**, NE прилимб, S15~2900, II(2), V, узкий CME
- Примерно в это же время небольшая эрупция южно-центрального волокна

Limb Observations of Global Solar Coronal EUV Wavefronts: the Inclination, Kinematics, Coupling with the Expanding CMEs, and Connection with the CME-driven Shocks
Huidong **Hu** (1), Bei Zhu (2), Ying D. Liu (1), Chong Chen (3), Rui Wang (1), Xiaowei Zhao (4)
ApJ **2024**
https://arxiv.org/pdf/2409.15017

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**

Quasi-Periodic Pulsations in Solar and Stellar Flares: A Review of Underpinning Physical Mechanisms and Their Predicted Observational Signatures
I. V. **Zimovets**, J. A. McLaughlin, A. K. Srivastava, D. Y. Kolotkov, A. A. Kuznetsov, E. G. Kupriyanova, I.-H. Cho, A. R. Inglis, F. Reale, D. J. Pascoe, H. Tian, D. Yuan, D. Li & Q. M. Zhang
Space Science Reviews volume 217, Article number: 66 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11214-021-00840-9.pdf
https://doi.org/10.1007/s11214-021-00840-9

Implications of Flat Optically Thick Microwave Spectra in Solar Flares for Source Size and Morphology
Shaheda Begum **Shaik**, Dale E. Gary
ApJ **2021**
https://arxiv.org/pdf/2107.00192.pdf

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

Chromospheric condensations and magnetic field in a C3.6-class flare studied via He I D3 spectro-polarimetry
Tine **Libbrecht**, Jaime de la Cruz Rodriguez, Sanja Danilovic, Jorrit Leenaarts, Hiva Pazira
A&A **2018**
https://arxiv.org/pdf/1806.06880.pdf

Statistical Studies of Solar White-Light Flares and Comparisons with Superflares on Solar-type Stars
Kosuke **Namekata**, Takahito Sakaue, Kyoko Watanabe, Ayumi Asai, Hiroyuki Maehara, Yuta Notsu,Shota Notsu, Satoshi Honda, Takako Ishii, Kai Ikuta, Daisaku Nogami, Kazunari Shibata
ApJ **2017**
https://arxiv.org/pdf/1710.11325.pdf

Differences between Doppler velocities of ions and neutral atoms in a solar prominence
Tetsu **Anan**, Kiyoshi Ichimoto, Andrew. Hillier
A&A **2017**
https://arxiv.org/pdf/1703.02132.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

Intense Flare-CME Event of the Year 2015: Propagation and Interaction Effects between Sun and Earth's Orbit
Abhishek **Johri**, P.K. Manoharan
Solar Phys. **2016**
http://arxiv.org/pdf/1603.04555v1.pdf

EOVSA (Expanded Owens Valley Solar Array) Coverage of a Recent Gamma-ray Flare
Dale **Gary** and Gregory Fleishman.
RHESSI Science Nugget No. 252, May **2015**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/EOVSA_Coverage_of_a_Recent_Gamma-Ray_Flare

5-11 May
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**

6 May - ~00:30: приход УВ от эрупции 2 мая, заметный форбуш при слабой бурьке, Bz~+10 nT в хвосте ICME

Sizes and shapes of sources in solar metric radio bursts
M. **Gordovskyy**, E.P. Kontar, D.L. Clarkson, N. Chrysaphi, P.K. Browning
ApJ **2021**
https://arxiv.org/pdf/2111.07777.pdf

On the Source Position and Duration of a Solar Type III Radio Burst Observed by LOFAR
PeiJin **Zhang**, SiJie Yu, Eduard Kontar, ChuanBing Wang
ApJ **2019**
https://arxiv.org/pdf/1909.08773.pdf

Detection of spatially structured scattering polarization of Sr I 4607.3 Åwith the Fast Solar Polarimeter
Franziska **Zeuner**, Alex Feller, Francisco A. Iglesias, Sami K. Solanki
A&A **2018**
https://arxiv.org/pdf/1808.06539.pdf

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

Imaging Spectroscopy of Type U and J Solar Radio Bursts with LOFAR
Hamish A. S. **Reid**, Eduard P. Kontar
A&A **2017**
https://arxiv.org/pdf/1706.07410.pdf

6-8 May

An Extended Study of the Precursory Signs of Forbush Decreases: New Findings over the Years 2008 – 2016
D. **Lingri**, H. Mavromichalaki, A. Belov, M. Abunina, E. Eroshenko, A. Abunin
Solar Physics June **2019**, 294:70
sci-hub.se/10.1007/s11207-019-1461-3

7 May

The frequency ratio and time delay of solar radio emissions with fundamental and harmonic components

Xingyao **Chen**, Eduard P. Kontar, Daniel L. Clarkson, Nicolina Chrysaphi
MNRAS 520, Issue 2, 3117–3126 **2023**
https://arxiv.org/pdf/2301.11299.pdf
https://doi.org/10.1093/mnras/stad325
https://academic.oup.com/mnras/article-pdf/520/2/3117/50319010/stad325.pdf
https://watermark.silverchair.com/stad325.pdf

An Extreme Ultraviolet Wave Associated with A Solar Filament Activation
Ruisheng **Zheng**, Yao Chen, Bing Wang, Hongqiang Song
ApJ **2020**
https://arxiv.org/pdf/2004.04904.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

8 May

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

Acceleration of Energetic Ions in Corotating Interaction Region near 1.5 au: Evidence from MAVEN.
Thampi, S. V., Krishnaprasad, C., Shreedevi, P. R., Pant, T. K., & Bhardwaj, A.
(**2019**). The Astrophysical Journal, 880(1), L3.
sci-hub.se/10.3847/2041-8213/ab2b43

Динамика нагрева плазмы и энергетических распределений ускоренных электронов во время солнечных вспышек по данным рентгеновского и ультрафиолетового излучения
Моторина Г.Г.
Диссертация. ГАО. **2017**
http://www.gaoran.ru/russian/diss/Motorina_diss.pdf
https://arxiv.org/ftp/arxiv/papers/1710/1710.10652.pdf

ВРЕМЕННАЯ ЭВОЛЮЦИЯ ЭНЕРГЕТИЧЕСКОГО РАСПРЕДЕЛЕНИЯ ЭЛЕКТРОНОВ В СОЛНЕЧНЫХ ВСПЫШКАХ НА ОСНОВЕ RHESSI И SDO/AIA НАБЛЮДЕНИЙ
Моторина Г.Г.1,2, Контарь Э.П.
Пулково *«Солнечная и солнечно-земная физика – **2015**», с.289*

9 May

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

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

Localized Microwave and EUV Bright Structures in an Eruptive Prominence
Jing **Huang**1, Baolin Tan1, Satoshi Masuda2, Xin Cheng3, Susanta Kumar Bisoi1, and Victor Melnikov1
2019 ApJ 874 176
sci-hub.se/10.3847/1538-4357/ab0e80

Prominence eruption initiated by helical kink-instability of an embedded flux rope
P. **Vemareddy**, N. Gopalswamy, B. Ravindra
ApJ **2017**
https://arxiv.org/pdf/1709.10035.pdf

11 May
The Temperature - Magnetic Field Relation in Observed and Simulated Sunspots
Michal **Sobotka**, Reza Rezaei
Solar Phys. **2017**
https://arxiv.org/pdf/1711.09821.pdf

12 May - ~03 UT: **быстрое SEP (J10~6 pfu)от SW** эрупции залимбового волокна; вспышка C2.5, CME

15-16 May - The most impressive was an eruptive prominence (EPL) from the NE limb and a connected highly active and partially eruptive filament from the NE quadrant. The EPL (N42E90) erupted at approximately 23:22 UTC on May 15.

18 May
Observations of the chromospheric Evershed flow of sunspot penumbra
Paolo **Romano**, Francesco Schillirò, Mariachiara Falco
2023
https://arxiv.org/pdf/2309.11186.pdf

19-20 May
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

20 May

Observation of a 3D magnetic null point
P. **Romano**, M. Falco, S. L. Guglielmino, M. Murabito
ApJ **2017**
https://arxiv.org/pdf/1703.00665.pdf

20-21 May

Evolution Of Downflows In The Transition Region Above A Sunspot Over Short Time-Scales
C. J. **Nelson**, S. Krishna Prasad, M. Mathioudakis
A&A **2020**
https://arxiv.org/pdf/2006.13617.pdf

21 May - A partial NE halo CME was observed late on May 21 and early on May 22. Backsided**?**
A filament eruption in the central northern hemisphere starting near 20h UT may have been the source**?**

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

21-23 May

Long-period oscillations in the lower solar atmosphere prior to flare events
A. **Wiśniewska**1, M. B. Korsós2,3,5, I. Kontogiannis1, Sz. Soós3,5 and R. Erdélyi4,3,5
A&A, 686, A224 (**2024**)
https://www.aanda.org/articles/aa/pdf/2024/06/aa48606-23.pdf

May 21-June 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

23 May

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

Frequency Distribution of Acoustic Oscillation in the Solar Atmosphere During Flare Event
A. **Wiśniewska**1,2, E. Chmielewska3, K. Radziszewski3, M. Roth2, and J. Staiger2
2019 ApJ 886 32
https://doi.org/10.3847/1538-4357/ab487c
https://arxiv.org/ftp/arxiv/papers/2203/2203.02420.pdf

Multiwavelength Observations of a Flux Rope Formation by Series of Magnetic Reconnection in the Chromosphere
Pankaj **Kumar**, Vasyl Yurchyshyn, Kyung-Suk Cho, Haimin Wang
A&A **2017**

24 May

Spectropolarimetric observations of an arch filament system with the GREGOR solar telescope
H. **Balthasar**, P. Gömöry, S.J. González Manrique,
Proceedings 12th Potsdam Thinkshop to appear in Astronomische Nachrichten **2016**
http://arxiv.org/pdf/1609.01514v1.pdf

25-29 May

Ultra Low-Frequency Oscillations of a Solar Filament in Hα Revealed With the Data of the Global Oscillation Network Group (Gong)
V.I.**Efremov**, L.D.Parfinenko, A.A.Soloviev
2016
http://arxiv.org/pdf/1602.03137v1.pdf

УЛЬТРАНИЗКОЧАСТОТНЫЕ КОЛЕБАНИЯ СОЛНЕЧНЫХ ВОЛОКОН В Hα ПО ДАННЫМ GLOBAL OSCILLATION NETWORK GROUP (GONG)
Ефремов В.И., Парфиненко Л.Д., Соловьев А.А.
Пулково *«Солнечная и солнечно-земная физика – **2015**», с. 133*

June-Nov 2015

Fractal dimensions of umbral and penumbral regions of sunspots
B. **Rajkumar** (1), S. Haque (1), W. Hrudey (2)
Solar Phys. **2017**
https://arxiv.org/ftp/arxiv/papers/1709/1709.08042.pdf

3 June

Three-dimensional magnetic field structure of a flux emerging region in the solar atmosphere
Rahul **Yadav**, J. de la Cruz Rodríguez, C. J. Díaz Baso, Avijeet Prasad, Tine Libbrecht, Carolina Robustini, A. Asensio Ramos
A&A **2019**
https://arxiv.org/pdf/1910.13279.pdf

4 Jun

Statistical Evidence for Small-Scale Interchange Reconnection at a Coronal Hole Boundary
Emily I. **Mason**, Vadim M. Uritsky
ApJ **2022**
https://arxiv.org/pdf/2209.02833.pdf

5 Jun

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

5-17 June

Acceleration of Energetic Ions in Corotating Interaction Region near 1.5 au: Evidence from MAVEN.
Thampi, S. V., Krishnaprasad, C., Shreedevi, P. R., Pant, T. K., & Bhardwaj, A.
(**2019**). The Astrophysical Journal, 880(1), L3.
sci-hub.se/10.3847/2041-8213/ab2b43
sci-hub.se/10.3847/2041-8213/ab2b43

7 June

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

An Anisotropic Cosmic-Ray Enhancement Event on 07-June-2015: A Possible Origin
Agnieszka **Gil**, Gennady A. Kovaltsov, Vladimir V. Mikhailov, Alexander Mishev, Stepan Poluianov, Ilya G. Usoskin
Solar Physics November **2018**, 293:154
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1375-5.pdf
sci-hub.tw/10.1007/s11207-018-1375-5

12 June

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

Observing Kelvin-Helmholtz instability in solar blowout jet
Xiaohong **Li**, Jun Zhang, Shuhong Yang, Yijun Hou, Robert Erdelyi
Scientific Reports **2018**
https://www.nature.com/articles/s41598-018-26581-4.pdf

14 June
Physical Characteristics of Umbral Dots Derived from a High-Resolution Observations
Ali **Kilcik**, Volkan Sarp, Vasyl Yurchyshyn, Jean-Pierre Rozelot & Atila Ozguc
Solar Physics volume 295, Article number: 58 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01618-y.pdf

15 June

A Comparative Study of Solar Active Region 12371 with Data-constrained and Data-driven MHD Simulations
Satoshi **Inoue**, Keiji Hayashi, Takahiro Miyoshi, Ju Jing, Haimin Wang
ApJL **2023**
https://arxiv.org/pdf/2301.12336.pdf

Exploring mutual information between IRIS spectral lines. II. Calculating the most probable response in all spectral windows
Brandon **Panos**, Lucia Kleint
2021
https://arxiv.org/pdf/2106.03463.pdf

Exploring mutual information between IRIS spectral lines. II. Calculating the most probable response in all spectral windows
Brandon **Panos**, Lucia Kleint
2021
https://arxiv.org/pdf/2106.03463.pdf

16 June

Magnetic Coupling of the Solar Hemispheres During the Solar Cycle
V. N. **Obridko**, V. G. Fainshtein, Y. S. Zagainova & G. V. Rudenko
Solar Physics volume 295, Article number: 149 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01716-x.pdf

A Fractal Analysis of Magnetograms within Active Regions
Brandon **Rajkumar**, Shirin Haque
2019
https://arxiv.org/ftp/arxiv/papers/1911/1911.03675.pdf

The Observational Evidence for the Internal Excitation of Sunspot Oscillations Inferred from the Fe I 5435 A Line
Kyuhyoun **Cho**, Jongchul Chae, Eun-kyung Lim, Heesu Yang
ApJ **2019**
https://arxiv.org/pdf/1906.01971.pdf

18 June - >02 UT: **Мягкие протоны J10~12 pfu**, видимо, от эрупции (за)лимбового SW волокна;
– AR 12371 produced a **long duration M3 Flare** around 17 UT. S5~2300 sfu. **Full halo CME**.
Statistical Study of the Kinetic Features of Supra-arcade Downflows Detected from Multiple Solar Flares
Xiaoyan **Xie**1,2,3, Katharine K. Reeves2, Chengcai Shen2, and Joshua D. Ingram4,2
2022 ApJ 933 15
https://iopscience.iop.org/article/10.3847/1538-4357/ac695d/pdf

Thermodynamic Evolution of Solar Flare Supra-arcade Downflows
Z. F. **Li**1,2, X. Cheng1,2,3, M. D. Ding1,2, Katharine K. Reeves4, DeOndre Kittrell4,5, Mark Weber4, and David E. McKenzie6
2021 ApJ 915 124
https://arxiv.org/pdf/2107.09215.pdf
https://doi.org/10.3847/1538-4357/ac043e

A Longitudinally Asymmetrical Kink Oscillation of Coronal Loop Caused by a Diagonally Placed Flare below the Loop System
Hongbo **Li**1, Hengqiang Feng1,2, Yu Liu3, Zhanjun Tian1, Jin Huang3,4, and Yuhu Miao
2019 ApJ 881 111
sci-hub.se/10.3847/1538-4357/ab2bf7

The evolution of coronal mass ejections in the inner heliosphere: Implementing the spheromak model with EUHFORIA
C. **Verbeke**, J. Pomoell and S. Poedts
A&A 627, A111 (**2019**)
sci-hub.se/10.1051/0004-6361/201834702

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

Fundamental and Harmonic Oscillations in Neighboring Coronal Loops
Hongbo **Li**1,2,3, Yu Liu1,2, and Kuan Vai Tam
2017 ApJ 842 99
http://iopscience.iop.org.sci-hub.cc/0004-637X/842/2/99/

– – – – – – – – – – – – –

18-25 June

SWASTi-CME: A physics-based model to study CME evolution and its interaction with Solar Wind
Prateek **Mayank**, Bhargav Vaidya, Wageesh Mishra, D. Chakrabarty
ApJS **2023**
https://arxiv.org/pdf/2310.18219.pdf

Operational solar flare forecasting via video-based deep learning
Sabrina **Guastavino**, Francesco Marchetti, Federico Benvenuto, Cristina Campi, and Michele Piana
Front. Astron. Space Sci. 9:1039805. **2023** doi: 10.3389/fspas.2022.1039805
https://www.frontiersin.org/articles/10.3389/fspas.2022.1039805/pdf
https://www.frontiersin.org/articles/10.3389/fspas.2022.1039805/full

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

A Weak Fermi Gamma-ray Event Associated with a Halo CME and a Type II Radio Burst
N. Gopalswamy, P. Mäkelä, S. Yashiro
Proceedings URSI GASS 2020 **2021**
https://arxiv.org/ftp/arxiv/papers/2105/2105.01212.pdf

Restoring process of sunspot penumbra
P. **Romano**, M. Murabito, S. L. Guglielmino, F. Zuccarello, M. Falco
ApJ **2020**
https://arxiv.org/pdf/2006.09746.pdf

The evolution of coronal mass ejections in the inner heliosphere: Implementing the spheromak model with EUHFORIA
C. **Verbeke**, J. Pomoell and S. Poedts
A&A 627, A111 (**2019**)
sci-hub.se/10.1051/0004-6361/201834702

Unusual Cosmic Ray Variations During the Forbush Decreases of June 2015
E. **Samara**, A. Smponias, I. Lytrosyngounis, D. Lingri, H. Mavromichalaki, C. Sgouropoulos
Solar Physics April **2018**, 293:67
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1290-9.pdf

Study of Three-Dimensional Magnetic Structure and the Successive Eruptive Nature of Active Region 12371
P. **Vemareddy**, P. Demóulin
ApJ **2018**
https://arxiv.org/pdf/1803.04728.pdf

ОСОБЕННОСТИ ПОТОКОВ СОЛНЕЧНОГО ВЕТРА В ПЕРИОД 21-28 ИЮНЯ 2015 Г. КАК РЕЗУЛЬТАТ ВЗАИМОДЕЙСТВИЯ КОРОНАЛЬНЫХ ВЫБРОСОВ МАССЫ И РЕКУРРЕНТНЫХ ПОТОКОВ ИЗ КОРОНАЛЬНЫХ ДЫР

ШУГАЙ Ю.С.1, СЛЕМЗИН В.А.2, РОДЬКИН Д.Г.2

Косм. Исслед. Том: 55Номер: 6 Год: **2017** Страницы: 399-406

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

Interplanetary Consequences of Coronal Mass Ejection Events occurred during 18--25 June 2015
P.K. **Manoharan**, D. Maia, A. Johri, M.S. Induja
ASP Conference Series **2016**
http://arxiv.org/pdf/1603.03562v1.pdf
– – – – – – – – – – – – – – –

EUHFORIA: European heliospheric forecasting information asset
Jens **Pomoell**1* and S. Poedts2
J. Space Weather Space Clim. **2018**, 8, A35
https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170062.pdf

The 2015 Summer Solstice Storm: one of the major geomagnetic storms of solar cycle 24 observed at ground level
C. R. A. **Augusto**, C. E. Navia, M. N. de Oliveira, A. A. Nepomuceno, J. P. Raulin, E. Tueros, R. R. de Mendonça, A. C. Fauth, H. Vieira de Souza, V. Kopenkin, T. Sinzi
Solar Phys. 2018
https://arxiv.org/pdf/1805.05277.pdf

Unusual Cosmic Ray Variations During the Forbush Decreases of June 2015
E. **Samara**, A. Smponias, I. Lytrosyngounis, D. Lingri, H. Mavromichalaki, C. Sgouropoulos
Solar Physics April **2018**, 293:67
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1290-9.pdf

Study of Three-Dimensional Magnetic Structure and the Successive Eruptive Nature of Active Region 12371
P. **Vemareddy**, P. Demóulin
ApJ **2018**
https://arxiv.org/pdf/1803.04728.pdf

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

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

Interplanetary Consequences of Coronal Mass Ejection Events occurred during 18--25 June 2015
P.K. **Manoharan**, D. Maia, A. Johri, M.S. Induja
ASP Conference Series **2016**
http://arxiv.org/pdf/1603.03562v1.pdf

18 Jun -3 Jul

Solar Energetic Particle Events Detected in the Housekeeping Data of the European Space Agency's Spacecraft Flotilla in the Solar System
Beatriz **Sánchez-Cano**, Olivier Witasse, Elise W. Knutsen, Dikshita Meggi, +++
Space Weather Volume21, Issue8 August **2023** e2023SW003540

https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2023SW003540

19 June: ~05 UT: A **partial halo CME** caused by **a large filament eruption** in the suthern hemisphere could reach Earth on June 22.

The evolution of coronal mass ejections in the inner heliosphere: Implementing the spheromak model with EUHFORIA
C. **Verbeke**, J. Pomoell and S. Poedts
A&A 627, A111 (**2019**)
sci-hub.se/10.1051/0004-6361/201834702

19-27 Jun

Magnetic evolution of active regions: formation and eruption of magnetic flux ropes
Review
P. **Vemareddy**
IAU 388 proc. **2024**
https://arxiv.org/pdf/2410.02670

Wavelet Analysis of Forbush Decreases at High-Latitude Stations During Geomagnetic Disturbances
Roshan Kumar **Mishra**, Ashok Silwal, Rabin Baral, Binod Adhikari, Carlos Roberto Braga, Sujan Prasad Gautam, Priyanka Kumari Das & Yenca Migoya-Orue
Solar Physics volume 297, Article number: 26 (**2022**)
https://link.springer.com/content/pdf/10.1007/s11207-022-01948-z.pdf

20 June

Sizes and shapes of sources in solar metric radio bursts
M. **Gordovskyy**, E.P. Kontar, D.L. Clarkson, N. Chrysaphi, P.K. Browning
ApJ **2021**
https://arxiv.org/pdf/2111.07777.pdf

Frequency–Distance Structure of Solar Radio Sources Observed by LOFAR
Mykola **Gordovskyy**1, Eduard Kontar2, Philippa Browning1, and Alexey Kuznetsov
2019 ApJ 873 48
https://iopscience.iop.org/article/10.3847/1538-4357/ab03d8/pdf

Decimetric emission 500" away from a flaring Site: Possible scenarios from GMRT solar radio observations
Susanta Kumar **Bisoi**, H. S. Sawant, P. Janardhan, Y. Yan, L. Chen, Arun Kumar Awasthi, Shweta Srivastava, G. Gao
ApJ **2018**
https://arxiv.org/pdf/1806.05802.pdf

Extending Counter-Streaming Motion from an Active Region Filament to Sunspot Light Bridge
Haimin **Wang**, Rui Liu, Qin Li, Chang Liu, Na Deng, Yan Xu, Ju Jing, Yuming Wang, Wenda Cao
ApJL **2017**
https://arxiv.org/pdf/1712.06783.pdf

Observations of a CME-related type IV burst with LOFAR
Alexey **Kuznetsov**∗† and Eduard Kontar1
CESRA Abstract **2016**
http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v1.pdf

The Fastest Flare
Hugh **Hudson** and Paulo Simões
RHESSI Science Nuggets, #256, June **2015**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/The_Fastest_Flare

20-22 June
Dark structures in sunspot light bridges
Jingwen **Zhang**, Hui Tian, Sami K. Solanki, Haimin Wang, Hardi Peter, Kwangsu Ahn, Yan Xu, Yingjie Zhu, Wenda Cao, Jiansen He, Linghua Wang
2018
https://arxiv.org/pdf/1809.00146.pdf

20-23 June

Study of Evolution and Geo-effectiveness of Coronal Mass Ejection–Coronal Mass Ejection Interactions Using Magnetohydrodynamic Simulations with SWASTi Framework
Prateek **Mayank**1, Stefan Lotz2, Bhargav Vaidya1,3, Wageesh Mishra4, and D. Chakrabarty5
2024 ApJ 976 126
https://iopscience.iop.org/article/10.3847/1538-4357/ad8084/pdf

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

21 June – 01:42, 02:36: **M2/1N, M2.6 двойная LDE вспышка**, **Prolonged gamma**, N12E13, S9~1500,02:24-02:47 II тип, **срыв шумовой бури**, значительная **эрупция, гало CME** will likely reach Earth on June 23
- **Мягкие протоны: сначала J10~2.5, потом (22-ого) J10~100 pfu и J10~1000 pfu**
- 09:44: **M3.8/2B** квазиимпульсная западная вспышка, S21W57, S5-9~130 **Gamma-rays**

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

SWASTi-CME: A physics-based model to study CME evolution and its interaction with Solar Wind
Prateek **Mayank**, Bhargav Vaidya, Wageesh Mishra, D. Chakrabarty
ApJS **2023**
https://arxiv.org/pdf/2310.18219.pdf

Clusters of Solar Radio Spikes Modulated by Quasi-Periodic Pulsations in a Confined Flare
Huang, Jing ; Tan, Chengming ; Chen, Xingyao ; Tan, Baolin ; Yan, Yihua ; Zhang, Yin ; Ma, Suli ; Zhou, Zhichao ; Zhang, Minghui ; Wang, Wei ; Chen, Linjie
Universe, vol. 8, issue 7, p. 348, **2022**
https://www.mdpi.com/2218-1997/8/7/348/pdf?version=1656060155

ПОВЫШЕННАЯ ЯРКОСТЬ МИКРОВОЛНОВОГО ИЗЛУЧЕНИЯ КАК ПРИЗНАК ВСПЫШЕЧНО-ПРОДУКТИВНЫХ АКТИВНЫХ ОБЛАСТЕЙ ПО НАБЛЮДЕНИЯМ АКТИВНОЙ ОБЛАСТИ NOAA 12 371
Петерова Н.Г., Топчило Н.А., Курочкин Е.А.
ГиА Том: 62Номер: 1 Год: 2022 Страницы: 28-39

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

Implications of Flat Optically Thick Microwave Spectra in Solar Flares for Source Size and Morphology
Shaheda Begum **Shaik**, Dale E. Gary
ApJ **2021**
https://arxiv.org/pdf/2107.00192.pdf

Flux Rope Formation by a Confined Solar Flare Preceding a Coronal Mass Ejection
Bernhard **Kliem**, Jeongwoo Lee, Stephen M. White, Chang Liu, Satoshi Masuda
ApJ **2021**
https://arxiv.org/pdf/2101.02181.pdf

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

ICME Evolution in the Inner Heliosphere **Invited Review**
J. G. **Luhmann**, N. Gopalswamy, L. K. Jian & N. Lugaz
Solar Physics volume 295, Article number: 61 (**2020**) **File**
https://link.springer.com/content/pdf/10.1007%2Fs11207-020-01624-0.pdf

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

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

The evolution of coronal mass ejections in the inner heliosphere: Implementing the spheromak model with EUHFORIA
C. **Verbeke**, J. Pomoell and S. Poedts
A&A 627, A111 (**2019**)
sci-hub.se/10.1051/0004-6361/201834702

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

Current State of Reduced Solar Activity: Intense Space Weather Events in the Inner Heliosphere
P.K. **Manoharan**, K. Mahalakshmi, A. Johri, B.V. Jackson, D. Ravikumar,
K. Kalyanasundaram, S.P. Subramanian, A. K. Mittal
SUN and GEOSPHERE Vol.13, No.2 – **2018**, 135-144
http://newserver.stil.bas.bg/SUNGEO//00SGArhiv/SG_v13_No2_2018-pp-135-143.pdf

Impacts of EUV Wavefronts on Coronal Structures in Homologous Coronal Mass Ejections

Rui **Liu**, Yuming Wang, Jeongwoo Lee, Chenglong Shen
ApJ **2018**
https://arxiv.org/pdf/1811.01326.pdf

EUHFORIA: European heliospheric forecasting information asset
Jens **Pomoell**1* and S. Poedts2
J. Space Weather Space Clim. **2018**, 8, A35
https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170062.pdf

Magnetic Structure of a Composite Solar Microwave Burst
Jeongwoo **Lee**1,2, Stephen M. White3, Chang Liu1, Bernhard Kliem2,4, and Satoshi Masuda
2018 ApJ 856 70
https://iopscience.iop.org/article/10.3847/1538-4357/aaadbc/pdf
http://sci-hub.tw/http://iopscience.iop.org/0004-637X/856/1/70/

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

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

Sun-to-Earth Propagation of the 2015 June 21 Coronal Mass Ejection Revealed by Optical, EUV, and Radio Observations
N. **Gopalswamy**, P. Makela, S. Akiyama, S. Yashiro, H. Xie, N. Thakur
JASTP 179, p. 225-238. **2018**
https://arxiv.org/ftp/arxiv/papers/1807/1807.10979.pdf

A Major Geoeffective CME from NOAA 12371: Initiation, CME–CME Interactions, and Interplanetary Consequences
Bhuwan **Joshi**, M. Syed Ibrahim, A. Shanmugaraju, D. Chakrabarty
Solar Physics July **2018**, 293:107
http://sci-hub.tw/http://link.springer.com/10.1007/s11207-018-1325-2

Thermal and Nonthermal Emissions of a Composite Flare Derived from NoRH and SDO Observations
Jeongwoo **Lee**1,2, Stephen M. White3, Ju Jing4, Chang Liu4, Satoshi Masuda2, andJongchul Chae1
2017 ApJ 850 124

Observation of a Large-scale Quasi-circular Secondary Ribbon associated with Successive Flares and a Halo CME
Eun-Kyung **Lim**, Vasyl Yurchyshyn, Pankaj Kumar, Kyuhyoun Cho, Chaowei Jiang, Sujin Kim, Heesu Yang, Jongchul Chae, Kyung-Suk Cho, Jeongwoo Lee
ApJ **2017**
https://arxiv.org/pdf/1711.00622.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**

Comprehensive Analysis of the Geoeffective Solar Event of 21 June 2015: Effects on the Magnetosphere, Plasmasphere, and Ionosphere Systems
Mirko **Piersanti**, Tommaso Alberti, Alessandro Bemporad …
Solar Physics November **2017**, 292:169
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1186-0.pdf

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

Study of the Geoeffectiveness and Galactic Cosmic-Ray Response of VarSITI-ISEST Campaign Events in Solar Cycle 24
O. P. M. **Aslam**, Badruddin
Solar Physics September **2017**, 292:135

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

21-24 June
Understanding Problem Forecasts of ISEST Campaign Flare-CME Events
David **Webb**, Nariaki Nitta
Solar Physics October **2017**, 292:142 **File**

21-27 June

The evolution of coronal mass ejections in the inner heliosphere: Implementing the spheromak model with EUHFORIA
C. **Verbeke**, J. Pomoell and S. Poedts
A&A 627, A111 (**2019**)
sci-hub.se/10.1051/0004-6361/201834702

EUHFORIA: European heliospheric forecasting information asset
Jens **Pomoell**1* and S. Poedts2
J. Space Weather Space Clim. **2018**, 8, A35
https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170062.pdf

22 June- 18:23: **M6.5/2B LDE flare**, S15~1200, II тип
- **Мягкие протоны достигли J10~1000 pfu**

The Lorentz force at work: multi-phase magnetohydrodynamics throughout a flare lifespan
Wenzhi **Ruan**, Rony Keppens, Limei Yan, Patrick Antolin
ApJ **2024**
https://arxiv.org/pdf/2403.19204.pdf

SWASTi-CME: A physics-based model to study CME evolution and its interaction with Solar Wind
Prateek **Mayank**, Bhargav Vaidya, Wageesh Mishra, D. Chakrabarty
ApJS **2023**
https://arxiv.org/pdf/2310.18219.pdf

Characterizing 3D Magnetic Structures in Sunspot Light Bridges

Ju **Jing**1,2, Nian Liu1,2, Jeongwoo Lee1,2, Yan Xu1,2, Wenda Cao1,2, and Haimin Wang1,2
2023 ApJ 952 40
https://iopscience.iop.org/article/10.3847/1538-4357/acd44f/pdf

Magnetic Reconnection Rate in the M6.5 Solar Flare on 2015 June 22
Bryce **Cannon**1, Ju Jing1,2, Qin Li1,2, Nian Liu1,2, Jeongwoo Lee1,2, Wenda Cao1,2, and Haimin Wang1,2
2023 ApJ 950 144
https://iopscience.iop.org/article/10.3847/1538-4357/accf9f/pdf

Coronal Magnetic Field Extrapolation and Topological Analysis of Fine-Scale Structures during Solar Flare Precursors
Wen **He**, Qiang Hu, Ju Jing, Haimin Wang, Chaowei Jiang, Sushree S. Nayak, Avijeet Prasad
ApJ **2023**
https://arxiv.org/pdf/2306.03226.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

Formation and Eruption of Hot Channels during an M6.5 Class Solar Flare
Yanjie **Liu**1,2, Yingna Su1,2, Rui Liu3, Jialin Chen1,2, Tie Liu4,5, and Haisheng Ji1,2
2022 ApJ 941 83
https://arxiv.org/pdf/2211.06060.pdf
https://iopscience.iop.org/article/10.3847/1538-4357/aca08c/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

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

To Rain or Not to Rain: Correlating GOES Flare Class and Coronal Rain Statistics
Emily I. **Mason**, Kara L. Kniezewski
ApJ **2022**
https://arxiv.org/pdf/2209.11283.pdf

Multi-instrument Comparative Study of Temperature, Number Density, and Emission Measure during the Precursor Phase of a Solar Flare
Nian **Liu**, Ju Jing, Yan Xu, Haimin Wang
Astrophysical Journal, 930:154 (10pp), **2022** May 10
https://arxiv.org/ftp/arxiv/papers/2302/2302.06825.pdf

Blueshifted Si iv 1402.77 Å Line Profiles in a Moving Flare Kernel Observed by IRIS
Juraj **Lörinčík**1,2, Jaroslav Dudík3, and Vanessa Polito1,2
2022 ApJ 934 80
https://iopscience.iop.org/article/10.3847/1538-4357/ac78e2/pdf

On the nature of photospheric horizontal magnetic field increase in major solar flares

Lijuan **Liu**, Zhenjun Zhou, Yuming Wang, Xudong Sun, Guoqiang Wang
ApJL **2022**
https://arxiv.org/pdf/2207.12044.pdf

A Machine Learning Approach to Predicting SEP Events Using Properties of Coronal Mass Ejections
Jesse **Torres**,Lulu Zhao,Philip K. Chan,Ming Zhang
Space Weather e2021SW002797 **2022**
https://doi.org/10.1029/2021SW002797
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2021SW002797

Apparent Footpoint Rotation and Writhe of Double Hot Channels in a Solar Flare
Yanjie **Liu**1,2, Yingna Su1,2, Rui Liu3, Jialin Chen1,2, Tie Liu4,5, and Haisheng Ji1,2
2022 ApJ 930 130
https://iopscience.iop.org/article/10.3847/1538-4357/ac63ac/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

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

Exploring mutual information between IRIS spectral lines. II. Calculating the most probable response in all spectral windows
Brandon **Panos**, Lucia Kleint
2021
https://arxiv.org/pdf/2106.03463.pdf

Comparative study of electric currents and energetic particle fluxes in a solar flare and Earth magnetospheric substorm
Anton **Artemyev**, Ivan Zimovets, Ivan Sharykin, Yukitoshi Nishimura, Cooper Downs, James Weygand, Robyn Fiori, Xiao-Jia Zhang, Andrei Runov, Marco Velli, Vassilis Angelopoulos, Olga Panasenco, Christopher Russell, Yoshizumi Miyoshi, Satoshi Kasahara, Ayako Matsuoka, Shoichiro Yokota, Kunihiro Keika, Tomoaki Hori, Yoichi Kazama, Shiang-Yu Wang, Iku Shinohara, Yasunobu Ogawa
https://arxiv.org/pdf/2105.03772.pdf
ApJ ? **2021**
https://arxiv.org/pdf/2105.03772.pdf

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

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

On the seismic emission in sunspots associated with Lorentz force changes accompanying major solar flares

Hirdesh **Kumar**, Brajesh Kumar
MNRAS **2020**
https://arxiv.org/pdf/2007.05231.pdf

Onset Mechanism of M6.5 Solar Flare Observed in Active Region 12371
Jihye **Kang**, Satoshi Inoue, Kanya Kusano, Sung-Hong Park, Yong-Jae Moon
ApJ **2019**
https://arxiv.org/pdf/1911.05337.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

The evolution of coronal mass ejections in the inner heliosphere: Implementing the spheromak model with EUHFORIA
C. **Verbeke**, J. Pomoell and S. Poedts
A&A 627, A111 (**2019**)
sci-hub.se/10.1051/0004-6361/201834702

Spectral Diagnosis of Mg ii and Hα Lines during the Initial Stage of an M6.5 Solar Flare
Nengyi **Huang**, Yan Xu, Viacheslav M Sadykov, Ju Jing, and Haimin Wang
2019 ApJL 878 L15
https://iopscience.iop.org/article/10.3847/2041-8213/ab2330/pdf

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

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

Impacts of EUV Wavefronts on Coronal Structures in Homologous Coronal Mass Ejections
Rui **Liu**, Yuming Wang, Jeongwoo Lee, Chenglong Shen
ApJ **2018**
https://arxiv.org/pdf/1811.01326.pdf

Evolution of Photospheric Vector Magnetic Field Associated with Moving Flare Ribbons As Seen By GST
Chang **Liu**, Wenda Cao, Jongchul Chae, Kwangsu Ahn, Debi Prasad Choudhary, Jeongwoo Lee, Rui Liu, Na Deng, Jiasheng Wang, Haimin Wang
ApJ **2018**
https://arxiv.org/pdf/1810.11733.pdf

An operational solar wind prediction system transitioning fundamental science to operations
Jingjing **Wang**1*, Xianzhi Ao1, Yuming Wang2, Chuanbing Wang2, Yanxia Cai1, Bingxian Luo1,3, Siqing Liu1,3, Chenglong Shen2, Bin Zhuang2, Xianghui Xue2 and Jiancun Gong1
J. Space Weather Space Clim. Volume 8, **2018** A39
https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170037.pdf

First Joint Observations of the Space Weather Events over Mexico

V. **De la Luz**, J.A González-Esparza, M.A. Sergeeva, P. Corona-Romero, L.X. González, J. Mejía-Ambriz,J.F. Valdés-Galicia, E. Aguilar-Rodríguez, M. Rodríguez-Martínez, E. Romero-Hernández, E. Andrade, P. Villanueva, E. Huipe-Domratcheva, G. Cifuentes, E. Hernandez, C. Monstein
Annales Geophysicae (ANGEO) **2018**
https://arxiv.org/pdf/1808.07425.pdf

Photospheric response to a flare
Michael S. **Wheatland**, Donald B. Melrose, Alpha Mastrano
ApJ **2018**
https://arxiv.org/pdf/1808.03097.pdf

Cosmic-Ray Short Burst Observed with the Global Muon Detector Network (GMDN) on 2015 June 22
K. **Munakata**1, M. Kozai2, P. Evenson3, T. Kuwabara3, C. Kato1, M. Tokumaru4, M. Rockenbach5, A. Dal Lago5, R. R. S. de Mendonca5,6, C. R. Braga5⋯
2018 ApJ 862 170
http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/1538-4357/aacdfe/meta

EUHFORIA: European heliospheric forecasting information asset
Jens **Pomoell**1* and S. Poedts2
J. Space Weather Space Clim. **2018**, 8, A35
https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170062.pdf

Automated Solar Flare Detection and Feature Extraction in High-Resolution and Full-Disk H αα Images
Meng **Yang**, Yu Tian, Yangyi Liu, Changhui Rao
Solar Physics May **2018**, 293:81
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1300-y.pdf

Was the cosmic ray burst detected by the GRAPES-3 on 22 June 2015 caused by transient weakening of geomagnetic field or by an interplanetary anisotropy?
P.K. Mohanty, K.P. Arunbabu, T. Aziz, S.R. Dugad, S.K. Gupta, B. Hariharan, P. Jagadeesan, A. Jain, S.D. Morris, P.K. Nayak, P.S. Rakshe, K. Ramesh,B.S. Rao, M. Zuberi, Y. Hayashi, S. Kawakami, P. Subramanian, S. Raha, S. Ahmad, A. Oshima, S. Shibata, H. Kojima
Physical Review D **2018**
https://arxiv.org/pdf/1803.10499.pdf

Interplanetary Coronal Mass Ejections During Solar Cycles 23 and 24: Sun–Earth Propagation Characteristics and Consequences at the Near-Earth Region
M. Syed **Ibrahim**, Bhuwan Joshi, K.-S. Cho, R.-S. Kim, Y.-J. Moon
Solar Physics May **2019**, 294:54 **File**
sci-hub.se/10.1007/s11207-019-1443-5

Solar Activities and Its Impact on Space Weather
Pandit, Drabindra; Chapagain, Narayan P.; Adhikari, Binod; Mishra, Roshan K.
Long-term Datasets for the Understanding of Solar and Stellar Magnetic Cycles, Proceedings of the International Astronomical Union, IAU Symposium, Volume 340, pp. 149-150, **2018**
sci-hub.se/10.1017/S1743921318001606

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

An Anisotropic Cosmic-Ray Enhancement Event on 07-June-2015: A Possible Origin
Agnieszka **Gil**, Gennady A. Kovaltsov, Vladimir V. Mikhailov, Alexander Mishev, Stepan Poluianov, Ilya G. Usoskin
Solar Physics November **2018**, 293:154
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1375-5.pdf
sci-hub.tw/10.1007/s11207-018-1375-5

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

Was the cosmic ray burst detected by the GRAPES-3 on 22 June 2015 caused by transient weakening of geomagnetic field or by an interplanetary anisotropy?
P.K. **Mohanty** , K.P. Arunbabu, T. Aziz, S.R. Dugad, S.K. Gupta, B. Hariharan, P. Jagadeesan, A. Jain, S.D. Morris, P.K. Nayak, P.S. Rakshe, K. Ramesh,B.S. Rao, M. Zuberi, Y. Hayashi, S. Kawakami, P. Subramanian, S. Raha, S. Ahmad, A. Oshima, S. Shibata, H. Kojima
Physical Review D **2018**
https://arxiv.org/pdf/1803.10499.pdf

Statistical Analysis of Torus and Kink Instabilities in Solar Eruptions
Ju **Jing**, Chang Liu, Jeongwoo Lee, Hantao Ji, Nian Liu, Yan Xu, Haimin Wang
2018
https://arxiv.org/pdf/1808.08924.pdf

Cosmic ray short burst observed with the Global Muon Detector Network (GMDN) on June 22, 2015
K. **Munakata**, M. Kozai, P. Evenson, T. Kuwabara, C. Kato, M. Tokumaru, M. Rockenbach, A. Dal Lago, R. R. S. Mendonca, C. R. Braga, N. J. Schuch,H. K. Al Jassar, M. M. Sharma, M. L. Duldig, J. E. Humble, I. Sabbah, J. Kota
ApJ 862, 170 **2018**
https://arxiv.org/pdf/1806.10601.pdf
sci-hub.se/10.3847/1538-4357/aacdfe

The 2015 Summer Solstice Storm: one of the major geomagnetic storms of solar cycle 24 observed at ground level
C. R. A. **Augusto**, C. E. Navia, M. N. de Oliveira, A. A. Nepomuceno, J. P. Raulin, E. Tueros, R. R. de Mendonça, A. C. Fauth, H. Vieira de Souza, V. Kopenkin, T. Sinzi
Solar Phys. 2018
https://arxiv.org/pdf/1805.05277.pdf

Unusual Cosmic Ray Variations During the Forbush Decreases of June 2015
E. **Samara**, A. Smponias, I. Lytrosyngounis, D. Lingri, H. Mavromichalaki, C. Sgouropoulos
Solar Physics April **2018**, 293:67
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1290-9.pdf

Revealing evolution of nonthermal electrons in solar flares using 3D modeling
Gregory D. **Fleishman**, Gelu M. Nita, Natsuha Kuroda, Sabina Jia, Kevin Tong, Richard R. Wen, Zhou Zhizhuo
ApJ **2018**
https://arxiv.org/pdf/1803.09847.pdf

Pre-Eruptive Magnetic Reconnection within a Multi-Flux-Rope System in the Solar Corona

Arun Kumar **Awasthi**, Rui Liu, Haimin Wang, Yuming Wang, Chenglong Shen
ApJ **2018**
https://arxiv.org/pdf/1803.04088.pdf

Transient rotation of photospheric vector magnetic fields associated with a solar flare
Yan **Xu**, Wenda Cao, Kwangsu Ahn, Ju Jing, Chang Liu, Jongchul Chae, Nengyi Huang, Na Deng, Dale E. Gary, Haimin Wang
Nature Communications **2018**
https://www.nature.com/articles/s41467-017-02509-w.pdf
https://arxiv.org/pdf/1801.03171.pdf

Evolution of Photospheric Flow and Magnetic Fields Associated with The 2015 June 22 M6.5 Flare
Jiasheng **Wang**, Chang Liu, Na deng, Haimin Wang
2018
https://arxiv.org/pdf/1801.03486.pdf

Impulsive Increase of Galactic Cosmic Ray Flux Observed by IceTop
P. **Evenson**, IceCube Collaboration, P.S. Mangeard, P. Muangha, R. Pyle, D. Ruffolo and A. Sáiz
Proc. of 35th International Cosmic Ray Conference 10-20 July, **2017** Bexco, Busan, Korea
https://pos.sissa.it/301/133/pdf

Three-dimensional Forward-fit Modeling of the Hard X-Ray and the Microwave Emissions of the 2015 June 22 M6.5 Flare
Natsuha **Kuroda**, Dale E. Gary, Haimin Wang, Gregory Fleishman, Gelu M. Nita, Ju Jing
2017
https://arxiv.org/pdf/1712.07253.pdf

The Photospheric Vortex Flows during a Solar Flare
Yi **Bi**, Jiayan Yang, Yunchun Jiang, Junchao Hong, Zhe Xu, Zhining Qu, and Kaifang Ji
2017 ApJL 849 L35

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

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

Structure and Dynamics of Cool Flare Loops Observed by the Interface Region Imaging Spectrograph
K. **Mikuła**1, P. Heinzel2, W. Liu2, and A. Berlicki
2017 ApJ 845 30
http://sci-hub.cc/10.3847/1538-4357/aa7d4e

Witnessing a Large-scale Slipping Magnetic Reconnection along a Dimming Channel during a Solar Flare
Ju **Jing**, Rui Liu, Mark C. M. Cheung, Jeongwoo Lee, Yan Xu, Chang Liu, Chunming Zhu, Haimin Wang
2017
https://arxiv.org/pdf/1706.01355.pdf

High-resolution observations of flare precursors in the low solar atmosphere
Haimin **Wang**, Chang Liu, Kwangsu Ahn, Yan Xu, Ju Jing, Na Deng, Nengyi Huang, Rui Liu, Kanya Kusano, Gregory D. Fleishman, Dale E. Gary, Wenda Cao
Nature Astronomy 1, 0085 **2017**
https://arxiv.org/pdf/1703.09866.pdf
http://www.nature.com/articles/s41550-017-0085

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

Flare differentially rotates sunspot on Sun's surface
Chang **Liu**, Yan Xu, Wenda Cao, Na Deng, Jeongwoo Lee, Hugh S. Hudson, Dale E. Gary, Jiasheng Wang, Ju Jing, Haimin Wang
Nature Communications **2016**
https://arxiv.org/pdf/1610.02969v1.pdf

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

Spectroscopic Diagnostics of Solar Magnetic Flux Ropes Using Iron Forbidden Line
X. **Cheng**, M. D. Ding
ApJL **2016**
http://arxiv.org/pdf/1605.00195v1.pdf

Unprecedented Fine Structure of a Solar Flare Revealed by the 1.6 m New Solar Telescope
Ju **Jing**, Yan Xu, Wenda Cao, Chang Liu, Dale Gary & Haimin Wang
Scientific Reports 6, Article number: 24319 **2016**
http://www.nature.com/articles/srep24319#s2

Transient Weakening of Earth's Magnetic Shield Probed by a Cosmic Ray Burst
P. K. **Mohanty**, K. P. Arunbabu, T. Aziz, S. R. Dugad, S. K. Gupta, B. Hariharan, P. Jagadeesan, A. Jain, S. D. Morris, B. S. Rao, Y. Hayashi, S. Kawakami, A. Oshima, S. Shibata, S. Raha, P. Subramanian, and H. Kojima
Phys. Rev. Lett. 117, 171101 – Published 20 October **2016**
sci-hub.tw/10.1103/PhysRevLett.117.171101

Plasma and Magnetic Field Characteristics of Solar Coronal Mass Ejections in Relation to Geomagnetic Storm Intensity and Variability
Ying D. **Liu**, Huidong Hu, Rui Wang, Zhongwei Yang, Bei Zhu, Yi A. Liu, Janet G. Luhmann, John D. Richardson
ApJL **2015**
http://arxiv.org/pdf/1508.01267v1.pdf

22-23 June - A series of CMEs hit Earth's magnetic field on June 22nd, producing a severe G4-class geomagnetic storm, Dst~-198 nT, сильный форбуш.

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

Analysis of Cosmic Ray Fluxes at Different Stations during Geomagnetic Storms using Wavelet Based Approaches: Continuous Wavelet Transform and Multi-Resolution Analysis
Uga, CI ; Adhikari, B ; Teferi, D
GEOMAGNETISM AND AERONOMY Volume 63, Issue 6, Page 818-838, **2024**
DOI 10.1134/S0016793223600418

SWASTi-CME: A physics-based model to study CME evolution and its interaction with Solar Wind
Prateek **Mayank**, Bhargav Vaidya, Wageesh Mishra, D. Chakrabarty
ApJS **2023**
https://arxiv.org/pdf/2310.18219.pdf

Properties of Forbush Decreases with AMS-02 Daily Proton Flux Data
Siqi **Wang**1, Veronica Bindi1, Cristina Consolandi1, Claudio Corti1, Christopher Light1, Nikolay Nikonov1, and Andrew Kuhlman1
2023 ApJ 950 23
https://iopscience.iop.org/article/10.3847/1538-4357/acca1b/pdf

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

HXR emission from an activated flux rope and subsequent evolution of an eruptive long duration solar flare
Suraj **Sahu**, Bhuwan Joshi, Prabir K. Mitra, Astrid M. Veronig, V. Yurchyshyn
ApJ **2020**
https://arxiv.org/pdf/2005.06221.pdf

Chapter 10 - Geomagnetic Storms: First-Principles Models for Extreme Geospace Environment
Review
Natalia **Buzulukova***†Mei-ChingFok*AlexGlocer*ColinKomar*‡Suk-BinKang*StevenMartin*§Chigomezyo M.Ngwira*‡GuanLe*
In: Extreme Events in Geospace Origins, Predictability, and Consequences **2018**, Pages 231-258
http://sci-hub.tw/10.1016/B978-0-12-812700-1.00010-8

The Evolution of Quasi-Separatrix Layer in Two Solar Eruptive Events
Kang **Kai-Feng**, Yan Xiao-li, Xu Zhi, Wu Ning, Lin Jun
Chinese Astronomy and Astrophysics Volume 42, Issue 3 Pages 386-420 **2018**
https://www.sciencedirect.com/journal/chinese-astronomy-and-astrophysics/vol/42/issue/3

A Major Geoeffective CME from NOAA 12371: Initiation, CME–CME Interactions, and Interplanetary Consequences
Bhuwan **Joshi**, M. Syed Ibrahim, A. Shanmugaraju, D. Chakrabarty
Solar Physics July **2018**, 293:107
http://sci-hub.se/http://link.springer.com/10.1007/s11207-018-1325-2

The 2015 Summer Solstice Storm: one of the major geomagnetic storms of solar cycle 24 observed at ground level
C. R. A. **Augusto**, C. E. Navia, M. N. de Oliveira, A. A. Nepomuceno, J. P. Raulin, E. Tueros, R. R. de Mendonça, A. C. Fauth, H. Vieira de Souza, V. Kopenkin, T. Sinzi
Solar Phys. 2018
https://arxiv.org/pdf/1805.05277.pdf

Unusual Cosmic Ray Variations During the Forbush Decreases of June 2015
E. **Samara**, A. Smponias, I. Lytrosyngounis, D. Lingri, H. Mavromichalaki, C. Sgouropoulos
Solar Physics April **2018**, 293:67
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1290-9.pdf

ОСОБЕННОСТИ ПОТОКОВ СОЛНЕЧНОГО ВЕТРА В ПЕРИОД 21-28 ИЮНЯ 2015 Г. КАК РЕЗУЛЬТАТ ВЗАИМОДЕЙСТВИЯ КОРОНАЛЬНЫХ ВЫБРОСОВ МАССЫ И РЕКУРРЕНТНЫХ ПОТОКОВ ИЗ КОРОНАЛЬНЫХ ДЫР

ШУГАЙ Ю.С.1, СЛЕМЗИН В.А.2, РОДЬКИН Д.Г.2
Косм. Исслед. Том: 55Номер: 6 Год: **2017** Страницы: 399-406

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

АНАЛИЗ ФОРБУШ-ЭФФЕКТА В ИЮНЕ 2015 Г. МЕТОДОМ СПЕКТРОГРАФИЧЕСКОЙ ГЛОБАЛЬНОЙ СЪЕМКИ
КРАВЦОВА М.В.1, СДОБНОВ В.Е.1
ИЗВЕСТИЯ РОССИЙСКОЙ АКАДЕМИИ НАУК. СЕРИЯ ФИЗИЧЕСКАЯ
Том: 81Номер: 2 Год: **2017** Страницы: 196-198
По данным наземных измерений космических лучей (КЛ) на мировой сети станций методом спектрографической глобальной съемки исследован форбуш-эффект в июне 2015 г. При аппроксимации спектров вариаций степенной функцией от жесткости частиц в интервале 10–50 ГВ на фазе максимальной модуляции показатель спектра больше, чем на фазах спада и восстановления интенсивности КЛ.

The Spanish Space Weather Service SeNMEs. A case study on the Sun-Earth chain
J. **Palacios**, C. Cid, A. Guerrero, E. Saiz, Y. Cerrato, M. Rodríguez-Bouza, I. Rodríguez-Bilbao, M. Herraiz, G. Rodríguez-Caderot
ASP Conference Series, **2016**, volume 504: Ground based solar observations in the space instrumentation era **2017**
https://arxiv.org/pdf/1704.00684.pdf

Analysis of the monitoring data of geomagnetic storm interference in the electrification system of a high-speed railway
Lianguang **Liu**, Xiaoning Ge, Wei Zong, You Zhou,
Space Weather Volume 14, Issue 10 October **2016** Pages 754–763
http://sci-hub.cc/doi/10.1002/2016SW001411

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

23 June

Unusual Cosmic Ray Variations During the Forbush Decreases of June 2015
E. **Samara**, A. Smponias, I. Lytrosyngounis, D. Lingri, H. Mavromichalaki, C. Sgouropoulos
Solar Physics April **2018**, 293:67
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1290-9.pdf

24 June

Fine structure of type III solar radio bursts from Langmuir wave motion in turbulent plasma

Hamish A. S. **Reid**, Eduard P. Kontar
2021
https://arxiv.org/pdf/2103.08424.pdf

Characteristics of ephemeral coronal holes
Andrew R. **Inglis**, Rachel E. O'Connor, W. Dean Pesnell, Michael S. Kirk, Nishu Karna
ApJ **2019**
https://arxiv.org/pdf/1906.01757.pdf

EUHFORIA: European heliospheric forecasting information asset
Jens **Pomoell**1* and S. Poedts2
J. Space Weather Space Clim. **2018**, 8, A35
https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170062.pdf

25 June - As expected, a CME hit Eath's magnetic field on June 24th. At first the impact had little effect, but now a G2-class **geomagnetic storm** is in progress as Earth passes through the CME's wake, Dst~-79, **новый форбуш**.
- 08:16: M7.9/3B LDE flare, N09W42,II,IV, **S5~6400**, large asymmetric full **halo CME**, 2000 km/s (http://www.spaceweather.com/images2015/25jun15/cme_anim2.gif),
Мягкие протоны J10~6-10 pfu. Gamma

Solar radio bursts impact on the International GNSS Service Network during Solar Cycle 24
Manuel **Flores-Soriano***
J. Space Weather Space Clim. **2024**, 14, 32
https://www.swsc-journal.org/articles/swsc/pdf/2024/01/swsc240021.pdf

Cannibals in PARADISE: The Effect of Merging Interplanetary Shocks on Solar Energetic Particle Events
Antonio **Niemela**1,2, Nicolas Wijsen1, Angels Aran3,4, Luciano Rodriguez2, Jasmina Magdalenic1,2, and Stefaan Poedts1,5
2024 ApJL 967 L35
https://iopscience.iop.org/article/10.3847/2041-8213/ad4c70/pdf

SWASTi-CME: A physics-based model to study CME evolution and its interaction with Solar Wind
Prateek **Mayank**, Bhargav Vaidya, Wageesh Mishra, D. Chakrabarty
ApJS **2023**
https://arxiv.org/pdf/2310.18219.pdf

Turbulence in Sources of Decimetric Flare Continua
Marian **Karlický**
Solar Physics volume 298, Article number: 95 (**2023**)
https://link.springer.com/content/pdf/10.1007/s11207-023-02188-5.pdf

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

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

A Machine Learning Approach to Predicting SEP Events Using Properties of Coronal Mass Ejections
Jesse **Torres**,Lulu Zhao,Philip K. Chan,Ming Zhang
Space Weather e2021SW002797 **2022**
https://doi.org/10.1029/2021SW002797
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2021SW002797

Sizes and shapes of sources in solar metric radio bursts
M. **Gordovskyy**, E.P. Kontar, D.L. Clarkson, N. Chrysaphi, P.K. Browning
ApJ **2021**
https://arxiv.org/pdf/2111.07777.pdf

A Weak Fermi Gamma-ray Event Associated with a Halo CME and a Type II Radio Burst
N. Gopalswamy, P. Mäkelä, S. Yashiro
Proceedings URSI GASS 2020 **2021**
https://arxiv.org/ftp/arxiv/papers/2105/2105.01212.pdf

Fine structures of solar radio bursts: origins and radio-wave propagation effects
Nicolina **Chrysaphi**
PhD **Thesis**, University of Glasgow, **2021**.
https://arxiv.org/pdf/2103.13745.pdf

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

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

The evolution of coronal mass ejections in the inner heliosphere: Implementing the spheromak model with EUHFORIA
C. **Verbeke**, J. Pomoell and S. Poedts
A&A 627, A111 (**2019**)
sci-hub.se/10.1051/0004-6361/201834702

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**

Flame-like Ellerman Bombs and Their Connection to Solar UV Bursts
Yajie **Chen**, Hui Tian, Hardi Peter, Tanmoy Samanta, Vasyl Yurchyshyn, Haimin Wang, Wenda Cao, Linghua Wang, Jiansen He
ApJL **2019**
https://arxiv.org/pdf/1903.01981.pdf

Frequency–Distance Structure of Solar Radio Sources Observed by LOFAR

Mykola **Gordovskyy**1, Eduard Kontar2, Philippa Browning1, and Alexey Kuznetsov
2019 ApJ 873 48
https://iopscience.iop.org/article/10.3847/1538-4357/ab03d8/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

Impacts of EUV Wavefronts on Coronal Structures in Homologous Coronal Mass Ejections
Rui **Liu**, Yuming Wang, Jeongwoo Lee, Chenglong Shen
ApJ **2018**
https://arxiv.org/pdf/1811.01326.pdf

CME-driven shock and Type II solar radio burst band-splitting
Nicolina **Chrysaphi**, Eduard P. Kontar, Gordon D. Holman, Manuela Temmer
ApJ **2018**
https://arxiv.org/pdf/1810.08026.pdf

Unusual Cosmic Ray Variations During the Forbush Decreases of June 2015
E. **Samara**, A. Smponias, I. Lytrosyngounis, D. Lingri, H. Mavromichalaki, C. Sgouropoulos
Solar Physics April **2018**, 293:67
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1290-9.pdf

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

ОСОБЕННОСТИ ПОТОКОВ СОЛНЕЧНОГО ВЕТРА В ПЕРИОД 21-28 ИЮНЯ 2015 Г. КАК РЕЗУЛЬТАТ ВЗАИМОДЕЙСТВИЯ КОРОНАЛЬНЫХ ВЫБРОСОВ МАССЫ И РЕКУРРЕНТНЫХ ПОТОКОВ ИЗ КОРОНАЛЬНЫХ ДЫР

ШУГАЙ Ю.С.1, СЛЕМЗИН В.А.2, РОДЬКИН Д.Г.2
Косм. Исслед. Том: 55Номер: 6 Год: **2017** Страницы: 399-406

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

Sudden Penumbral Reappearance and Umbral Motion Induced by an M7.9 Solar Flare
Zhe **Xu**1,2,3, Yunchun Jiang1,3, Jiayan Yang1,3, Junchao Hong1,3, and Haidong Li
2017 ApJL 840 L21
http://iopscience.iop.org.sci-hub.cc/2041-8205/840/2/L21/

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

26 June

Predicting well-connected SEP events from observations of solar EUVs and energetic protons
Marlon **Núñez**1*, Teresa Nieves-Chinchilla2 and Antti Pulkkinen2
J. Space Weather Space Clim. **2019**, 9, A27
https://www.swsc-journal.org/articles/swsc/pdf/2019/01/swsc180069.pdf

Energetics of magnetic transients in solar active region plage
L. P. **Chitta**, A. R. C. Sukarmadji, L. Rouppe van der Voort, H. Peter
A&A **2019**
https://arxiv.org/pdf/1902.01650.pdf

On the generation of solar spicules and Alfvénic waves
Juan **Martínez-Sykora**, Bart De Pontieu, Viggo H. Hansteen, Luc Rouppe van der Voort, Mats Carlsson, Tiago M. D. Pereira
2017
https://arxiv.org/ftp/arxiv/papers/1710/1710.07559.pdf

27 June
EUHFORIA: European heliospheric forecasting information asset
Jens **Pomoell**1* and S. Poedts2
J. Space Weather Space Clim. **2018**, 8, A35
https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170062.pdf

28 Jun
The Origin of Underdense Plasma Downflows Associated with Magnetic Reconnection in Solar Flares
Chengcai **Shen**, Bin Chen, Katharine K. Reeves, Sijie Yu, Vanessa Polito, Xiaoyan Xie
2021
https://arxiv.org/pdf/2111.11407.pdf

29 June
Simultaneous transverse and longitudinal oscillations in a quiescent prominence triggered by a coronal jet
Qingmin **Zhang**, Dong Li, Zongjun Ning
ApJ **2017**
https://arxiv.org/pdf/1711.00670.pdf

30 June

Observation of bi-directional jets in a prominence⋆
A. **Hillier**1 and V. Polito2,3
A&A 651, A60 (**2021**)
https://www.aanda.org/articles/aa/pdf/2021/07/aa35774-19.pdf
https://doi.org/10.1051/0004-6361/201935774

Observations of the Kelvin-Helmholtz instability driven by dynamic motions in a solar prominence
Andrew **Hillier**, Vanessa Polito
ApJL **2018**
https://arxiv.org/pdf/1808.02286.pdf

1 July

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

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

2 Jul

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

5 July – **a minor storm** under the influence of a high speed stream associated with CH675, **форбуш**..

High-frequency dynamics of active region moss as observed by IRIS
Nancy **Narang**, Vaibhav Pant, Dipankar Banerjee, Tom Van Doorsselaere
Front. Astron. Space Sci **2019**
https://arxiv.org/pdf/1905.00722.pdf

7-10 July
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

8 July
Automated Segmentation of High-Resolution Photospheric Images of Active Regions
Meng **Yang**, Yu Tian, Changhui Rao
Solar Physics February **2018**, 293:15
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1236-7.pdf

9 July

On Solar Recurrent Coronal Jets: Coronal Geysers as Sources of Electron Beams and Interplanetary Type-III Radio Bursts
Alin Razvan **Paraschiv** and Alina Donea
2019 ApJ 873 110
https://doi.org/10.3847/1538-4357/ab04a6
https://arxiv.org/pdf/1903.04682.pdf

Untwisting Jets Related to Magnetic Flux Cancellation
Jiajia **Liu**, Robert Erdélyi, Yuming Wang, Rui Liu
2018 ApJ 852 10
https://arxiv.org/pdf/1711.06066.pdf
http://iopscience.iop.org/article/10.3847/1538-4357/aa992d/pdf

9-10 Jul
Modeling a Coronal Mass Ejection from an Extended Filament Channel. I. Eruption and Early Evolution

Benjamin J. **Lynch**, Erika Palmerio, C. Richard DeVore, Maria D. Kazachenko, Joel T. Dahlin, Jens Pomoell, Emilia K. J. Kilpua
ApJ **2021**
https://arxiv.org/pdf/2104.08643.pdf

10 July

Solar jets observed with the Interface Region Imaging Spectrograph (IRIS)
Brigitte **Schmieder**, Reetika Joshi, Ramesh Chandra
Advances in Space Research **2021**
https://arxiv.org/pdf/2111.09002.pdf

A Model for Coronal Inflows and In/Out Pairs
Benjamin J. **Lynch**
ApJ **2020**
https://arxiv.org/pdf/2010.13959.pdf

Cool and hot emission in a recurring active region jet
Sargam M. **Mulay** , Giulio Del Zanna, and Helen Mason
uksp_nug #108 **2020**
http://www.uksolphys.org/uksp-nugget/108-cool-and-hot-emission-in-a-recurring-active-region-jet/

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

Untwisting Jets Related to Magnetic Flux Cancellation
Jiajia **Liu**1, Robert Erdélyi1,2, Yuming Wang3,2, and Rui Liu3,2
2018 ApJ 852 10
https://arxiv.org/pdf/1711.06066.pdf
http://iopscience.iop.org/article/10.3847/1538-4357/aa992d/pdf

Cool and hot emission in a recurring active region jet⋆
Sargam M. **Mulay**, Giulio Del Zanna and Helen Mason
A&A 606, A4 (**2017**)
https://www.aanda.org/articles/aa/pdf/2017/10/aa30429-17.pdf

10-12 July

An upgrade of the UTR-2 radio telescope to a multifrequency radio heliograph
Stanislavsky A., Konovalenko A., Koval A., Volvach Ya.
SUN and GEOSPHERE Vol.13, No.1 - **2018** p. 21-24
http://newserver.stil.bas.bg/SUNGEO//00SGArhiv/SG_v13_No1_2018-pp-21-24.pdf

Solar Drift-Pair Bursts
Stanislavsky A. 1,2 , Volvach Ya. 1 , Konovalenko A. 1 , Koval A. 3
Sun and Geosphere, **2017**; 12/2: 99 -103
http://newserver.stil.bas.bg/SUNGEO//00SGArhiv/SG_v12_No2_2017-pp-99-103.pdf

Comparative analysis of decametre 'drift pair' bursts observed in 2002 and 2015
Volvach, Ya.S., Stanislavsky A.A., Konovalenko A.A., Koval A.A., and Dorovskyy V.V.:
2016, Advanced in Astronomy and Space Physics 6, 24. doi: 10.17721/2227-1481.6.24-27
http://aasp.kiev.ua/volume6/024-027-Volvach.pdf

11-13 July

The Efficiency of Coronal Mass Ejection With Different IMF Preconditions on the Production of Megaelectronvolt Electron Content in the Outer Radiation Belt

C.-J. **Yuan** Q.-G. Zong

JGR Volume124, Issue5 May **2019** Pages 3222-3235

sci-hub.se/10.1029/2018JA026263

12 July

Dispersively Formed Quasi-Periodic Fast Magnetosonic Wavefronts Due to the Eruption of a Nearby Mini-filament

Yuandeng **Shen**, Tengfei Song, Yu Liu

MNRAS **2018**

https://arxiv.org/pdf/1803.01125.pdf

13 July

High-resolution Observations of Halpha Spectra with a Subtractive Double Pass

C. **Beck**, R. Rezaei, D. Prasad Choudhary, S. Gosain, A. Tritschler, R.E. Louis

Solar Phys. **2017**

https://arxiv.org/pdf/1712.07077.pdf

14 July

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

The Bi-directional Moving Structures in a Coronal Bright Point

Dong **Li**, Zongjun Ning, Yingna Su

Ap&SS **2016**

http://arxiv.org/pdf/1608.01534v1.pdf

July 14-Aug 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

19 July – утро: эрупция NW волокна

- >07 UT: заметная эрупция прилимбового SW волокна, C2.1 LDE, без радио, без протонов, значительный CME

Sympathetic Quiet and Active Region Filament Eruptions

Kostadinka **Koleva**, Pooja Devi, Ramesh Chandra, Reetika Joshi, Peter Duchlev, Momchil Dechev

Solar Phys. **2022**

https://arxiv.org/pdf/2202.08157.pdf

24-29 Jul

Nature of helicity injection in non-erupting solar active regions

P. **Vemareddy**

MNRAS **2022**

https://arxiv.org/pdf/2208.03228

27 Jul

High Frequency Waves in Chromospheric Spicules

W. **Bate**, D. B. Jess, V. M. Nakariakov, S. D. T. Grant, S. Jafarzadeh, M. Stangalini, P. H. Keys, D. J. Christian, F. P. Keenan

ApJ **2022**

https://arxiv.org/pdf/2203.04997.pdf

31 July

Modern Faraday Rotation Studies to Probe the Solar Wind

Jason **Kooi**, David Wexler, Elizabeth Jensen, Megan Kenny, Teresa Nieves-Chinchilla, Lynn Wilson III, Brian Wood, Lan Jian, Shing Fung, Alexei Pevtsov, Nat Gopalswamy, and Ward Manchester

Front. Astron. Space Sci., 9:841866. **2022** |

https://doi.org/10.3389/fspas.2022.841866

https://www.frontiersin.org/articles/10.3389/fspas.2022.841866/full

https://www.frontiersin.org/articles/10.3389/fspas.2022.841866/pdf

VLA Measurements of Faraday Rotation Through a Coronal Mass Ejection Using Multiple Lines of Sight

Jason E. **Kooi**, Madison L. Ascione, Lianis V. Reyes-Rosa, Sophia K. Rier & Mohammad Ashas

Solar Physics volume 296, Article number: 11 (**2021**)

https://link.springer.com/content/pdf/10.1007/s11207-020-01755-4.pdf

1 Aug

Observations of Ellerman bomb emission features in He I D3 and He I 10830 Å

Tine **Libbrecht**, Jayant Joshi, Jaime de la Cruz Rodríguez, Jorrit Leenaarts, Andrés Asensio Ramos

A&A **2016**

https://arxiv.org/pdf/1610.01321v1.pdf

3 Aug

High-Resolution Observation and Magnetic Modeling of a Solar Minifilament: the Formation, Eruption and Failing Mechanisms

Weilin **Teng**, Yingna Su, Rui Liu, Jialin Chen, Yanjie Liu, Jun Dai, Wenda Cao, Jinhua Shen, Haisheng Ji

ApJ Volume 970, Issue 2, id.100, **2024**

https://arxiv.org/pdf/2405.17303

3-6 Aug

Photospheric Magnetic Fields of the Trailing Sunspots in Active Region NOAA 12396

M. **Verma**, H. Balthasar, C. Denker, F. Böhm, C. E. Fischer, C. Kuckein, S. J. González Manrique, M. Sobotka, N. Bello González, A. Diercke, T. Berkefeld, M. Collados, A. Feller, A. Hofmann, A. Lagg, H. Nicklas, D. Orozco Suárez, A. Pastor Yabar, R. Rezaei, R. Schlichenmaier, D. Schmidt, W. Schmidt, M. Sigwarth, S. K. Solanki, D. Soltau, J. Staude, K. G. Strassmeier, R. Volkmer, O. von der Lühe, T. Waldmann

"Solar Polarization Workshop 8", ASP Proceedings, Luca Belluzzi (eds.) **2018**

https://arxiv.org/pdf/1805.07752.pdf

5 Aug

Evidence of Twisting and Mixed-polarity Solar Photospheric Magnetic Field in Large Penumbral Jets: IRIS and Hinode Observations

Sanjiv K. **Tiwari**, Ronald L. Moore, Bart De Pontieu, Theodore D. Tarbell, Navdeep K. Panesar, Amy R. Winebarger, Alphonse C. Sterling

ApJ **2018**

https://arxiv.org/pdf/1811.09554.pdf

Critical magnetic field strengths for solar coronal plumes in quiet regions and coronal holes?
Ellis A. **Avallone**, Sanjiv K. Tiwari, Navdeep K. Tiwari, Ronald L. Moore, Amy Winebarger
ApJ **2018**
https://arxiv.org/pdf/1805.11188.pdf

7 Aug

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

High-resolution Observations of Flares in an Arch Filament System
Yingna **Su**1,2, Rui Liu3,4, Shangwei Li1,5, Wenda Cao6,7, Kwangsu Ahn6, and Haisheng Ji
2018 ApJ 855 77
http://sci-hub.tw/http://iopscience.iop.org/0004-637X/855/2/77/

9 Aug
Measurement of Vector Magnetic Field in a Flare kernel with a Spectropolarimetric Observation in He I 10830 A
Tetsu **Anan**, Takurou Yoneya, Kiyoshi Ichimoto, Satoru Ueno, Daikou Shiota, Satoshi Nozawa, Shinsuke Takasao, Tomoko Kawate
PASJ (Hida topical issue) **2018**

12 Aug - A **filament** in the SW quadrant of the sun erupted at around 13:32. A partial halo CME was observed after a complex chain of filament eruptions in the southwest quadrant. The first eruption began after 14h UTC and likely triggered a second eruption close to CH682.
http://www.spaceweather.com/images2015/14aug15/cme_anim.gif?PHPSESSID=tvoro73ap38jio58sc0enforq6

13-28 Aug
CMEchaser, Detecting Line-of-Sight Occultations Due to Coronal Mass Ejections
Golam **Shaifullah**, Caterina Tiburzi & Pietro Zucca
Solar Physics volume 295, Article number: 136 (**2020**)
https://arxiv.org/pdf/2008.12153.pdf
https://link.springer.com/content/pdf/10.1007/s11207-020-01705-0.pdf

15-16 Aug - geomagnetic storm, Dst~ -89. A solar wind shock was observed at SOHO at 07:49 UT, the arrival of the CME observed on **August 12**.

16 Aug
Multi-wavelength Spectral Analysis of Ellerman Bombs Observed by FISS and IRIS
Jie **Hong**, M. D. Ding, Wenda Cao
ApJ **2017**
https://arxiv.org/pdf/1703.04268.pdf

17 Aug
Can Injection Model Replenish the Filaments in Weak Magnetic Environment?
Peng **Zou**, Chaowei Jiang, Fengsi Wei, Wenda Cao
Research in Astronomy and Astrophysics **2019**
https://arxiv.org/pdf/1901.00659.pdf

19 Aug

On the Magnetic Nature of Quiet-Sun Chromospheric Grains

María Jesús Martínez **González**1,2, Tanausú del Pino Alemán1,2, Adur Pastor Yabar3, Carlos Quintero Noda1,2, and Andrés Asensio Ramos1,2
2023 ApJL 955 L40
https://iopscience.iop.org/article/10.3847/2041-8213/acfa97/pdf

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

Various Local Heating Events in the Earliest Phase of Flux Emergence
Shin **Toriumi**, Yukio Katsukawa, Mark C.M. Cheung
ApJ **2017**
https://arxiv.org/pdf/1701.01446v1.pdf

21 Aug

Modern Faraday Rotation Studies to Probe the Solar Wind
Jason **Kooi**, David Wexler, Elizabeth Jensen, Megan Kenny, Teresa Nieves-Chinchilla, Lynn Wilson III, Brian Wood, Lan Jian, Shing Fung, Alexei Pevtsov, Nat Gopalswamy, and Ward Manchester
Front. Astron. Space Sci., 9:841866. **2022** |
https://doi.org/10.3389/fspas.2022.841866
https://www.frontiersin.org/articles/10.3389/fspas.2022.841866/full
https://www.frontiersin.org/articles/10.3389/fspas.2022.841866/pdf

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

Magnetic separatrix as the source region of the plasma supply for an active-region filament
P. **Zou**, C. Fang, P. F. Chen, K. Yang, Wenda Cao
ApJ **2017**
https://arxiv.org/pdf/1701.01526v1.pdf

Measuring the magnetic field of coronal mass ejections near the Sun using pulsars,
Howard, T.A., K. Stovall, Dowell, J., G. Taylor, and S. White,
Astrophys. J., 831 208, **2016.**
http://sci-hub.cc/10.3847/0004-637X/831/2/208

22 Aug ~06:40 2B flare

Implications of Flat Optically Thick Microwave Spectra in Solar Flares for Source Size and Morphology
Shaheda Begum **Shaik**, Dale E. Gary
ApJ **2021**
https://arxiv.org/pdf/2107.00192.pdf

Trends and Characteristics of High-Frequency Type II Bursts Detected by CALLISTO Spectrometers
A.C.**Umuhire** (1), J.Uwamahoro (2), K. Sasikumar Raja (3), A.Kumar (4), C.Monstein (5)
Advances In Space Research **2021**
https://arxiv.org/pdf/2106.09310.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

An Event-Based Verification Scheme for the Real-Time Flare Detection System at Kanzelhöhe Observatory
W. **Pötzi**, . M. Veronig, M. Temmer
Solar Physics June **2018**, 293:94
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1312-7.pdf

Muon Excess at Sea Level during the Progress of a Geomagnetic Storm and High Speed Stream Impact Near the Time of Eath's Heliospheric Sheet Crossing
C. R. A. **Augusto**, C. E. Navia, M. N. de Oliveira, A. A. Nepomuceno, V. Kopenkin, T. Sinzi
Solar Phys. **2017**
https://arxiv.org/pdf/1706.00775.pdf

Ground-based Observations of the Solar Sources of Space Weather (Invited Review)
Astrid M. **Veronig**, Werner Pötzi
"Ground-based Solar Observations in the Space Instrumentation Era", Proceedings of the Coimbra Solar Physics Meeting 2015, ASP Conference Series, Eds. I. Dorotovic, C. Fischer, and M. Temmer; **2016**
http://arxiv.org/pdf/1602.02721v1.pdf

23 Aug

The Birth of a Jet-driven Twin CME and Its Deflection from Remote Magnetic Fields
Yadan **Duan**, Yuandeng Shen, Hechao Chen, Hongfei Liang
ApJ **2019**
https://arxiv.org/pdf/1907.07310.pdf

24 Aug

Implications of Flat Optically Thick Microwave Spectra in Solar Flares for Source Size and Morphology
Shaheda Begum **Shaik**, Dale E. Gary
ApJ **2021**
https://arxiv.org/pdf/2107.00192.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

3He-rich Solar Energetic Particles from Sunspot Jets
Radoslav **Bučík**1,2, Mark E. Wiedenbeck3, Glenn M. Mason4, Raúl Gómez-Herrero5, Nariaki V. Nitta6, and Linghua Wang7
2018 ApJL 869 L21
sci-hub.tw/10.3847/2041-8213/aaf37f
https://arxiv.org/pdf/1812.07735.pdf

The eruption of a small-scale emerging flux rope as the driver of an M-class flare and a coronal mass ejection
X.L. **Yan**, C.W. Jiang, Z.K. Xue, J.C. Wang, E.R. Priest, L.H. Yang, D.F. Kong, W.D. Cao, H.S. Ji
ApJ **2017**
https://arxiv.org/pdf/1707.00073.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

25 Aug

Spectropolarimetric Imaging of Metric Type III Solar Radio Bursts
M. M. **Rahman**, Iver H. Cairns & Patrick I. McCauley
Solar Physics volume 295, Article number: 51 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01616-0.pdf

Solar jet-coronal hole collision and a related coronal mass ejection
Ruisheng **Zheng**, Yao Chen, Guohui Du, Chuanyang Li
ApJL **2016**
http://arxiv.org/pdf/1602.06493v1.pdf

25-28 Aug
Predicting the geoeffective properties of coronal mass ejections: current status, open issues and path forward **Review**
A. **Vourlidas**, S. Patsourakos, and N. P. Savani
Philosophical Transactions of the Royal Society A v. 377 Issue 2148 Article ID:20180096 **2019 File**
https://royalsocietypublishing.org/doi/pdf/10.1098/rsta.2018.0096

25-29 Aug
Muon Excess at Sea Level during the Progress of a Geomagnetic Storm and High Speed Stream Impact Near the Time of Eath's Heliospheric Sheet Crossing
C. R. A. **Augusto**, C. E. Navia, M. N. de Oliveira, A. A. Nepomuceno, V. Kopenkin, T. Sinzi
Solar Phys. **2017**
https://arxiv.org/pdf/1706.00775.pdf

26 Aug – 13:53: LDE, C9.5; A CME was observed off the west limb from 20:36 UT in LASCO C2 imagery. This was likely associated with an **extensive filament eruption** to the north and northeast of AR 12403.
~20 UT: большая трансэкваториальная центрально-западная эрупция

26-28 Aug – геомагнитная буря (Dst~-100), форбуш. Источник? For the third day in a row, Earth's magnetic field is simmering with G1-class geomagnetic storms.

27 Aug

Impulsive radio and hard X-ray emission from an M-class flare
Ping **Zhang**1,2,4, Yang Guo3, Lu Wang1,2 and Siming Liu
A&A 615, A48 (**2018**)
https://www.aanda.org/articles/aa/pdf/2018/07/aa31274-17.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

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*

27-28 Aug
Geomagnetic storm forecasting service StormFocus: 5 years online
Tatiana **Podladchikova**, Anatoly Petrukovich and Yuri Yermolaev
J. Space Weather Space Clim. **2018**, 8, A22
https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170027.pdf

28 Aug – ~06:30: II тип на нашем спектре
A solar flare disturbing a light wall above a sunspot light bridge
Yijun **Hou**, Jun Zhang, Ting Li, Shuhong Yang, Leping Li, Xiaohong Li
2016
http://arxiv.org/pdf/1609.05412v1.pdf

30 Aug
Solar Activity Studies using Microwave Imaging Observations
Nat **Gopalswamy**
URSI Asia-Pacific Radio Science Conference in Seoul, August 21-25, 2016 **2016**
2016)
http://arxiv.org/pdf/1605.02221v1.pdf

30 Aug – 3 September
The Na I and Sr II Resonance Lines in Solar Prominences
Goetz **Stellmacher**, Eberhard Wiehr
Solar Phys. **2017**
https://arxiv.org/pdf/1705.02475.pdf

31 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

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

1 September

Dynamics of photospheric magnetic flux distribution and variations in solar RVs -- a study using HARPS-N solar and SDO observations
Anisha **Sen**, S.P. Rajaguru
ApJ **2023**
https://arxiv.org/pdf/2309.05428.pdf

NuSTAR hard X-ray observation of a sub-A class solar flare
Lindsay **Glesener**, Sa"m Krucker, Iain G. Hannah, Hugh Hudson, Brian W. Grefenstette, Stephen M. White, David M. Smith, Andrew J. Marsh
ApJ **2017**
https://arxiv.org/pdf/1707.04770.pdf

2 Sept
Comparison of theoretical and observed Ca~{\sc ii}~8542 Stokes profiles in quiet regions at the centre of the solar disc
Jan **Jurcak**, Jiri Stepan, Javier Trujillo Bueno, Michele Bianda
A&A **2018**
https://arxiv.org/pdf/1808.09470.pdf

3 September
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

CLASP/SJ Observations of Rapid Time Variations in the Lyα Emission in a Solar Active Region
Shin-nosuke **Ishikawa**1, Masahito Kubo2, Yukio Katsukawa2, Ryouhei Kano2, Noriyuki Narukage2, Ryohko Ishikawa2, Takamasa Bando2, Amy Winebarger3, Ken Kobayashi3, Javier Trujillo Bueno4
2017 ApJ 846 127

Discovery of Scattering Polarization in the Hydrogen Lyman-α Line of the Solar Disk Radiation
R. **Kano**, J. Trujillo Bueno, A. Winebarger, F. Auchère, N. Narukage, R. Ishikawa, K. Kobayashi, T. Bando, Y. Katsukawa, M. Kubo, S. Ishikawa, G. Giono, H. Hara, Y. Suematsu, T. Shimizu, T. Sakao, S. Tsuneta, K. Ichimoto, M. Goto, L. Belluzzi, J. Štěpán, A. Asensio Ramos, R. Manso Sainz, P. Champey, J. Cirtain, B. De Pontieu, R. Casini, M. Carlsson
Astrophysical Journal Letters, Volume 839, Number 1, L10, **2017**
https://arxiv.org/pdf/1704.03228.pdf

4 Sept - A magnetic **filament** snaking across the sun's southern hemisphere erupted during the late hours of Sept. 4th (starting from approx. 18h UT). CME

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

6 Sept
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

7-8 Sept – **геомагнитная буря** (Dst~-(76-77), **форбуш**; начало - under the influence of a high speed stream from CH687; дальше (*при северной Bz* ?) - a CME associated with a large filament eruption in the southeast quadrant on September 4.

8 Sept

Statistical Approach on Differential Emission Measure of Coronal Holes using the CATCH Catalog
Stephan G. **Heinemann**, Jonas Saqri, Astrid M. Veronig, Stefan J. Hofmeister & Manuela Temmer
Solar Physics volume 296, Article number: 18 (**2021**)
https://arxiv.org/pdf/2102.13396.pdf
https://link.springer.com/content/pdf/10.1007/s11207-020-01759-0.pdf

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

8-10 September
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

14 Sept
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

16 Sept

The magnetic topology of the inverse Evershed flow
A. **Prasad**, M. Ranganathan, C. Beck, D. P. Choudhary and Q. Hu
A&A 662, A25 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/06/aa42585-21.pdf

Fine structure of type III solar radio bursts from Langmuir wave motion in turbulent plasma
Hamish A. S. **Reid**, Eduard P. Kontar
2021
https://arxiv.org/pdf/2103.08424.pdf

Solar type III radio burst time characteristics at LOFAR frequencies and the implications for electron beam transport
Hamish A. S. **Reid**, Eduard P. Kontar
A&A **2018**
https://arxiv.org/pdf/1802.01507.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.
Пулково *«Солнечная и солнечно-земная физика – **2015**», с.125*

17 September
Inference of magnetic fields in the very quiet Sun
M. J. Mart\' inez **González**, A. Pastor Yabar, A. Lagg, …

A&A **2018**
https://arxiv.org/pdf/1804.10089.pdf

18 Sept - A CME was observed off the south pole and parts of the southwest and southeast limbs after the C2 LDE in AR 12415, S21W10.
http://www.spaceweather.com/images2015/19sep15/cme_anim2.gif?PHPSESSID=om35p5to1bkjh0a1men7qnull7

A Statistical Study of the IRIS Observational Signatures of Nanoflares and Non-thermal Particles
Kyuhyoun **Cho**, Paola Testa, Bart De Pontieu, Vanessa Polito
ApJ **2022**
https://arxiv.org/pdf/2211.06832.pdf

Spectropolarimetric Imaging of Metric Type III Solar Radio Bursts
M. M. **Rahman**, Iver H. Cairns & Patrick I. McCauley
Solar Physics volume 295, Article number: 51 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01616-0.pdf

Fast Inversion of Solar Ca II Spectra in Non-Local Thermodynamic Equilibrium
C. **Beck**, S. Gosain, C. Kiessner
ApJ **2019**
https://arxiv.org/pdf/1904.11843.pdf

19 September

Characterization of the umbra-penumbra boundary by the vertical component of the magnetic field -- Analysis of ground-based data from the GREGOR Infrared Spectrograph
P. **Lindner**, R. Schlichenmaier, N. Bello González
A&A **2020**
https://arxiv.org/pdf/2004.09956.pdf

20 Sept – геобуря, Dst ~-75 due to the influence of a coronal hole high speed stream and the arrival of a coronal mass ejection from 18 Sep.
- ~06-07: южная/центральная эрупция
- 18:03: LDE вспышка M2.1/2N, S22W50, AR 2415 и рядом волокно, эрупция, partial haloCME, II тип (1), небольшие мягкие протоны

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

Imaging Spectroscopy of CME-Associated Solar Radio Bursts
Sherry **Chhabra**, Dale E. Gary, Gregg Hallinan, Marin M. Anderso, Bin Chen, Lincoln J. Greenhill, Danny C. Price
ApJ **2020**
https://arxiv.org/pdf/2011.06073.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

21 September

Type III Solar Radio Burst Source Region Splitting Due to a Quasi-Separatrix Layer
Patrick I. **McCauley**, Iver H. Cairns, John Morgan, Sarah E. Gibson, James C. Harding, Colin Lonsdale, Divya Oberoi
ApJ **2017**
https://arxiv.org/pdf/1711.04930.pdf

Observation of a Short Period Quasi-Periodic Pulsation in Solar X-ray, Microwave and EUV Emissions

Pankaj **Kumar**, Valery M. Nakariakov, Kyung-Suk Cho
ApJ **2017**
https://arxiv.org/pdf/1701.02159v1.pdf

21-23 September

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

23 September

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

24-30 Sep

Implications of Flat Optically Thick Microwave Spectra in Solar Flares for Source Size and Morphology
Shaheda Begum **Shaik**, Dale E. Gary
ApJ **2021**
https://arxiv.org/pdf/2107.00192.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

26 September

Photospheric Shear Flows in Solar Active Regions and Their Relation to Flare Occurrence
Sung-Hong **Park**, Jordan A. Guerra, Peter T. Gallagher, Manolis K. Georgoulis, D. Shaun Bloomfield
Solar Phys. **2018**
https://arxiv.org/pdf/1807.07714.pdf

27 Sept

Deep Learning–based Solar Flare Forecasting Model. III. Extracting Precursors from EUV Images

Dezhi **Sun**1,2, Xin Huang3,1, Zhongrui Zhao1,2, and Long Xu1
2023 ApJS 266 8
https://iopscience.iop.org/article/10.3847/1538-4365/acc248/pdf

Spectropolarimetric Inversions of the Ca ii 8542 Å Line in an M-class Solar Flare

D. **Kuridze**1,2,3, V. M. J. Henriques2,4,5, M. Mathioudakis2, L. Rouppe van der Voort4,5, J. de la Cruz Rodríguez6, and M. Carlsson
2018 ApJ 860 10 DOI 10.3847/1538-4357/aac26d

28 Sept – Region 2423 (S09W67) produced an **impulsive M3.6/SF flare** at 03:55
- Region 2422 (S23W28) produced an **impulsive M7/1B flare** at 14:58, S15~180

Dynamic Property and Magnetic Nonpotentiality of Two Types of Confined Solar Flares
Xuchun **Duan**, Ting Li, Qihang Jing
ApJ,933(2),191,**2022**
https://arxiv.org/ftp/arxiv/papers/2207/2207.07004.pdf
https://iopscience.iop.org/article/10.3847/1538-4357/ac75c1/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

Searching for rapid pulsations in solar flare X-ray data
Andrew R. **Inglis**, Laura A. Hayes
ApJ **2024**
https://arxiv.org/pdf/2406.07372

First Solar Radio Burst Observations by the Mexican Array Radio Telescope (MEXART) at 140 MHz
E. **Huipe-Domratcheva**, V. De la Luz, G. A. Casillas-Perez, J. C. Mejia-Ambriz, E. Perez-Leon, J. A. Gonzalez-Esparza, C. Monstein & W. Reeve
Solar Physics volume 297, Article number: 9 (**2022**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01916-z.pdf

First Joint Observations of the Space Weather Events over Mexico
V. **De la Luz**, J.A González-Esparza, M.A. Sergeeva, P. Corona-Romero, L.X. González, J. Mejía-Ambriz,J.F. Valdés-Galicia, E. Aguilar-Rodríguez, M. Rodríguez-Martínez, E. Romero-Hernández, E. Andrade, P. Villanueva, E. Huipe-Domratcheva, G. Cifuentes, E. Hernandez, C. Monstein
Annales Geophysicae (ANGEO) **2018**
https://arxiv.org/pdf/1808.07425.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.
Пулково *«Солнечная и солнечно-земная физика – **2015**», с.125*

29-30 September
Surge-like oscillations above sunspot light bridges driven by magnetoacoustic shocks
Jingwen **Zhang**, Hui Tian, Jiansen He, Linghua Wang
ApJ **2017**
https://arxiv.org/pdf/1702.08585.pdf

30 Sept - **>05 UT:** near the **west limb** as AR 12423 continued to be active and seemed to trigger **an extensive filament eruption;** a wide and well defined **CME**
- В конце дня **небольшие мягкие протоны**

Estimation of Key Sunquake Parameters through Hydrodynamic Modeling and Cross-Correlation Analysis
John T. **Stefan**, Alexander G. Kosovichev
ApJ **2019**
https://arxiv.org/pdf/1911.06839.pdf

1 Oct
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

2 Oct

Comparison of damping models for kink oscillations of coronal loops
Yu **Zhong**,1 Dmitrii Y. Kolotkov , 1,2 Sihui Zhong 1 and Valery M. Nakariakov
Monthly Notices of the Royal Astronomical Society, Volume 525, Issue 4, 2023, Pages 5033–5040,
https://doi.org/10.1093/mnras/stad2598
https://watermark.silverchair.com/stad2598.pdf
https://warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/zhong_y_23.pdf

An overview of HMI off-disk flare observations
Dennis **Fremstad**, Juan Camilo Guevara Gómez, Hugh Hudson, Juan Carlos Martínez Oliveros
A&A **2023**
https://arxiv.org/pdf/2302.13632.pdf

Solar Flare Effects on the Earth's Lower Ionosphere
Laura A. **Hayes**, Oscar S.D. O'Hara, Sophie A. Murray, Peter T. Gallagher
Solar Phys. **2021**
https://arxiv.org/pdf/2109.06558.pdf

3 Oct
Magnetic Imaging of the Outer Solar Atmosphere (MImOSA): Unlocking the driver of the dynamics in the upper solar atmosphere **Review**
H. **Peter**, E. Alsina Ballester, V. Andretta, F. Auchere, L. Belluzzi, A. Bemporad, D. Berghmans, E. Buchlin, A. Calcines, L.P. Chitta, K. Dalmasse, T. del Pino Aleman, A. Feller, C. Froment, R. Harrison, M. Janvier, S. Matthews, S. Parenti, D. Przybylski, S.K. Solanki, J. Stepan, L. Teriaca, J. Trujillo Bueno
Experimental Astronomy (on 28. Jul. 2020). **2021**
Based on a proposal submitted in response to a call for white papers in the Voyage 2050 long-term plan in the ESA science programme.
https://arxiv.org/pdf/2101.01566.pdf

5 Oct
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

7 Oct – **геомагнитная буря** от CIR, associated with CH694, **Dst~-126**

Chapter 8 - An Overview of Science Challenges Pertaining to Our Understanding of Extreme Geomagnetically Induced Currents
Chigomezyo M.**Ngwira***†Antti A.Pulkkinen†
In: Extreme Events in Geospace Origins, Predictability, and Consequences **2018**, Pages 187-208
http://sci-hub.tw/10.1016/B978-0-12-812700-1.00008-X

Intense Geomagnetic Storms Associated with Coronal Holes Under the Weak Solar-Wind Conditions of Cycle 24
S. Watari
Solar Physics February **2018**, 293:23
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1248-y.pdf

9 Oct
Synoptic solar observations of the Solar Flare Telescope focusing on space weather
Yoichiro **Hanaoka**, Takashi Sakurai, Ken'ichi Otsuji, Isao Suzuki, Satoshi Morita
Journal of Space Weather and Space Climate **2020**
https://arxiv.org/pdf/2007.14054.pdf

14 Oct
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

15 Oct

Energy partition in two M-class circular-ribbon flares
Q. M. **Zhang**, J. X. Cheng, L. Feng, Y. Su, L. Lu, Y. Huang, D. Li, T. H. Zhou, J. L. Chen
ApJ **2019**
https://arxiv.org/pdf/1908.02685.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

High-resolution Observations of Sympathetic Filament Eruptions by NVST
Shangwei **Li**1,2, Yingna Su1,5, Tuanhui Zhou1, Adriaan van Ballegooijen3, Xudong Sun4, and Haisheng Ji
2017 ApJ 844 70
http://sci-hub.cc/10.3847/1538-4357/aa78f5

16 Oct **13:25 - Clear harmonic type II burst**

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

Spatially resolved radio signatures of electron beams in a coronal shock
Peijin **Zhang**, Diana Morosan, Anshu Kumari, Emilia Kilpua
A&A **2023**
https://arxiv.org/pdf/2310.08155.pdf

Statistical analysis of circular-ribbon flares
Yanjie **Zhang**, Qingmin Zhang, Dechao Song, Shuting Li, Jun Dai, Zhe Xu, Haisheng Ji
Astrophysical Journal Supplement Series **2022**
https://arxiv.org/pdf/2203.12819.pdf

Spectroscopic observations of a flare-related coronal jet
Q. M. **Zhang**, Z. H. Huang, Y. J. Hou, D. Li, Z. J. Ning, Z. Wu
A&A **2021**
https://arxiv.org/pdf/2101.06629.pdf

LOFAR observations of a jet-driven piston shock in the low solar corona
Ciara A. **Maguire**, Eoin P. Carley, Pietro Zucca, Nicole Vilmer, Peter T. Gallagher
ApJ **2021**
https://arxiv.org/pdf/2101.05569.pdf

Transverse oscillation of a coronal loop induced by a flare-related jet
J. **Dai**, Q. M. Zhang, Y. N. Su, H. S. Ji
A&A 646, A12 (2021)
https://arxiv.org/pdf/2012.07074.pdf

Simultaneous transverse oscillations of a coronal loop and a filament excited by a circular-ribbon flare
Q. M. **Zhang**
A&A 2020
https://arxiv.org/pdf/2008.01451.pdf

Preflare-VLP observed in Halpha emission before the onset of a solar flare
Dong **Li**, Song Feng, Wei Su, Yu Huang
A&A Lett **2020**

Remote coronal dimmings related to a circular-ribbon flare
Q. M. **Zhang**, R. S. Zheng
A&A **2020**
https://arxiv.org/pdf/1912.09618.pdf

Energy partition in two M-class circular-ribbon flares
Q. M. **Zhang**, J. X. Cheng, L. Feng, Y. Su, L. Lu, Y. Huang, D. Li, T. H. Zhou, J. L. Chen
ApJ **2019**
https://arxiv.org/pdf/1908.02685.pdf

Investigation of white-light emission in circular-ribbon flares
Yongliang **Song**, Hui Tian
ApJ **2018**
https://arxiv.org/pdf/1810.02958.pdf

Chromospheric Condensation and Quasi-periodic Pulsations in a Circular-ribbon Flare
Q. M. **Zhang**, D. Li, Z. J. Ning
ApJ **2016**
http://arxiv.org/pdf/1609.03165v1.pdf

Explosive Chromospheric Evaporation in a Circular-ribbon Flare
Q. M. **Zhang**, D. Li, Z. J. Ning, Y. N. Su, H. S. Ji, Y. Guo
ApJ **2016**
http://arxiv.org/pdf/1605.02823v1.pdf

17 Oct

LOFAR observations of radio burst source sizes and scattering in the solar corona

Pearse C. **Murphy**, Eoin P. Carley, Aoife Maria Ryan, Pietro Zucca, Peter T. Gallagher

A&A **2020**

https://arxiv.org/pdf/2011.13735.pdf

18 Oct

Fractal dimensions of umbral and penumbral regions of sunspots

B. **Rajkumar** (1), S. Haque (1), W. Hrudey (2)

Solar Phys. **2017**

https://arxiv.org/ftp/arxiv/papers/1709/1709.08042.pdf

20 Oct

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

22 Oct – >02 UT, SW эрупция, C4.4 LDE, a partial halo CME

- **Позже** небольшие мягкие протоны
- **Есть и другая активность**

23 Oct

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

Fractal dimensions of umbral and penumbral regions of sunspots

B. **Rajkumar** (1), S. Haque (1), W. Hrudey (2)

Solar Phys. **2017**

https://arxiv.org/ftp/arxiv/papers/1709/1709.08042.pdf

24 Oct – Пришло УВ, возмущение от эрупции 22-ого, но Bz северная. Кратковременный форбуш.

27 Oct – >15: a significant SW CME; 14:29 – C3.2 LDE

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

Statistical Study of the Magnetic Field Orientation in Solar Filaments

Yoichiro **Hanaoka**, Takashi Sakurai

2017

https://arxiv.org/pdf/1711.07735.pdf

28-30 Oct

Solar Energetic Electrons Entering the Earth's Cusp/Lobe

Linghua **Wang**1, Qiugang Zong1, Quanqi Shi2, Robert F. Wimmer-Schweingruber3, and Stuart D. Bale4

2021 ApJ 910 12

https://doi.org/10.3847/1538-4357/abdb2b
https://iopscience.iop.org/article/10.3847/1538-4357/abdb2b/pdf

29 Oct – ~03: протоны с западным профилем, J10~20, due to a significant flare behind the SW лимб;
>02:20- радио II(1)/IV(1), a significant CME
- >15: эрупция центрально-южного волокна

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

Predicting well-connected SEP events from observations of solar EUVs and energetic protons
Marlon **Núñez**1*, Teresa Nieves-Chinchilla2 and Antti Pulkkinen2
J. Space Weather Space Clim. **2019**, 9, A27
https://www.swsc-journal.org/articles/swsc/pdf/2019/01/swsc180069.pdf

GLE and Sub-GLE Redefinition in the Light of High-Altitude Polar Neutron Monitors
S. V. **Poluianov**, I. G. Usoskin, A. L. Mishev,M. A. Shea, D. F. Smart
Solar Physics November **2017**, 292:176
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1202-4.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

Chirality and Magnetic Configurations of Solar Filaments
Y. **Ouyang**, Y. H. Zhou, P. F. Chen, C. Fang
ApJ **2016**
https://arxiv.org/pdf/1612.01054v1.pdf

Ground level observations of relativistic solar particles on Oct 29th, 2015: Is it a new GLE on the current solar cycle?
C. R. A. **Augusto**, C. E. Navia, M. N. de Oliveira, A. A. Nepomuceno, A. C. Fauth
2016
http://arxiv.org/pdf/1603.08863v1.pdf

30 Oct
Large-Scale Solar Magnetic Fields Observed with the Infrared Spectro-Polarimeter IRmag at the National Astronomical Observatory of Japan: Comparison of Measurements Made in Different Spectral Lines and Observatories
M. L. **Demidov**, Y. Hanaoka, T. Sakurai & X. F. Wang
Solar Physics volume 295, Article number: 54 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01620-4.pdf

1 Nov - ~22:30: медленно дрейфующий радиоконтинуум

Statistics of Solar White-Light Flares I: Optimization of Identification Methods and Application
Yingjie **Cai**, Yijun Hou, Ting Li, Jifeng Liu
ApJ **2024**
https://arxiv.org/pdf/2408.05381

3 Nov

Fractal dimensions of umbral and penumbral regions of sunspots
B. **Rajkumar** (1), S. Haque (1), W. Hrudey (2)
Solar Phys. **2017**
https://arxiv.org/ftp/arxiv/papers/1709/1709.08042.pdf

3-4 Nov - minor geomagnetic storm Dst~-40 nT under the influence of effects from CH697

3-5 Nov

Review of Image Processing Methods in Solar Photospheric Data Analyzes
Mohsen **Javaherian**, Zahra Eskandari
Iranian Journal of Astronomy and Astrophysics, 10(1), 77-109 (**2023**)
https://arxiv.org/pdf/2310.00380.pdf

Empirical Scaling Relations for the Photospheric Magnetic Elements of the Flaring and Non-Flaring Active Regions
M.A.**Moradhaseli**, M.Javaherian, N.Fathalian, H.Safari
Acta Astronomica, vol 71, no 2, p. 163-188, **2021**
https://arxiv.org/pdf/2109.12924.pdf

4 Nov – 12:03: **очень импульсная** M2.5 западная (N17W67)вспышка, спрей
- 13:52: центральная (N09W04) M3.7/2B **LDE вспышка/эрупция**, **волокно на 304 A**, S5~740, II(2)/IV(1), partial halo CME, очень слабые протоны
- 'Solar storm' grounds Swedish air traffic
http://www.thelocal.se/20151104/solar-storm-grounds-swedish-air-traffic

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

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

Evolution of the Ratio of Mg II Intensities During Solar Flares
Soumya **Roy**, Durgesh Tripathi
ApJ **2024**
https://arxiv.org/pdf/2402.11189.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

Toroidal Miller-Turner and Soloviev CME models in EUHFORIA: I. Implementation
L. **Linan**, A. Maharana, S. Poedts, B. Schmieder, R. Keppens
A&A **2023**
https://arxiv.org/pdf/2310.17239.pdf

Type II radio bursts and their association with coronal mass ejections in solar cycles 23 and 24
Anshu **Kumari**, Diana E. Morosan, E. K. J. Kilpua, F. Daei
A&A **2023**
https://arxiv.org/pdf/2305.18992.pdf

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

Quasi-periodic pulsations in solar flares: a key diagnostic of energy release on the Sun
Andrew **Inglis**, Laura Hayes, Silvina Guidoni, James McLaughlin, Valery M. Nakariakov, et al.
White paper submitted to the Decadal Survey for Solar and Space Physics (Heliophysics) 2024-2033 **2023**
https://arxiv.org/abs/2302.11549

Extreme solar events **Review**
Edward W. **Cliver**, Carolus J. Schrijver, Kazunari Shibata & Ilya G. Usoskin
Living Reviews in Solar Physics volume 19, Article number: 2 (**2022**)
https://link.springer.com/content/pdf/10.1007/s41116-022-00033-8.pdf

ORFEES – a radio spectrograph for the study of solar radio bursts and space weather applications
Abdallah **Hamini**1,2, Gabriel Auxepaules2, Lionel Birée3, Guy Kenfack2, Alain Kerdraon1, Karl-Ludwig Klein1,2*, Patrice Lespagnol2, Sophie Masson1,2, Lucile Coutouly2, Christian Fabrice2 and Renaud Romagnan1
J. Space Weather Space Clim. **2021**, 11, 57
https://www.swsc-journal.org/articles/swsc/pdf/2021/01/swsc210035.pdf
https://doi.org/10.1051/swsc/2021039

Quasi-Periodic Pulsations in Solar and Stellar Flares: A Review of Underpinning Physical Mechanisms and Their Predicted Observational Signatures
I. V. **Zimovets**, J. A. McLaughlin, A. K. Srivastava, D. Y. Kolotkov, A. A. Kuznetsov, E. G. Kupriyanova, I.-H. Cho, A. R. Inglis, F. Reale, D. J. Pascoe, H. Tian, D. Yuan, D. Li & Q. M. Zhang
Space Science Reviews volume 217, Article number: 66 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11214-021-00840-9.pdf
https://doi.org/10.1007/s11214-021-00840-9

Trends and Characteristics of High-Frequency Type II Bursts Detected by CALLISTO Spectrometers
A.C.**Umuhire** (1), J.Uwamahoro (2), K. Sasikumar Raja (3), A.Kumar (4), C.Monstein (5)
Advances In Space Research **2021**
https://arxiv.org/pdf/2106.09310.pdf

Quasi-Periodic Particle Acceleration in a Solar Flare
Brendan P. **Clarke**, Laura A. Hayes, Peter T. Gallagher, Shane A. Maloney, Eoin P. Carley
ApJ **2021**
https://arxiv.org/pdf/2102.04267.pdf

Erupting Magnetic Flux Rope Affects Running Penumbral Waves
Wensi **Wang**, Rui Liu
A&A **2021**
https://arxiv.org/pdf/2101.04915.pdf

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

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

pyCallisto: A Python Library To Process The CALLISTO Spectrometer Data
Ravindra **Pawase**, K. Sasikumar Raja
ApJ **2020**
https://arxiv.org/pdf/2006.16300.pdf

Comprehensive Characterization of Solar Eruptions With Remote and In-Situ Observations, and Modeling: The Major Solar Events on 4 November 2015
Iver H. **Cairns**, Kamen A. Kozarev, Nariaki V. Nitta, Neus Agueda, Markus Battarbee, Eoin P. Carley, Nina Dresing, Raul Gomez-Herrero, Karl-Ludwig Klein, David Lario, Jens Pomoell, Carolina Salas-Matamoros, Astrid M. Veronig, Bo Li, Patrick McCauley
Solar Phys. **295**, Article number: 32 **2020** **File**
https://arxiv.org/pdf/1910.03319.pdf
https://link.springer.com/content/pdf/10.1007/s11207-020-1591-7.pdf

Estimation of the physical parameters of a CME at high coronal heights using low frequency radio observations
Surajit **Mondal**, Divya Oberoi, Angelos Vourlidas
ApJ **2019**
https://arxiv.org/pdf/1909.12041.pdf

Observations of a Footpoint Drift of an Erupting Flux Rope
Alena **Zemanova**, Jaroslav Dudik, Guillaume Aulanier, Julia K. Thalmann, Peter Gomory
ApJ **2019**
https://arxiv.org/pdf/1908.02082.pdf

Solar radio bursts as a tool for space weather forecasting
Klein, Karl-Ludwig; Matamoros, Carolina Salas; Zucca, Pietro
Comptes rendus - Physique, Volume 19, Issue 1-2, p. 36-42, 2018.
https://reader.elsevier.com/reader/sd/pii/S1631070518300148?token=D537F952710CF6363FBFFAA0FCDAD2C023FF41B2CE662268302A75A4269C47C6EF93BD3474EEE4AA2545C31B0BFDD8D1
https://www.sciencedirect.com/science/article/pii/S1631070518300148?via%3Dihub

GPU-based high-performance imaging for Mingantu spectral radioheliograph.
Mei Y, Wang F, Wang W, Chen L, Liu Y, Deng H, Dai W, Liu C, Yan Y.
Publications of the Astronomical Society of the Pacific (PASP). **2018**. 130(1): 014503.
https://iopscience.iop.org/article/10.1088/1538-3873/aa9608/pdf

Solar radio emission as a disturbance of aeronautical radionavigation
C. **Marqué**, K.-L. Klein, C. Monstein, H. Opgenoorth, A. Pulkkinen, S. Buchert, S. Krucker, R. Van Hoof, P. Thulesen
Journal of Space Weather and Space Climate (JSWSC), **2018**
https://arxiv.org/pdf/1808.06878.pdf

Analysis of type II and type III solar radio bursts
Wijesekera, J. V.; Jayaratne, K. P. S. C.; Adassuriya, J.
Journal of Physics: Conference Series, Volume 1005, Issue 1, article id. 012046 (**2018**).
sci-hub.se/10.1088/1742-6596/1005/1/012046

A Solar Eruption with Relatively Strong Geo-effectiveness Originating from Active Region Peripheral Diffusive Polarities

Rui **Wang**, Ying D. Liu, Huidong Hu, Xiaowei Zhao
2018 *ApJ* **863** 81
https://arxiv.org/pdf/1807.03047.pdf

Solar radio burst associated with the falling bright EUV blob
Marian **Karlicky**, Alena Zemanova, Jaroslav Dudik, Krzysztof Radiszewski
Astrophysical Journal Letters, Volume 854, Issue 2, article id. L29, 6 pp. (**2018**)
https://arxiv.org/pdf/1804.06206.pdf

Properties of a Small-scale Short-duration Solar Eruption with a Driven Shock
Beili **Ying**, Li Feng, Lei Lu, Jie Zhang, Jasmina Magdalenic, Yingna Su, Yang Su, Weiqun Gan
2018
https://arxiv.org/pdf/1803.00333.pdf

Solar Radio Burst Associated with the Falling Bright EUV Blob
Marian **Karlický**1, Alena Zemanová1, Jaroslav Dudík1, and Krzysztof Radziszewski2
2018 ApJL 854 L29

Unambiguous Evidence of Filament Splitting-Induced Partial Eruptions
X. **Cheng**, B. Kliem, M. D. Ding
ApJ **2018**
https://arxiv.org/pdf/1802.04932.pdf

Buildup of a highly twisted magnetic flux rope during a solar eruption
Wang, W., Liu, R., Wang, Y., et al.
2017, Nature Communications, 8, 1330
https://www.nature.com/articles/s41467-017-01207-x.pdf

Guided flows in coronal magnetic flux tubes
A. **Petralia**, F. Reale, P. Testa
A&A **2017**
https://arxiv.org/pdf/1711.04641.pdf

Flare Ribbons Approach Observed by the Interface Region Imaging Spectrograph and the Solar Dynamics Observatory
Ting **Li**, Jun Zhang, Yijun Hou
ApJ **2017**
https://arxiv.org/pdf/1709.03216.pdf

New Evidence for a Coronal Mass Ejection-driven High Frequency Type II Burst near the Sun
Anshu **Kumari**1, R. Ramesh1, C. Kathiravan1, and N. Gopalswamy
2017 ApJ 843 10
http://sci-hub.cc/10.3847/1538-4357/aa72e7

The impact of the November 4th 2015 event on air traffic radars
Christophe **Marque**_y1, Karl Ludwig Klein2, Christian Monstein3, Hermann Opgenoorth4, Stephan Buchert4, Antti Pulkkinen5, and S□am Krucker6
CESRA **2016**, p.81
http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v3.pdf

4-5 Nov

Empirical Scaling Relations for the Photospheric Magnetic Elements of the Flaring and Non-Flaring Active Regions
M.A.**Moradhaseli**, M.Javaherian, N.Fathalian, H.Safari

Acta Astronomica, vol 71, no 2, p. 163-188, **2021**
https://arxiv.org/pdf/2109.12924.pdf

Solar Energetic Electrons Entering the Earth's Cusp/Lobe
Linghua **Wang**1, Qiugang Zong1, Quanqi Shi2, Robert F. Wimmer-Schweingruber3, and Stuart D. Bale4
2021 ApJ 910 12
https://doi.org/10.3847/1538-4357/abdb2b
https://iopscience.iop.org/article/10.3847/1538-4357/abdb2b/pdf

5 Nov

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

5-7 Nov
Precursory Signs of Large Forbush Decreases
M. **Papailiou**, M. Abunina, H. Mavromichalaki, A. Belov, A. Abunin, E. Eroshenko & V. Yanke
Solar Physics volume 296, Article number: 100 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01844-y.pdf
https://doi.org/10.1007/s11207-021-01844-y

6 Nov

Toroidal Miller-Turner and Soloviev CME models in EUHFORIA: I. Implementation
L. **Linan**, A. Maharana, S. Poedts, B. Schmieder, R. Keppens
A&A **2023**
https://arxiv.org/pdf/2310.17239.pdf

20 Years of ACE Data: How Superposed Epoch Analyses Reveal Generic Features in Interplanetary CME Profiles **Review**
F. **Regnault**, M. Janvier, P. Démoulin, F. Auchère, A. Strugarek, S. Dasso, C. Noûs
JGR **2020**
https://arxiv.org/pdf/2011.05050.pdf

6-7 Nov – геомагнитная буря (Dst~-88 nT) и форбуш (~3%) от LDE эрупции 4-ог**о**

Ensemble Modeling of Radiation Belt Electron Flux Decay Following a Geomagnetic Storm: Dependence on Key Input Parameters
Man **Hua**,Jacob Bortnik,Adam C. Kellerman,Enrico Camporeale,Qianli Ma
Space Weather **2022**
https://doi.org/10.1029/2022SW003051
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2022SW003051

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

7-15 Nov
Modelling the magnetic structure of a large-scale horse-shoe-like filament in a decaying and diffuse active region

Kaifeng **Kang**, Yang Guo, Ilia I. Roussev, Rony Keppens, Jun Lin
MNRAS Volume 518, Issue 1, January 2023, Pages 388–404, **2022**
https://arxiv.org/pdf/2211.04842.pdf
https://doi.org/10.1093/mnras/stac3156

9 Nov – **13:12: M3.9/2B LDE вспышка, S11E41, эрупция, S3-5~680 sfu, II(2)/IV, яркий CME,протоны J10~2 pfu**

Trieste CALLISTO station setup and observations of solar radio bursts
Marassi, Alessandro ; Monstein, Christian
Advances in Space Research, Volume 69, Issue 6, p. 2589-2600., **2022**
https://doi.org/10.1016/j.asr.2021.12.043
CESRA #3339 Jun **2022** https://www.astro.gla.ac.uk/users/eduard/cesra/?p=3339 **2015-11-09**

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

Analysis of type II and type III solar radio bursts
Wijesekera, J. V.; Jayaratne, K. P. S. C.; Adassuriya, J.
Journal of Physics: Conference Series, Volume 1005, Issue 1, article id. 012046 (**2018**).
sci-hub.se/10.1088/1742-6596/1005/1/012046

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

11 Nov

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

Identification of Coronal Holes on AIA/SDO images using unsupervised Machine Learning
Fadil **Inceoglu**, Yuri Y. Shprits, Stephan G. Heinemann, Stefano Bianco
ApJ **2022**
https://arxiv.org/pdf/2203.10491.pdf

Characterising coronal turbulence using snapshot imaging of radio bursts in 80-200 MHz
Atul **Mohan**
A&A **2021**
https://arxiv.org/pdf/2110.10073.pdf

Spectropolarimetric Imaging of Metric Type III Solar Radio Bursts
M. M. **Rahman**, Iver H. Cairns & Patrick I. McCauley
Solar Physics volume 295, Article number: 51 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01616-0.pdf

11-12 nov
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

11-17 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**
https://arxiv.org/pdf/1907.10878.pdf

12 Nov

Large-amplitude quasi-periodic pulsations as evidence of impulsive heating in hot transient loop systems detected in the EUV with SDO/AIA
Fabio **Reale**, Paola Testa, Antonino Petralia, Dmitrii Y. Kolotkov
ApJ **2019**
https://arxiv.org/pdf/1909.02847.pdf

13-18 Nov

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

14 Nov

Modelling the magnetic structure of a large-scale horse-shoe-like filament in a decaying and diffuse active region
Kaifeng **Kang**, Yang Guo, Ilia I. Roussev, Rony Keppens, Jun Lin
MNRAS Volume 518, Issue 1, January 2023, Pages 388–404, **2022**
https://arxiv.org/pdf/2211.04842.pdf
https://doi.org/10.1093/mnras/stac3156

The impact of the November 4th 2015 event on air traffic radars
Christophe **Marque**_y1, Karl Ludwig Klein2, Christian Monstein3, Hermann Opgenoorth4, Stephan Buchert4, Antti Pulkkinen5, and S□am Krucker6
CESRA **2016**, p.81
http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v3.pdf

14-17 Nov

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

15-16 Nov, >22 –крупная эрупция большого, circular SW волокна (Extensive filament eruptions), This event triggered other eruptions in nearby filaments, the total area affected by the events was large. 304 A, C1 LDE; сложный многокомпонентный CME; на метровых спектрах практически ничего нет.

External reconnection and resultant reconfiguration of overlying magnetic fields during sympathetic eruptions of two filaments
Y. J. **Hou**, T. Li, Z. P. Song, J. Zhang
A&A **2020**
https://arxiv.org/pdf/2006.06191.pdf

Sympathetic eruptions of two filaments with an identifiable causal link observed by the Solar Dynamics Observatory
Zhiping **Song**, Yijun Hou, Jun Zhang, Peng Wang
ApJ **2020**
https://arxiv.org/pdf/2002.07979.pdf

17-22 Nov
On the Hemispheric Bias Seen in Vector Magnetic Field Data
Yang **Liu**, Ana Belén Griñón-Marín, Jon T. Hoeksema, Aimee A. Norton & Xudong Sun
Solar Physics volume 297, Article number: 17 (**2022**)
https://link.springer.com/content/pdf/10.1007/s11207-022-01949-y.pdf

22 Nov, >07 – A CME was observed off the east limb following a SE filament eruption, 304 A

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

FINE STRUCTURE EVENTS IN MICROWAVE EMISSION DURING SOLAR MINIMUM
Chengming **Tan**, Baolin Tan, Yihua Yan, Wei Wang, Linjie Chen, Fei Liu, Yujiang Dou
Solar-Terrestrial Physics. **2019**. Vol. 5. Iss. 2. P. 3–8.
Solnechno-zemnaya fizika, 2019. Vol. 5. Iss. 2. P. 4–10
https://naukaru.ru/en/storage/view/36892

23 Nov
Forecasting the Remaining Duration of an Ongoing Solar Flare
Jeffrey W. **Reep**, Will T. Barnes
Space Weather **2021**
https://arxiv.org/pdf/2103.03957.pdf

28 Nov
Unsigned magnetic flux as a proxy for radial-velocity variations in Sun-like stars
R.D. **Haywood**, T.W. Milbourne, S.H. Saar, A. Mortier, D. Phillips, D. Charbonneau, A. Collier Cameron, H.M. Cegla, N. Meunier, M.L. Palumbo III
ApJ **2020**
https://arxiv.org/pdf/2005.13386.pdf

2-8 Dec - A large recurrent northern hemisphere coronal hole (CH704) with a very long trans equatorial extension was in an Earth facing position.

3 Dec

Detection of weak ubiquitous impulsive nonthermal emissions from the solar corona
Rohit **Sharma**, Divya Oberoi, Marina Battaglia, Sam Krucker
ApJ **2022**
https://arxiv.org/pdf/2208.07147.pdf

Propagation Effects in Quiet Sun Observations at Meter Wavelengths
Rohit **Sharma**, Divya Oberoi

ApJ **2020**
https://arxiv.org/pdf/2009.10604.pdf

4 Dec

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

On the relation between transition region network jets and coronal plumes
Youqian **Qi**, Zhenghua Huang, Lidong Xia, Bo Li, Hui Fu, Weixin Liu, Mingzhe Sun, Zhenyong Hou
Solar Phys. **2019**
https://arxiv.org/pdf/1906.10353.pdf

Critical magnetic field strengths for solar coronal plumes in quiet regions and coronal holes?
Ellis A. **Avallone**, Sanjiv K. Tiwari, Navdeep K. Tiwari, Ronald L. Moore, Amy Winebarger
ApJ **2018**
https://arxiv.org/pdf/1805.11188.pdf

6-9 Dec
Formation of Large Scale Coronal Loops Interconnecting Two Active Regions Through Gradual Magnetic Reconnection and Associated Heating Process
Guohui **Du**, Yao Chen, Chunming Zhu, Chang Liu, Lili Ge, Bing Wang, Chuanyang Li, Haimin Wang
2018
https://arxiv.org/pdf/1805.04831.pdf

08-09 Dec
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

9 Dec

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

First direct observation of a torsional Alfvén oscillation at coronal heights
P. **Kohutova**, E. Verwichte, C. Froment
A&A **2019**
https://arxiv.org/pdf/1912.03954.pdf

Formation of coronal rain triggered by impulsive heating associated with magnetic reconnection
P. **Kohutova**, E. Verwichte, C. Froment
A&A **2019**
https://arxiv.org/pdf/1910.07746.pdf

Automated Spatiotemporal Analysis of Fibrils and Coronal Rain Using the Rolling Hough Transform
Thomas **Schad**

Solar Physics September **2017**, 292:132
http://iopscience.iop.org/article/10.1088/0004-637X/739/2/67/pdf
https://arxiv.org/pdf/1809.03635.pdf

Neutral Helium Triplet Spectroscopy of Quiescent Coronal Rain with Sensitivity Estimates for Spectropolarimetric Magnetic Field Diagnostics
Thomas A. **Schad**
ApJ **2018**
https://arxiv.org/pdf/1809.02252.pdf

Evidence for precursors of the coronal hole jets in solar bright points
Salome R. **Bagashvili**, Bidzina M. Shergelashvili, Darejan R. Japaridze, Vasil Kukhianidze, Stefaan Poedts, Teimuraz V. Zaqarashvili, Maxim L. Khodachenko, Patrick De Causmaecker
ApJL **2018**
https://arxiv.org/pdf/1803.00551.pdf

10 Dec
Improved detection of farside solar active regions using deep learning
T. **Felipe**, A. Asensio Ramos
A&A **2019**
https://arxiv.org/pdf/1911.01099.pdf

Reflection Of Propagating Slow Magneto-acoustic Waves In Hot Coronal Loops : Multi-instrument Observations and Numerical Modelling
Sudip **Mandal**, Ding Yuan, Xia Fang, Dipankar Banerjee, Vaibhav Pant, Tom Van Doorsselaere
ApJ **2016**
http://arxiv.org/pdf/1604.08133v1.pdf

11 Dec
An extreme ultraviolet wave associated with the possible expansion of sheared arcades
Yihan **Liu**, Ruisheng Zheng, Liang Zhang, Hengyuan Wei, Ze Zhong, Shuhong Yang, Yao Chen
A&A **2023**
https://arxiv.org/pdf/2304.14862.pdf

11-12 Dec
Formation of Large Scale Coronal Loops Interconnecting Two Active Regions Through Gradual Magnetic Reconnection and Associated Heating Process
Guohui **Du**, Yao Chen, Chunming Zhu, Chang Liu, Lili Ge, Bing Wang, Chuanyang Li, Haimin Wang
2018
https://arxiv.org/pdf/1805.04831.pdf

13 Dec , 10:34 – **SE C5.3 LDE (S14E36) вспышка и заметная эрупция**

14-16 Dec
Measurements and Simulations of the Geomagnetically Induced Currents in Low-latitude Power Networks During Geomagnetic Storms
J. J. **Zhang** , Y. Q. Yu , C. Wang, D. Du , D. Wei , L. G. Liu
Space Weather **Volume18, Issue8** e2020SW002549 **2020**
https://doi.org/10.1029/2020SW002549
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002549

15-22 Dec
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

16 Dec - **Two likely Earth directed CMEs** were observed during the day. The first was observed after the **C6 LDE** in AR 12468 while the second was caused by an **extensive filament eruption** from near the equator stretching to the southern polar crown filament.

ALMA small-scale features in the quiet Sun and active regions
R. **Brajsa**, I. Skokic, D. Sudar, A. O. Benz, S. Krucker, H.-G. Ludwig, S. H. Saar, C. L. Selhorst
A&A **2021**
https://arxiv.org/pdf/2105.03644.pdf

First solar observations with ALMA
Maria **Loukitcheva**
Advances in Space Research **2018**
https://arxiv.org/pdf/1809.00430.pdf

Multi-Spacecraft Observations of the Rotation and Non-Radial Motion of a CME Flux Rope causing an intense geomagnetic storm
Yi A. **Liu**, Ying D. Liu, Huidong Hu, Rui Wang, Xiaowei Zhao
ApJ **2018**

Solar ALMA observations: constraining the chromosphere above sunspots
Maria **Loukitcheva**, Kazumasa Iwai, Sami K. Solanki, Stephen M. White, Masumi Shimojo
ApJ **2017**
https://arxiv.org/pdf/1710.03812.pdf

ALMA Discovery of Solar Umbral Brightness Enhancement at λ=3 mm
Kazumasa **Iwai**, Maria Loukitcheva, Masumi Shimojo, Sami K. Solanki, Stephen M. White
ApJL **2017**
https://arxiv.org/pdf/1705.03147.pdf

16-20 Dec

Centre to limb brightness variations from ALMA full disk solar images
Davor **Sudar**, Roman Brajša, Ivica Skokić, Arnold O. Benz
Solar Phys. **2019**
https://arxiv.org/pdf/1909.08952.pdf
Solar polar brightening and radius at 100 and 230 GHz observed by ALMA
Caius L. **Selhorst**, Paulo J. A. Simões, Roman Brajša, Adriana Valio, C. G. Giménez de Castro, Joaquim E. R. Costa, Fabian Menezes, Jean Pierre Rozelot, Antonio S. Hales, Kazumasa Iwai, Stephen White
ApJ **2018**
https://arxiv.org/pdf/1811.12158.pdf

Magnetic Clouds: Solar Cycle Dependence, Sources, and Geomagnetic Impacts
Y. **Li**, J. G. Luhmann, B. J. Lynch
Solar Phys. **2018**
https://arxiv.org/ftp/arxiv/papers/1808/1808.04078.pdf

Center-to-limb observations of the Sun with ALMA
C. E. **Alissandrakis**, S. Patsourakos, A. Nindos, T. S. Bastian
A&A **2017**
https://arxiv.org/pdf/1705.09008.pdf

17 Dec

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

A Genetic Algorithm to model Solar Radio Active Regions from 3D Magnetic Field Extrapolations
Alexandre José de Oliveira e **Silva**, Caius L. Selhorst, Joaquim E. R. Costa, Paulo J. A. Simões, C. Guillermo Giménez de Castro, Sven Wedemeyer, Stephen M. White, Roman Brajša, Adriana Valio
Frontiers in Astronomy and Space Sciences **2022**
https://arxiv.org/pdf/2205.03385.pdf

Subterahertz Radius and Limb Brightening of the Sun Derived from SST and ALMA
Fabian **Menezes**, Caius L. Selhorst, Carlos Guillermo Giménez de Castro, Adriana Valio
MNRAS **2021**
https://arxiv.org/pdf/2111.15261.pdf

A study of sunspot 3 minute oscillations using ALMA and GST
Yi **Chai**, Dale E. Gary, Kevin P. Reardon, Vasyl Yurchyshyn
ApJ **2021**
https://arxiv.org/pdf/2111.05812.pdf

First Spectral Analysis of a Solar Plasma Eruption Using ALMA
Andrew S. **Rodger**1, Nicolas Labrosse1, Sven Wedemeyer2,3, Mikolaj Szydlarski2,3, Paulo J. A. Simões1,4,5, and Lyndsay Fletcher1
2019 ApJ 875 163
https://iopscience.iop.org/article/10.3847/1538-4357/aafdfb/pdf

Magnetic Field Dynamics and Varying Plasma Emission in Large-scale Coronal Loops
S. **Şahin**1, V. Yurchyshyn2, P. Kumar3, A. Kilcik1, K. Ahn2, and X. Yang2
2019 ApJ 873 75
https://doi.org/10.3847/1538-4357/ab04aa

First Spectral Analysis of a Solar Plasma Eruption Using ALMA
Andrew S. **Rodger**, Nicolas Labrosse, Sven Wedemeyer, Mikolaj Szydlarski, Paulo J.A. Simões, Lyndsay Fletcher
ApJ **2019**
https://arxiv.org/pdf/1902.01319.pdf

First solar observations with ALMA
Maria **Loukitcheva**
Advances in Space Research **2018**
https://arxiv.org/pdf/1809.00430.pdf

Observing the Sun with the Atacama Large Millimeter-submillimeter Array (ALMA): Fast-Scan Single-Dish Mapping
S.M. **White**, K. Iwai, N.M.Phillips, R.E. Hills, A. Hirota,
Solar Phys. **2017**
https://arxiv.org/pdf/1705.04766.pdf

First ALMA Observation of a Plasmoid Ejection from an X-ray Bright Point

M. **Shimojo**, H. S. Hudson, S. M. White, T. S. Bastian, K. Iwai
ApJL **2017**
https://arxiv.org/pdf/1704.04881.pdf

Observing the Sun with Atacama Large Millimeter/submillimeter Array (ALMA): High Resolution Interferometric Imaging
M. **Shimojo**, T.S. Bastian, A.S. Hales, S.M. White, K. Iwai, R.E. Hills, A. Hirota, N.M. Phillips, T. Sawada, P. Yagoubov, G. Siringo, S. Asayama, M. Sugimoto, R. Brajsa, I. Skokic, M. Barta, S. Kim, I. de Gregorio, S.A. Corder, H.S. Hudson, S. Wedemeyer, D.E. Gary, B. De Pontieu, M. Loukicheva, G.D. Fleishman, B. Chen, A. Kobelski, Y. Yan
Solar Phys. **2017**
https://arxiv.org/pdf/1704.03236.pdf

18 Dec

Science development study for the Atacama Large Aperture Submillimeter Telescope (AtLAST) - Solar and stellar observations
Sven **Wedemeyer**, Miroslav Barta, Roman Brajsa, Yi Chai, Joaquim Costa, Dale Gary, +++
https://arxiv.org/pdf/2403.00920.pdf
Open Research Europe as part of a collection on the Atacama Large Aperture Submillimeter Telescope (AtLAST) **2024**
https://arxiv.org/pdf/2403.00920.pdf

Solar Observing with the Atacama Large Millimeter-Submillimeter Array **Review**
Timothy **Bastian**, Masumi Shimojo, Miroslav Barta, Stephen White, Kazumasa Iwai
Frontiers in Astronomy and Space Science **2022**
https://arxiv.org/pdf/2209.01659.pdf

The quiet Sun at mm Wavelengths as Seen by ALMA
Costas **Alissandrakis**, Timothy Bastian, Roman Brajša
Frontiers in Astronomy and Space Science **2022**
https://arxiv.org/pdf/2209.02569.pdf

ALMA small-scale features in the quiet Sun and active regions
R. **Brajsa**, I. Skokic, D. Sudar, A. O. Benz, S. Krucker, H.-G. Ludwig, S. H. Saar, C. L. Selhorst
A&A **2021**
https://arxiv.org/pdf/2105.03644.pdf

The solar chromosphere at millimetre and ultraviolet wavelengths. I. Radiation temperatures and a detailed comparison
Shahin **Jafarzadeh**, Sven Wedemeyer, Mikolaj Szydlarski, Bart De Pontieu, Reza Rezaei, Mats Carlsson
A&A **2019**
https://arxiv.org/pdf/1901.05763.pdf

Observations of the solar chromosphere with ALMA and comparison with theoretical models
R. **Brajša**, D. Sudar, I. Skokic, A. O. Benz, M. Kuhar, A. Kobelski, S. Wedemeyer, S. M. White, H.-G. Ludwig, M. Temmer, S. H. Saar, C. L. Selhorst
The 20th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, July 29 - Aug 3 2018, Boston / Cambridge, USA **2018**
https://arxiv.org/pdf/1812.07293.pdf

First analysis of solar structures in 1.21 mm full-disc ALMA image of the Sun
R. **Brajša**, D. Sudar, A. O. Benz, I. Skokić, M. Bárta, B. De Pontieu, S. Kim, A. Kobelski, M. Kuhar, M. Shimojo, S. Wedemeyer, S. White, P. Yagoubov, Y. Yan
A&A 613, A17 **2017**
https://arxiv.org/pdf/1711.06130.pdf

A First Comparison of Millimeter Continuum and Mg II Ultraviolet Line Emission from the Solar Chromosphere
T. S. **Bastian**, G. Chintzoglou, B. De Pontieu, M. Shimojo, D. Schmit, J. Leenaarts, M. Loukitcheva
2017
https://arxiv.org/pdf/1706.04532.pdf

Observing the Sun with Atacama Large Millimeter/submillimeter Array (ALMA): High Resolution Interferometric Imaging
M. **Shimojo**, T.S. Bastian, A.S. Hales, S.M. White, K. Iwai, R.E. Hills, A. Hirota, N.M. Phillips, T. Sawada, P. Yagoubov, G. Siringo, S. Asayama, M. Sugimoto, R. Brajsa, I. Skokic, M. Barta, S. Kim, I. de Gregorio, S.A. Corder, H.S. Hudson, S. Wedemeyer, D.E. Gary, B. De Pontieu, M. Loukicheva, G.D. Fleishman, B. Chen, A. Kobelski, Y. Yan
Solar Phys. **2017**
https://arxiv.org/pdf/1704.03236.pdf

19 Dec

Spectral Features of the Solar Transition Region and Chromospheric Lines at Flare Ribbons Observed with IRIS
L. F. **Wang**1,2, Y. Li3,4, Q. Li3,4, X. Cheng1,2, and M. D. Ding1,2
2023 ApJS 268 62
https://iopscience.iop.org/article/10.3847/1538-4365/acf127/pdf
https://arxiv.org/pdf/2308.11275.pdf

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

Different Signatures of Chromospheric Evaporation in Two Solar Flares Observed with IRIS
Y. **Li**1,2, M. D. Ding3, J. Hong3, H. Li1, and W. Q. Gan1
2019 ApJ 879 30
https://iopscience.iop.org/article/10.3847/1538-4357/ab245a/pdf

Propagating wave in active region-loops, located over the solar disk observed by the Interface Region Imaging Spectrograph
B. **Zhang**, Y. J. Hou, J. Zhang
A&A 611, A47 **2018**
https://arxiv.org/pdf/1801.02880.pdf

19-20 Dec
Measurements and Simulations of the Geomagnetically Induced Currents in Low-latitude Power Networks During Geomagnetic Storms
J. J. **Zhang** , Y. Q. Yu , C. Wang, D. Du , D. Wei , L. G. Liu
Space Weather **Volume18, Issue8** e2020SW002549 **2020**
https://doi.org/10.1029/2020SW002549
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002549

20 Dec – **a major geostorm (Dst~-170) and Forbush** under the influence of CMEs of 16 Dec

Magnetic Clouds: Solar Cycle Dependence, Sources, and Geomagnetic Impacts
Y. **Li**, J. G. Luhmann, B. J. Lynch
Solar Physics October **2018**, 293:135

https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1356-8.pdf

Observing the Sun with Atacama Large Millimeter/submillimeter Array (ALMA): High Resolution Interferometric Imaging
M. **Shimojo**, T.S. Bastian, A.S. Hales, S.M. White, K. Iwai, R.E. Hills, A. Hirota, N.M. Phillips, T. Sawada, P. Yagoubov, G. Siringo, S. Asayama, M. Sugimoto, R. Brajsa, I. Skokic, M. Barta, S. Kim, I. de Gregorio, S.A. Corder, H.S. Hudson, S. Wedemeyer, D.E. Gary, B. De Pontieu, M. Loukicheva, G.D. Fleishman, B. Chen, A. Kobelski, Y. Yan
Solar Phys. **2017**
https://arxiv.org/pdf/1704.03236.pdf

Interplanetary and ionosphere scintillation produced by ICME 20 December 2015
I. V. **Chashei**, S. A. Tyul'bashev, V. I. Shishov, I. A. Subaev
Space Weather Volume 14, Issue 9 September **2016** Pages 682–688

22 Dec
Total reflection of a flare-driven quasi-periodic EUV wave train at a coronal hole boundary
Xinping **Zhou**, Yuandeng Shen, Zehao Tang, Chengrui Zhou, Yadan Duan, Song Tang
A&A **2022**
https://arxiv.org/pdf/2112.15098.pdf

22 Dec-2 Jan 2016
Effects of optimisation parameters on data-driven magnetofrictional modelling of active regions
A. **Kumari**, D. J. Price, F. Daei, J. Pomoell, E. K. J. Kilpua
A&A **2023**
https://arxiv.org/pdf/2305.16080.pdf

23 Dec – 00:40: AR 2473 erupted, producing an M4-class flare, S22E63. II/2, IV/2

Compound eruptions of twin flux ropes in a solar active region
Ruisheng **Zheng**, Liang Zhang, Bing Wang, Xiangliang Kong, Hongqiang Song, Zhao Wu, Shiwei Feng, Huadong Chen, Yao Chen
ApJL **2021**
https://arxiv.org/pdf/2111.00713.pdf

23 Dec 2015–1 Jan 2016
Magnetic Helicity Signs and Flaring Propensity: Comparing Force-free Parameter with the Helicity signs of Hα Filaments and X-ray Sigmoids
V. **Aparna**, Manolis K. Georgoulis, Petrus C. Martens
ApJ **2024**
https://arxiv.org/ftp/arxiv/papers/2403/2403.17075.pdf

24 Dec – Подряд налагающиеся 02:12 M1.1 импульс (с длительной подложкой) и 06:16(?) C5.9/C6.5 LDE из SE/NE(?) области

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

24-28 Dec
Thermodynamic evolution of a sigmoidal active region with associated flares
Sargam M. **Mulay**, Durgesh Tripathi, Helen Mason
MNRAS Volume 504, Issue 1, Pages 1201–1218 **2021**

https://arxiv.org/ftp/arxiv/papers/2103/2103.09561.pdf
https://watermark.silverchair.com/stab816.pdf
https://doi.org/10.1093/mnras/stab816

27-29 Dec

The effect of data-driving and relaxation model on magnetic flux rope evolution and stability
Andreas **Wagner**, Daniel J. Price, Slava Bourgeois, Farhad Daei, Jens Pomoell, Stefaan Poedts, Anshu Kumari, Teresa Barata, Robertus Erdélyi, Emilia K. J. Kilpua
A&A **2024**
https://arxiv.org/pdf/2410.18672

28 Dec – 12:45, M1.8 LDE, S19W23, **крупная центральная эрупция из большой АО**, **несколько выбросов на 304 А**, максимум радио на дм, S3~370, ragged asymmetric full halo CME, небольшие мягкие протоны

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

The Automatic Identification and Tracking of Coronal Flux Ropes -- Part I: Footpoints and Fluxes
Andreas **Wagner**, Emilia K. J. Kilpua, Ranadeep Sarkar, Daniel J. Price, Anshu Kumari, Farhad Daei, Jens Pomoell, Stefaan Poedts
A&A **2023**
https://arxiv.org/pdf/2306.15019.pdf

A Statistical Study of the IRIS Observational Signatures of Nanoflares and Non-thermal Particles
Kyuhyoun **Cho**, Paola Testa, Bart De Pontieu, Vanessa Polito
ApJ **2022**
https://arxiv.org/pdf/2211.06832.pdf

Direct Evidence for Magnetic Reflection of Heavy Ions from High Mach Number Collisionless Shocks
Hadi **Madanian**1, Steven J. Schwartz2, Stephen A. Fuselier1,3, David Burgess4, Drew L. Turner5, Li-Jen Chen6, Mihir I. Desai1,3, and Michael J. Starkey1
2021 ApJL 915 L19
https://iopscience.iop.org/article/10.3847/2041-8213/ac0aee/pdf
https://doi.org/10.3847/2041-8213/ac0aee

Exploring the coronal evolution of AR 12473 using time-dependent, data-driven magnetofrictional modelling⋆
D. J. **Price**, J. Pomoell and E. K. J. Kilpua
A&A 644, A28 (**2020**)
https://doi.org/10.1051/0004-6361/202038925
https://www.aanda.org/articles/aa/pdf/2020/12/aa38925-20.pdf

A New Tool for CME Arrival Time Prediction Using Machine Learning Algorithms: CAT-PUMA
Jiajia **Liu**, Yudong Ye, Chenlong Shen, Yuming Wang, Robert Erdélyi
ApJ **2018**
https://arxiv.org/pdf/1802.02803.pdf

29 Dec

Statistics of Solar White-Light Flares I: Optimization of Identification Methods and Application
Yingjie **Cai**, Yijun Hou, Ting Li, Jifeng Liu
ApJ **2024**
https://arxiv.org/pdf/2408.05381

30 Dec

The winding number of coronal flux ropes
I. Data-driven time-dependent magnetofrictional modelling
D. J. **Price**, J. Pomoell and E. K. J. Kilpua
A&A, 686, A197 (**2024**)
https://www.aanda.org/articles/aa/pdf/2024/06/aa48409-23.pdf

Review of Image Processing Methods in Solar Photospheric Data Analyzes
Mohsen **Javaherian**, Zahra Eskandari
Iranian Journal of Astronomy and Astrophysics, 10(1), 77-109 (**2023**)
https://arxiv.org/pdf/2310.00380.pdf

A Two-Sided-Loop X-Ray Solar Coronal Jet Driven by a Minifilament Eruption
Alphonse C. **Sterling**, Louise K. Harra, Ronald L. Moore, David A. Falconer
ApJ **2018**
https://arxiv.org/pdf/1811.05557.pdf

30-31 Dec
Measurements and Simulations of the Geomagnetically Induced Currents in Low-latitude Power Networks During Geomagnetic Storms
J. J. **Zhang** , Y. Q. Yu , C. Wang, D. Du , D. Wei , L. G. Liu
Space Weather **Volume18, Issue8** e2020SW002549 **2020**
https://doi.org/10.1029/2020SW002549
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002549

31 Dec -1 Jan – **Буря от эрупции 28-ого, Dst~-117** (**позже и меньше, чем ожидалось**)
См. Geostorm_Dec15-Jan 16.jpg

The Identification of a Planar Magnetic Structure within the ICME Shock Sheath and Its influence on Galactic Cosmic-Ray Flux
Zubair I. **Shaikh**1, Anil N. Raghav2, Geeta Vichare1, Ankush Bhaskar3, and Wageesh Mishra4
2018 ApJ 866 118
http://iopscience.iop.org/article/10.3847/1538-4357/aae1b1/pdf