2016

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

ftp://ftp.sec.noaa.gov/pub/warehouse/2016/2016_plots/xray/
ftp://ftp.sec.noaa.gov/pub/warehouse/2016/2016_plots/proton/

31 Dec -1 Jan – **Буря от эрупции 28-ого, Dst~-117** (**позже и меньше, чем ожидалось**)
См. Geostorm_Dec15-Jan 16.jpg

Solar energetic particle warnings from a coronagraph
O. C. St. **Cyr**, A. Posner, J. T. Burkepile
Space Weather Volume 15, Issue 1 January **2017** Pages 240–257
http://sci-hub.cc/10.1002/2016SW001545
Очень красивый Figure 1 at http://onlinelibrary.wiley.com/doi/10.1002/swe.20352/pdf

1 Jan

The Structure of Coronal Mass Ejections Recorded by the K-Coronagraph at Mauna Loa Solar Observatory
Hongqiang **Song**, Leping Li, Zhenjun Zhou, Lidong Xia, Xin Cheng, Yao Chen
ApJL **2023**
https://arxiv.org/pdf/2307.01398.pdf

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

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

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

Onboard Automated CME Detection Algorithm for Visible Emission Line Coronagraph on ADITYA-L1
Ritesh **Patel**, K Amareswari, Vaibhav Pant, Dipankar Banerjee, Sankarasubramanian K, Amit Kumar
Solar Phys. **2018**
https://arxiv.org/pdf/1806.07932.pdf

1-4 Jan
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

2 Jan – 00:11, M2.3 LDE, почти без микроволн, слабый LDE (только PE фаза); слабый, нечёткий II(1),IV(1); быстрый CME, **протоны J10~20 pfu**

Automatic Near-Real-Time Detection of CMEs in Mauna Loa K-Cor Coronagraph Images
W. T. **Thompson**, O. C. St. Cyr, J. T. Burkepile, A. Posner
Space Weather Volume 15, Issue 10 October **2017** Pages 1288–1299
http://sci-hub.cc/10.1002/2017SW001694

5 Jan – >17(?) UT: a backside halo coronal mass ejection

6 Jan – буря **Dst~-49** от a stream of high-speed solar wind

7 Jan

Fast Magnetosonic Waves and Flows in a Solar Prominence Foot: Observations and Modeling
Leon **Ofman**, Therese A. Kucera
ApJ **2020**
https://arxiv.org/pdf/2006.05885.pdf

Motions in Prominence Barbs Observed on the Solar Limb
T. A. **Kucera**1, L. Ofman1,2,3, and T. D. Tarbell
2018 ApJ 859 121

Coronal Elemental Abundances in Solar Emerging Flux Regions
Deborah **Baker**1, David H. Brooks2, Lidia van Driel-Gesztelyi1,3,4, Alexander W. James1,3, Pascal Démoulin3, David M. Long1, Harry P. Warren5, and David R. Williams6
2018 ApJ 856 71
http://iopscience.iop.org/article/10.3847/1538-4357/aaadb0/pdf

8 Jan

Detection of Coronal Mass Ejections Using Unsupervised Deep Clustering
Rasha **Alshehhi** & Prashanth R. Marpu
Solar Physics volume 296, Article number: 104 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01854-w.pdf
https://doi.org/10.1007/s11207-021-01854-w

Network Jets as the Driver of Counter-Streaming Flows in a Solar Filament/Filament Channel
Navdeep K. **Panesar**, Sanjiv K. Tiwari, Ronald L. Moore, Alphonse C. Sterling
ApJL **2020**
https://arxiv.org/pdf/2006.04249.pdf

9 Jan

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

Flux Rope Breaking and Formation of a Rotating Blowout Jet
Navin Chandra **Joshi**, Naoto Nishizuka, Boris Filippov, Tetsuya Magara, Andrey G. Tlatov
MNRAS **2018**
https://arxiv.org/pdf/1802.01798.pdf

11-12 Jan
Single-spacecraft Identification of Flux Tubes and Current Sheets in the Solar Wind

Francesco **Pecora**1, Antonella Greco1, Qiang Hu2, Sergio Servidio1, Alexandros G. Chasapis3, and William H. Matthaeus3
2019 ApJL 881 L11
sci-hub.se/10.3847/2041-8213/ab32d9

12 Jan
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

14 Jan
Recovering Thermodynamics from Spectral Profiles observed by IRIS: A Machine and Deep Learning Approach
Alberto Sainz **Dalda**, Jaime de la Cruz Rodríguez, Bart De Pontieu, Milan Gošić
ApJL 875 L18 **2019**
https://arxiv.org/pdf/1904.08390.pdf

14-15 Jan – **значительная эрупция центрального/южного волокна**, **304 A, CME**

15 Jan
Fast and Accurate Emulation of the SDO/HMI Stokes Inversion with Uncertainty Quantification
Richard E.L. **Higgins**, David F. Fouhey, Dichang Zhang, Spiro K. Antiochos, Graham Barnes, Todd Hoeksema, KD Leka, Yang Liu Peter W. Schuck, Tamas I. Gombosi
ApJ **2021**
https://arxiv.org/pdf/2103.17273.pdf

17 Jan -≥22 UT: небольшая южно-центральная эрупция волокна

18 Jan, -≥21 UT: приход УВ и ICME от эрупции 14-15 Jan

20 Jan – **серьёзная геобуря** (**Dst~-132**) от эрупций волокон 14-1-ого(?) или 17-ого

26 Jan - A **filament** snaking across the sun's southern hemisphere **erupted** at~18 UT, **304 A**, C1.3 LDE, A fairly narrow CME

SCSS-Net: Solar Corona Structures Segmentation by Deep Learning
Šimon **Mackovjak**, Martin Harman, Viera Maslej-Krešňáková, Peter Butka
MNRAS **2021**
https://arxiv.org/pdf/2109.10834

Solar wind prediction using deep learning
Vishal **Upendran**, M.C.M Cheung, Shravan Hanasoge, Ganapathi Krishnamurthi
Space Weather **2020**
https://arxiv.org/pdf/2006.05825.pdf

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

Horizontal photospheric flows trigger a filament eruption
T. **Roudier**, B. Schmieder, B. Filippov, R. Chandra, J.M. Malherbe
A&A **2018**

https://arxiv.org/pdf/1808.02272.pdf

Large-Amplitude Longitudinal Oscillations Triggered by the Merging of Two Solar Filaments: Observations and Magnetic Field Analysis
M. **Luna**, Y. Su, B. Schmieder, R. Chandra, T. A. Kucera
ApJ **2017**
https://arxiv.org/pdf/1711.01038.pdf

Interaction of two filaments in a long filament channel associated with twin coronal mass ejections
Ruisheng **Zheng**, Qingmin Zhang, Yao Chen, Bing Wang, Guohui Du, Chuanyang Li, Kai Yang
ApJ **2017**
https://arxiv.org/pdf/1701.05122v1.pdf

29 Jan
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

1 Feb
Real-time detection, location and measurement of geoeffective stellar flares from Global Navigation Satellite System data: new technique and case studies
Manuel **Hernández-Pajares** & David Moreno-Borràs
Space Weather **2020**
sci-hub.si/10.1029/2020SW002441

2 Feb
Direct Measurement of AIA 171 Coronal Loop Transparency
Hongbo **Li**1,2, Hengqiang Feng1, Zhanjun Tian1, Xuefei Zhang3, Jihong Liu4, Guoqing Zhao1, Yan Zhao1, Hao Cai1, Yuanxi Liang1, and Runze Guo1
2022 ApJ 934 135
https://iopscience.iop.org/article/10.3847/1538-4357/ac7da5/pdf

3-8 Feb
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

4 Feb
3He-Rich Solar Energetic Particle Events with No Measurable 4He Intensity Increases
George C. **Ho**, Glenn M. Mason, Robert C. Allen
Solar Physics February **2019**, 294:33
https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1420-z.pdf
sci-hub.tw/10.1007/s11207-019-1420-z

5 Feb - >20 UT, **Eruption** from a central AR 12494 and A **filament eruption** to the west . C1.0 LDE, A slow moving partial halo CME was observed late on February 5 and early on February 6 in LASCO imagery.

5-6 Feb
Dispersion of small magnetic elements inside active regions on the Sun
Valentina I. **Abramenko**
MNRAS **2018**
https://arxiv.org/pdf/1812.05469.pdf

The Formation of a Small-scale Filament after Flux Emergence on the Quiet Sun
Hechao **Chen**, Jiayan Yang, Bo Yang, Kaifan Ji, Yi Bi
Solar Phys. **2018**
https://arxiv.org/pdf/1806.03830.pdf

5-7 Feb
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

6 Feb

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

Observing Current Sheet Formation Forced by Non-radial Rotating Motion of Mini-filaments
Hechao **Chen**1,2,3, Jiayan Yang1,3, Yadan Duan4, and Kaifan Ji1,3
2019 ApJ 879 74
sci-hub.se/10.3847/1538-4357/ab24ce

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

9 Feb, 06:57 - C1.6 LDE was associated with a **filament eruption** in and near AR 12491 (~W55)

Light Bridge Brightening and Plasma Ejection Driven by a Magnetic Flux Emergence Event
Xu **Yang**1,2, Vasyl Yurchyshyn2, Kwangsu Ahn2, Matt Penn3, and Wenda Cao
2019 ApJ 886 64
sci-hub.se/10.3847/1538-4357/ab4a7d

10 Feb

Birth places of extreme ultraviolet waves driven by impingement of solar jets upon coronal loops
Liang **Zhang**, Ruisheng Zheng, Huadong Chen, Yao Chen
ApJ **2022**
https://arxiv.org/pdf/2204.00522.pdf

Fast and Accurate Emulation of the SDO/HMI Stokes Inversion with Uncertainty Quantification
Richard E.L. **Higgins**, David F. Fouhey, Dichang Zhang, Spiro K. Antiochos, Graham Barnes, Todd Hoeksema, KD Leka, Yang Liu Peter W. Schuck, Tamas I. Gombosi
ApJ **2021**
https://arxiv.org/pdf/2103.17273.pdf

11 Feb, 21:03 – **C9 LDE flare, N11W07, eruption, halo CME**

12 Feb

Deep Learning Based Solar Flare Forecasting Model. II. Influence of Image Resolution
Sixuan **Liu**1,2,3, Long Xu1, Zhongrui Zhao1,2,3, R. Erdélyi4,5, Marianna B. Korsós5,6, and Xin Huang7,1
2022 ApJ 941 20
https://iopscience.iop.org/article/10.3847/1538-4357/ac99dc/pdf

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

13 Feb

Transfer of Twists from a Mini-filament to Large-scale Loops by Magnetic Reconnection
Liheng **Yang**1,2,3, Xiaoli Yan1,2,4, Zhike Xue1,2,4, Ting Li4, Jincheng Wang1,2, Qiaoling Li1,2, and Xin Cheng3
2019 ApJ 887 239
https://doi.org/10.3847/1538-4357/ab55d7

Two Episodes of Magnetic Reconnections During a Confined Circular-ribbon Flare
Ting **Li**, Shuhong Yang, Qingmin Zhang, Yijun Hou, Jun Zhang
ApJ **2018**
https://arxiv.org/pdf/1804.05458.pdf

15 Feb
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

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

16-18 Feb – geostorm Dst~-56 due to a high speed stream from CH715 (and eruption of 11 Feb at the onset).

18 Feb – >22 UT, **эрупция SE волокна, CME**

Multiple Regions of Nonthermal Quasi-Periodic Pulsations during the Impulsive Phase of a Solar Flare
Yingjie **Luo**, Bin Chen, Sijie Yu, Marina Battaglia, Rohit Sharma
ApJ **2022**
https://arxiv.org/pdf/2210.06219.pdf

Detection of Extreme and Exceptional Langmuir Wave Packets in Solar Type III Radio Bursts
G. **Thejappa**, R. J. MacDowall
JGR Volume125, Issue6 June **2020** e2019JA027714
sci-hub.tw/10.1029/2019JA027714

Forbush Decreases and <2 Day GCR Flux Non-recurrent Variations Studied with LISA Pathfinder
M. **Armano**1, H. Audley2, J. Baird3, S. Benella4,5, P. Binetruy6,24, M. Born2, D. Bortoluzzi7, E. Castelli8, A. Cavalleri9, A. Cesarini4,5Show full author list
2019 ApJ 874 167

sci-hub.se/10.3847/1538-4357/ab0c99

Feb 18-Apr 14
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

2016 February 18 through 2017 July 3

Characteristics and Energy Dependence of Recurrent Galactic Cosmic-Ray Flux Depressions and of a Forbush Decrease with LISA Pathfinder
M. **Armano**1, H. Audley2, J. Baird3, M. Bassan4, S. Benella5,6, P. Binetruy7,24, M. Born2, D. Bortoluzzi8, A. Cavalleri9, A. Cesarini5 …..
2018 ApJ 854 113
http://sci-hub.tw/http://iopscience.iop.org/0004-637X/854/2/113/

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

20 Feb
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

21 Feb
IRIS Mg II Observations and Non-LTE Modeling of Off-limb Spicules in a Solar Polar Coronal Hole
Akiko **Tei**, Stanislav Gunar, Petr Heinzel, Takenori J. Okamoto, Jiri Stepan, Sonja Jejcic, Kazunari Shibata
ApJ **2019**
https://arxiv.org/pdf/1911.12243.pdf

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

27 Feb
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

1 March- ~02 UT: заметное околоземное возмущение от CH717 **с Bz>0**
~08 UT – эрупция прилимбового NE волокна, CME

3 March, >15 UT – центральная эрупция волокна

5 Mar
Fast and Accurate Emulation of the SDO/HMI Stokes Inversion with Uncertainty Quantification

Richard E.L. **Higgins**, David F. Fouhey, Dichang Zhang, Spiro K. Antiochos, Graham Barnes, Todd Hoeksema, KD Leka, Yang Liu Peter W. Schuck, Tamas I. Gombosi
ApJ **2021**
https://arxiv.org/pdf/2103.17273.pdf

6 March - **значительная геомагнитная буря (Dst~-96), Forbush от эрупции 3-его и небольшой CH718**

6-8 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

9 March **Solar Eclipse**

Ludendorff Coronal Flattening Index of the Total Solar Eclipse on March 9, 2016
Tiar **Dani**, Rhorom Priyatikanto, Abdul Rachman
International Symposium on Sun, Earth, and Life **2016**
https://arxiv.org/pdf/1610.07704v1.pdf

11 Mar
Fast and Accurate Emulation of the SDO/HMI Stokes Inversion with Uncertainty Quantification
Richard E.L. **Higgins**, David F. Fouhey, Dichang Zhang, Spiro K. Antiochos, Graham Barnes, Todd Hoeksema, KD Leka, Yang Liu Peter W. Schuck, Tamas I. Gombosi
ApJ **2021**
https://arxiv.org/pdf/2103.17273.pdf

12 March

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

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

12-14 Mar
Magnetic helicity evolution during active region emergence and subsequent flare productivity
Zheng **Sun**, Ting Li, Quan Wang, Shangbin Yang, Mei Zhang, Yajie Chen
A&A **2024**
https://arxiv.org/pdf/2403.18354.pdf

13 March – эрупции двух волокон: восточного прилимбового и северного центрального, два CME

Direct Measurement of AIA 171 Coronal Loop Transparency
Hongbo **Li**1,2, Hengqiang Feng1, Zhanjun Tian1, Xuefei Zhang3, Jihong Liu4, Guoqing Zhao1, Yan Zhao1, Hao Cai1, Yuanxi Liang1, and Runze Guo1
2022 ApJ 934 135

https://iopscience.iop.org/article/10.3847/1538-4357/ac7da5/pdf

An Observational Study of a "Rosetta-Stone" Solar Eruption
E I **Mason**, Spiro Antiochos, Angelos Vourlidas
2021
https://arxiv.org/ftp/arxiv/papers/2105/2105.09164.pdf

15 March
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

16 March – 06:46: A magnetic **filament** attached to sunspot AR2522 erupted during the early hours
W-лимб C2.2 вспышка, II тип, слабые **протоны J10~1**

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

Synthesising Solar Radio Images From Atmospheric Imaging Assembly Extreme-Ultraviolet Data
Z. F. **Li**, S. H. Hua, X. Cheng, M. D. Ding
Research in Astronomy and Astrophysics **2019**
https://arxiv.org/pdf/1909.11923.pdf

Direct Estimates of the Solar Coronal Magnetic Field Using Contemporaneous Extreme-ultraviolet, Radio, and White-light Observations
Anshu **Kumari**, R. Ramesh, C. Kathiravan, T. J. Wang, N. Gopalswamy
ApJ **2019**
https://arxiv.org/pdf/1907.09721.pdf

Multi-instrument view on solar eruptive events observed with the Siberian Radioheliograph: From detection of small jets up to development of a shock wave and CME
V. V. **Grechnev**, S. V. Lesovoi, A. A. Kochanov, A. M. Uralov, A. T. Altyntsev, A. V. Gubin, D. A. Zhdanov, E. F. Ivanov, G. Ya. Smolkov, L. K. Kashapova (Institute of Solar-Terrestrial Physics, Irkutsk, Russia)
Journal of Atmospheric and Solar-Terrestrial Physics **2018**
https://arxiv.org/pdf/1805.02564.pdf

Type II solar radio burst band-splitting: Measure of coronal magnetic field strength
Ayman**Mahrousa**, KhaledAlieldena, BojanVršnakb, MohamedYoussefa
Journal of Atmospheric and Solar-Terrestrial Physics Volume 172, July **2018**, Pages 75-82
http://sci-hub.tw/10.1016/j.jastp.2018.03.018

СИБИРСКИЙ РАДИОГЕЛИОГРАФ: ПЕРВЫЕ РЕЗУЛЬТАТЫ
Лесовой С.В., Алтынцев А.Т., Кочанов А.А., Гречнев В.В., Губин А.В., Жданов Д.А., Иванов Е.Ф., Уралов А.М., Кашапова Л.К., Кузнецов А.А., Мешалкина Н.С., Сыч Р.А.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том: 3Номер: 1 Год: **2017** pp. 3-16

On a solar type III radio burst observed with LOFAR
Gottfried **Mann**∗1 , Richard Fallows2 , Frank Breitling3 , Christian Vocks3 , Mario Bisi4 , Peter Gallagher5 , Alain Kerdraon6 , Jasmina Magdalenic7 , Alec Mackinnon8 , Helmut Rucker9 , Alexandr Konovalenko10, Christophe Marque7 , Eduard Kontar8 , Bartosz Dabrowski11, Andrzej Krankowski12, Hamish Reid8 , and Bo Thide13

CESRA **2016** p.75
http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v3.pdf

A special solar type II radio burst observed with LOFAR
Frank **Breitling**∗1 , Richard Fallows2 , Gottfried Mann3 , Christian Vocks4 , Mario Bisi5 , Peter Gallagher6 , Alain Kerdraon7 , Jasmina Magdalenic8 , Alec Mackinnon9 , Helmut Rucker10, Alexandr Konovalenko11, Christophe Marque12, Eduard Kontar9 , Bartosz Dabrowski13, Andrzej Krankowski13, Hamish Reid9 , and Bo Thide
CESRA **2016** p.68
http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v3.pdf

17 Mar
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

18 March
Real-time detection, location and measurement of geoeffective stellar flares from Global Navigation Satellite System data: new technique and case studies
Manuel **Hernández-Pajares** & David Moreno-Borràs
Space Weather **2020**
sci-hub.si/10.1029/2020SW002441

19 March

Quasiperiodic Energy Release and Jets at the Base of Solar Coronal Plumes
Pankaj **Kumar**, Judith T. Karpen, Vadim M. Uritsky, Craig E. Deforest, Nour E. Raouafi, C. Richard DeVore
ApJ **933** 21 **2022**
https://arxiv.org/pdf/2204.13871.pdf
https://iopscience.iop.org/article/10.3847/1538-4357/ac6c24/pdf

IRIS and SDO Observations of Solar Jetlets Resulting from Network-Edge Flux Cancelation
Navdeep K. **Panesar**, Alphonse C. Sterling, Ronald L. Moore, Sanjiv K. Tiwari, Bart De Pontieu, Aimee A. Norton
ApJL **2018**
https://arxiv.org/pdf/1811.04314.pdf

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

21 March

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

On a small-scale EUV wave: the driving mechanism and the associated oscillating filament
Yuandeng **Shen**, Yu Liu, Zhanjun Tian, Zhining Qu
ApJ **2017**
https://arxiv.org/pdf/1711.04905.pdf

23 March

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

Observations of a quasi-periodic pulsation in the coronal loop and microwave flux during a solar preflare phase
Dong **Li**, Ying Li, Lei Lu, Qingmin Zhang, Zongjun Ning, Sergey Anfinogentov
ApJL **2020**
https://arxiv.org/pdf/2003.09567.pdf

Observations of Reconnection Flows in a Flare on the Solar Disk
Juntao **Wang**, P. J. A. Simoes, N. L. S. Jeffrey, L. Fletcher, P. J. Wright, I. G. Hannah
ApJL **2017**
https://arxiv.org/pdf/1708.08706.pdf

Imaging Observations of Magnetic Reconnection in a Solar Eruptive Flare
Y. **Li**, X. Sun, M. D. Ding, J. Qiu, E. R. Priest
ApJ 835, 190 **2017**
https://arxiv.org/pdf/1612.09417v1.pdf

23 March

An explanation for the slow-rise phase of solar eruptions
Yaoyu **Xing**, Aiying Duan, Chaowei Jiang
MNRAS, Volume 534, Issue 1, October **2024**, Pages 107–116,
https://doi.org/10.1093/mnras/stae2088
https://watermark.silverchair.com/stae2088.pdf

An ultra-long and quite thin coronal loop without significant expansion
Dong **Li**, Ding Yuan, Marcel Goossens, Tom Van Doorsselaere, Wei Su, Ya Wang, Yang Su, Zongjun Ning
A&A **2020**
https://arxiv.org/pdf/2006.02629.pdf

24 March

Active Region Modulation of Coronal Hole Solar Wind
Allan R. **Macneil**1,2, Christopher J. Owen2, Deborah Baker2, David H. Brooks3, Louise K. Harra2,4,5, David M. Long2, and Robert T. Wicks2,6
2019 ApJ 887 146
https://doi.org/10.3847/1538-4357/ab5586

25 March

Chromospheric Heating from Local Magnetic Growth and Ambipolar Diffusion Under Non-Equilibrium Conditions
Juan Martínez **Sykora**, Jaime de la Cruz Rodríguez, Milan Gošić, Alberto Sainz Dalda, Viggo H. Hansteen, Bart De Pontieu

ApJL **2022**
https://arxiv.org/pdf/2211.08472.pdf

27 March - 4 April
Evolution Of Super-Sonic Downflows In A Sunspot
C. J. **Nelson**, S. Krishna Prasad, M. Mathioudakis
A&A **2020**
https://arxiv.org/pdf/2003.02489.pdf

30 March
Modeling of the sunspot-associated microwave emission using a new method of DEM inversion
C. E. **Alissandrakis**, V. M. Bogod, T. I. Kaltman, S. Patsourakos, N. G. Peterova
Solar Phys. **2018**
https://arxiv.org/pdf/1812.05751.pdf

Apr 2016

Solar surges related to UV bursts
Characterization through k-means, inversions, and density diagnostics ⋆
D. **Nóbrega-Siverio**1,2,3,4, S. L. Guglielmino5,6 and A. Sainz Dalda
A&A 655, A28 (**2021**)
https://www.aanda.org/articles/aa/pdf/2021/11/aa41472-21.pdf
https://doi.org/10.1051/0004-6361/202141472

The Dynamics of the Inner Boundary of the Outer Radiation Belt During Geomagnetic Storms
Xiaofei **Shi** , Jie Ren , Q. G. Zong
JGR **Volume125, Issue5** May **2020** e2019JA027309
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2019JA027309

1 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

4 Apr
Correcting Projection Effects in CMEs using GCS-based Large Statistics of Multi-viewpoint Observations
Harshita **Gandhi**, Ritesh Patel, Vaibhav Pant, Satabdwa Majumdar, Sanchita Pal, Dipankar Banerjee, Huw Morgan
Space weather **2024**
https://arxiv.org/pdf/2402.07961.pdf

7 Apr – выходит большая AR2529; с 9-ого шумовая буря

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

8-19 Apr
Observational Evidence of a Flux Rope within a Sunspot Umbra

Salvo L. **Guglielmino**, Paolo Romano, Francesca Zuccarello
ApJL **2017**
https://arxiv.org/pdf/1708.02398.pdf

9 Apr

Study of Particle Acceleration using Fine Structures and Oscillations in Microwaves from Electron Cyclotron Maser
Rohit **Sharma**, Marina Battaglia, Sijie Yu, Bin Chen, Yingjie Luo, Sam Krucker
ApJ **2024**
https://arxiv.org/pdf/2405.04351

Detection of long-lasting aurora-like radio emission above a sunspot
Yu, Sijie ; Chen, Bin , Sharma, Rohit ; Bastian, Timothy S. ; Mondal, Surajit ; Gary, Dale E. ; Luo, Yingjie ; Battaglia, Marina
Nature Astronomy, **2023**
https://arxiv.org/abs/2310.01240

10 Apr - >10 UT –эрупция волокна чуть западнее AR2529
- 09:34 – C1.5 LDE flare в AR2529, N07E55, radio CONT, CME

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

12-16 Apr
Light Bridge and Magnetic Field in a Solar Active Region
Huaning **Wang**1,2,3,4, Changhui Rao1,2,3, Naiting Gu1,2,3, Libo Zhong1,2, and Xin Huang4
2022 ApJ 939 49
https://iopscience.iop.org/article/10.3847/1538-4357/ac9378/pdf

13 Apr

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

Signatures of red-shifted footpoints in the quiescent coronal loop system
Yamini K. **Rao**, Abhishek K. Srivastava, Pradeep Kayshap, Bhola N. Dwivedi
Annales Geophysicae **2019**
https://arxiv.org/pdf/1908.02865.pdf

13-14 Apr

Solar surges related to UV bursts: Characterization through k-means, inversions and density diagnostics
D. Nóbrega **Siverio**, S.L. Guglielmino, A. Sainz Dalda
A&A **2021**
https://arxiv.org/pdf/2108.13960.pdf

Satellite observations of reconnection between emerging and pre-existing small-scale magnetic fields
S.L. **Guglielmino**, F. Zuccarello, P.R. Young, P. Romano, M. Murabito
Nuovo Cimento C" as proceeding of the Third Meeting of the Italian Solar and Heliospheric Community **2019**
https://arxiv.org/pdf/1901.01056.pdf

IRIS observations of magnetic interactions in the solar atmosphere between pre-existing and emerging magnetic fields. II. UV emission properties
Salvo L. **Guglielmino**, Peter R. Young, Francesca Zuccarello
ApJ **2018**
https://arxiv.org/pdf/1812.07285.pdf

IRIS observations of magnetic interactions in the solar atmosphere between pre-existing and emerging magnetic fields. I. Overall evolution
Salvo L. **Guglielmino**, Francesca Zuccarello, Peter R. Young, Mariariata Murabito, Paolo Romano
ApJ **2018**
https://arxiv.org/pdf/1802.05657.pdf

14 Apr

Properties of the Umbral Filament Observed in Active Region NOAA 12529
S. L. **Guglielmino**, P. Romano, B. Ruiz Cobo, F. Zuccarello, M. Murabito
ApJ **2019**
https://arxiv.org/pdf/1906.00065.pdf

Modeling of the sunspot-associated microwave emission using a new method of DEM inversion
C. E. **Alissandrakis**, V. M. Bogod, T. I. Kaltman, S. Patsourakos, N. G. Peterova
Solar Phys. **2018**
https://arxiv.org/pdf/1812.05751.pdf

16 Apr

A Confined Partial Eruption of Double-decker Filaments
Ruisheng **Zheng**1,8, Shuhong Yang2,3, Changhui Rao4,5,8, Yangyi Liu4,5, Libo Zhong4,5, Bing Wang1, Hongqiang Song1, Zhen Li6,7, and Yao Chen1
2019 ApJ 875 71
sci-hub.se/10.3847/1538-4357/ab0f3f

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

17 Apr

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

18 Apr - 00:29, M6.7 quasi-impulsive flare in AR2529, N12W62, eruption, S9~300, type II/IV, быстрый CME, протонов практически нет (еле заметное медленное повышение)

On the Instrumental Discrepancies in Lyman-alpha Observations of Solar Flares

Harry J. **Greatorex**, Ryan O. Milligan, Ingolf E. Dammasch
Solar Phys. **2024**
https://arxiv.org/pdf/2411.00736

Effects of resonant scattering of the Si IV doublet near 140 nm in a solar active region⋆
C. **Gontikakis**1 and J.-C. Vial2,3
A&A 619, A64 (**2018**)
http://sci-hub.tw/https://www.aanda.org/articles/aa/abs/2018/11/aa32563-17/aa32563-17.html

СИБИРСКИЙ РАДИОГЕЛИОГРАФ: ПЕРВЫЕ РЕЗУЛЬТАТЫ
Лесовой С.В., Алтынцев А.Т., Кочанов А.А., Гречнев В.В., Губин А.В., Жданов Д.А., Иванов Е.Ф., Уралов А.М., Кашапова Л.К., Кузнецов А.А., Мешалкина Н.С., Сыч Р.А.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том: 3Номер: 1 Год: **2017** pp. 3-16

20 Apr
Active Region Modulation of Coronal Hole Solar Wind
Allan R. **Macneil**1,2, Christopher J. Owen2, Deborah Baker2, David H. Brooks3, Louise K. Harra2,4,5, David M. Long2, and Robert T. Wicks2,6
2019 ApJ 887 146
https://doi.org/10.3847/1538-4357/ab5586

21-27 April

Active Region Modulation of Coronal Hole Solar Wind
Allan R. **Macneil**1,2, Christopher J. Owen2, Deborah Baker2, David H. Brooks3, Louise K. Harra2,4,5, David M. Long2, and Robert T. Wicks2,6
2019 ApJ 887 146
https://doi.org/10.3847/1538-4357/ab5586

A giant dark channel across the solar equator consisting of two filament channels with different chiralities
Zhiping **Song**, Yijun Hou, Jun Zhang
ApJ **2018**
https://arxiv.org/pdf/1811.10148.pdf

24 Apr ~20:00 - M1 flare, EUV wave, type II
Initiation of a type II radio burst without a CME
Pankaj **Kumar**, Davina Innes, and Kyung-Suk Cho
RHESSI Science Nuggets #278 July **2016**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Initiation_of_a_type_II_radio_burst_without_a_CME

28 Apr
Диагностика плазменных струй в короне Солнца
Анфиногентов С.А., Кальтман Т.И., Ступишин А.Г., Накаряков В.М., Лукичева М.А.
Солне чно-земная физика. **2021**. Т. 7, No 2. С. 3–11.
https://naukaru.ru/ru/storage/viewWindow/72935

29 Apr

Signatures of ubiquitous magnetic reconnection in the deep atmosphere of sunspot penumbrae
L. H. M. Rouppe van der **Voort**, J. Joshi, V. M. J. Henriques, S. Bose
A&A **2021**
https://arxiv.org/pdf/2101.11321.pdf

Semi-empirical model atmospheres for the chromosphere of the sunspot penumbra and umbral flashes
Souvik **Bose**, Vasco M. J. Henriques, Luc Rouppe van der Voort, Tiago M.D. Pereira
A&A **2019**
https://arxiv.org/pdf/1905.08264.pdf

29-30 Apr
A multi-diagnostic spectral analysis of penumbral microjets
Ainar **Drews**, Luc Rouppe van der Voort
A&A **2020**
https://arxiv.org/pdf/2005.02608.pdf

1 May

New results on the direct observations of thermal radio emission from a solar coronal mass ejection
R. **Ramesh**, A. Kumari, C. Kathiravan, D. Ketaki, T. J. Wang
Geophysical Research Letters v. 48, **Issue 8**, e2020GL091048 **2021**
https://arxiv.org/pdf/2103.04148.pdf
https://doi.org/10.1029/2020GL091048

2 May – 08:42, **impulsive flare C3.2, AR 2540 , N21E24, II тип в наше время**

Solar Radio Spectro-polarimetry (50-500 MHz) : Design and Development of Cross-Polarized Log-Periodic Dipole antenna and configuration of receiver system
Anshu **Kumari**, G. V. S. Gireesh, C. Kathiravan, V. Mugundhan, Indrajit V. Barve
IEEE Transactions on Antennas and Propagation **2021**
https://arxiv.org/pdf/2101.05088.pdf

4 May

Direct Measurement of AIA 171 Coronal Loop Transparency
Hongbo **Li**1,2, Hengqiang Feng1, Zhanjun Tian1, Xuefei Zhang3, Jihong Liu4, Guoqing Zhao1, Yan Zhao1, Hao Cai1, Yuanxi Liang1, and Runze Guo1
2022 ApJ 934 135
https://iopscience.iop.org/article/10.3847/1538-4357/ac7da5/pdf

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

Small-scale motions in solar filaments as the precursors of eruptions
Daikichi **Seki**, Kenichi Otsuji, Hiroaki Isobe, Takako T. Ishii, Kiyoshi Ichimoto, Kazunari Shibata
PASJ **2019**
https://arxiv.org/ftp/arxiv/papers/1902/1902.08718.pdf

5 May

Vortex Formations and Its Associated Surges in a Sunspot Light Bridge
Heesu **Yang**1 , Eun-Kyung Lim1 , Haruhisa Iijima2 , Vasyl Yurchyshyn3 , Kyung-Suk Cho1 , Jeongwoo Lee4 , Brigitte Schmieder1,5 , Yeon-Han Kim1 , Sujin Kim1 , and Su-Chan Bong1
ApJ 882:175 **2019**
https://iopscience.iop.org/article/10.3847/1538-4357/ab36b7/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

7-11 May

The Global Survey Method Applied to Ground-level Cosmic Ray Measurements
A. **Belov**1 · E. Eroshenko1 · V. Yanke1 · V. Oleneva1 ·A. Abunin1 · M. Abunina1 · A. Papaioannou2,3 · H. Mavromichalaki2
Solar Phys (**2018**) 293:68
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1277-6.pdf

8 May

On the effect of geomagnetic storms on relativistic electrons in the outer radiation belt: Van Allen Probes observations†
Pablo. S. **Moya**, Víctor A. Pinto, David G. Sibeck, Shrikanth G. Kanekal, Daniel N. Baker
JGR **2017**
http://sci-hub.cc/http://onlinelibrary.wiley.com/doi/10.1002/2017JA024735/abstract;jsessionid=48E043E86C22084A1908FD5A8ADEDAFC.f03t01

9 May - >15 UT: эрупция NE волокна и последующая эрупция из близлежащей АО 2542 с LDE ~B4, крупный CME в северном направлении См. фильмы в Chains_24
- На тех же фильмах TRANSIT OF MERCURY

Visual and H-alpha measurements of solar diameter of 9 may 2016 mercury transit
Costantino **Sigismondi**, Hamed Altafi
GERBERTVS academic journal (www.icra.it/gerbertus) **2018**
https://arxiv.org/ftp/arxiv/papers/1805/1805.09915.pdf

The new Hinode/EIS nugget contains a multi-wavelength movie of the Mercury transit on 9 May 2016.
http://solarb.mssl.ucl.ac.uk/SolarB/nuggets/nugget_2016may.jsp

The opportunity of the 2016 transit of Mercury for measuring the solar diameter and recommendations for the observation
Costantino **Sigismondi**
presented at the congress Solar Metrology, Needs and Methods II 21-23 September 2015 Royal Observatory of Belgium **2016**
http://arxiv.org/pdf/1605.02084v1.pdf

10 May

Fast and Accurate Emulation of the SDO/HMI Stokes Inversion with Uncertainty Quantification
Richard E.L. **Higgins**, David F. Fouhey, Dichang Zhang, Spiro K. Antiochos, Graham Barnes, Todd Hoeksema, KD Leka, Yang Liu Peter W. Schuck, Tamas I. Gombosi
ApJ **2021**
https://arxiv.org/pdf/2103.17273.pdf

12-13 May

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

13 May

IBIS-A: The IBIS data Archive. High resolution observations of the solar photosphere and chromosphere with contextual data
Ilaria **Ermolli**, Fabrizio Giorgi, Mariarita Murabito, Marco Stangalini, Vincenzo Guido, Marco Molinaro, Paolo Romano, Salvatore L. Guglielmino, Giorgio Viavattene, Gianna Cauzzi, Serena Criscuoli, Kevin P. Reardon, Alexandra Tritschler
A&A **2022**
https://arxiv.org/pdf/2202.09946.pdf

Small-scale motions in solar filaments as the precursors of eruptions
Daikichi **Seki**, Kenichi Otsuji, Hiroaki Isobe, Takako T. Ishii, Kiyoshi Ichimoto, Kazunari Shibata
PASJ **2019**
https://arxiv.org/ftp/arxiv/papers/1902/1902.08718.pdf

14 May
Spectroscopic inversions of the Ca ii 8542 Å line in a C-class solar flare
D. **Kuridze**, V. Henriques, M. Mathioudakis, J. Koza, T. V. Zaqarashvili, J. Rybák, A. Hanslmeier, F. P. Keenan
ApJ **2017**
https://arxiv.org/pdf/1708.00472.pdf

15 May – 16:03: LDE C3.2 flare, N10W62, с длинными параллельными лентами, (волокно?), Приличный CME, слабые (J10~1.3) мягкие протоны;
A filament of magnetism connecting sunspots AR2542 and AR2543 erupted on May 15th and hurled a CME
До этого и затем ещё небольшие эрупции ближе к центру.

Detection and Characterisation of a Coronal Mass Ejection using Interplanetary Scintillation measurements from the Murchison Widefield Array
J. **Morgan**, P. I. McCauley, A. Waszewski, R. Ekers, R. Chhetri
Space Weather **2023**
https://arxiv.org/pdf/2303.09134.pdf

Localized Amplification of Magnetic Field in the Solar Photosphere Associated with a Rapid Moving Pore
Zhe **Xu**1,2,3, Haisheng Ji1,3, Kaifan Ji2,3, Yi Bi2,3, Bo Yang2,3, Junchao Hong2,3, and Jiayan Yang2,3
2020 ApJL 900 L17
https://doi.org/10.3847/2041-8213/abb096
https://iopscience.iop.org/article/10.3847/2041-8213/abb096/pdf

Signatures of the impact of flare ejected plasma on the photosphere of a sunspot light-bridge
T. **Felipe**, M. Collados, E. Khomenko, S. P. Rajaguru, M. Franz, C. Kuckein, A. Asensio Ramos
A&A **2017**
https://arxiv.org/pdf/1708.06133.pdf

16-29 May
Improving Coronal Magnetic Field Models Using Image Optimization
Shaela I. **Jones**1,2, Vadim M. Uritsky1,2, Joseph M. Davila1, and Vladimir N. Troyan3
2020 ApJ 896 57
https://doi.org/10.3847/1538-4357/ab8cb9

20 May

Alfvenic Perturbations in a Sunspot Chromosphere Linked to Fractionated Plasma in the Corona

D. **Baker** , M. Stangalini , G. Valori , D. H. Brooks , A. S. H. To , L. van Driel-Gesztelyi (UCL/MSSL), P. Demoulin (LESIA-Meudon), D. Stansby (UCL/MSSL), D. B. Jess (Queen's University Belfast), S. Jafarzadeh (University of Oslo)
ApJ **2020**
https://arxiv.org/pdf/2012.04308.pdf

Spectropolarimetric Fluctuations in a Sunspot Chromosphere
M. **Stangalini**, D. Baker, G. Valori, D.B. Jess, S. Jafarzadeh, M. Murabito, A.S.H. To, D.H. Brooks, I. Ermolli, F. Giorgi, C.D. MacBride
Philosophical Transactions of the Royal Society A **2020**
https://arxiv.org/pdf/2009.05302.pdf

Magnetohydrodynamic Non-linearities in Sunspot Atmospheres: Chromospheric Detections of Intermediate Shocks
S.J. **Houston**, D.B. Jess, R. Keppens, M. Stangalini, P.H. Keys, S.D.T. Grant, S. Jafarzadeh, L.M. McFetridge, M. Murabito, I. Ermolli, F. Giorgi
ApJ **2020**
https://arxiv.org/pdf/2002.12368.pdf

Penumbral brightening events observed in AR NOAA 12546
M. **Murabito**, S. L. Guglielmino, I. Ermolli, M. Stangalini, F. Giorgi
ApJ **2019**
https://arxiv.org/pdf/1912.06002.pdf

Height dependence of the penumbral fine-scale structure in the inner solar atmosphere
Mariarita **Murabito**, I. Ermolli, F. Giorgi, M. Stangalini, S.L. Guglielmino, S. Jafarzadeh, H. Socas-Navarro, P. Romano, F. Zuccarello
ApJ **2018**
https://arxiv.org/pdf/1812.09029.pdf

Propagating Spectropolarimetric Disturbances in a Large Sunspot
M. **Stangalini**, S. Jafarzadeh, I. Ermolli, R. Erdélyi, D. B. Jess, P. H. Keys, F. Giorgi, M. Murabito, F. Berrilli, D. Del Moro
ApJ **2018**
https://arxiv.org/pdf/1810.12595.pdf

20-26 May
The Origin and Early Evolution of a Bipolar Magnetic Region in the Solar Photosphere
A. V**. Getling**1 and A. A. Buchnev
2019 ApJ 871 224

How is a bipolar sunspot group conceived?
A. V. **Getling**, A. A. Buchnev
Solar Phys. **2018**
https://arxiv.org/pdf/1805.06486.pdf

21 May **Filament eruption**

PSTEP: project for solar-terrestrial environment prediction
Kusano, Kanya , Ichimoto, Kiyoshi ; Ishii, Mamoru ; Miyoshi, Yoshizumi ; Yoden, Shigeo ; et al.
Earth, Planets and Space, Volume 73, Issue 1, article id.159, **2021**
https://earth-planets-space.springeropen.com/track/pdf/10.1186/s40623-021-01486-1.pdf
https://doi.org/10.1186/s40623-021-01486-1

22 May

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

Could a Hexagonal Sunspot Have Been Observed During the Maunder Minimum?
V.M.S. **Carrasco**, J.M. Vaquero, M.C. Gallego
Solar Phys. **2018**
https://arxiv.org/ftp/arxiv/papers/1803/1803.00358.pdf

24 May

RHESSI has resumed operations
Albert **Shih**, Brian Dennis, and Sa"m Krucker
RHESSI Science Nugget, No. 276, June 20: **2016**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/RHESSI_has_resumed_operations

26 May

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

2 Jun

An EUV jet driven by a series of transition region micro-jets
Hengyuan **Wei**, Zhenghua Huang, Hui Fu, Ming Xiong, Lidong Xia, Chao Zhang, Kaiwen Deng, Haiyi Li
ApJ **2022**
https://arxiv.org/pdf/2208.00112.pdf

3 June

Magnetic field inference in active region coronal loops using coronal rain clumps
M. **Kriginsky**, R. Oliver, P. Antolin, D. Kuridze, N. Freij
A&A **2021**
https://arxiv.org/pdf/2104.03089.pdf

Properties of stream interaction regions at Earth and Mars during the declining phase of SC 24
Paul **Geyer**, Manuela Temmer, Jingnan Guo, Stephan G. Heinemann
A&A **2021**
https://arxiv.org/pdf/2102.05948.pdf

Ubiquitous hundred-Gauss magnetic fields in solar spicules
M. **Kriginsky**, R. Oliver, N. Freij, D. Kuridze, A. Asensio Ramos, P. Antolin
A&A **2020**
https://arxiv.org/pdf/2006.01809.pdf

4 June

The Alignment of High-resolution Solar Prominence Images Observed by the New Vacuum Solar Telescope
Yunfang **Cai**, Yongyuan Xiang, and Kaifan Ji
2024 ApJ 977 186
https://iopscience.iop.org/article/10.3847/1538-4357/ad9006/pdf

Observation of the Kelvin–Helmholtz Instability in a Solar Prominence
Heesu **Yang**1, Zhi Xu2, Eun-Kyung Lim1, Sujin Kim1,3, Kyung-Suk Cho1,3, Yeon-Han Kim1,3, Jongchul Chae4, Kyuhyoun Cho4, and Kaifan Ji2
2018 ApJ 857 115
http://sci-hub.tw/http://iopscience.iop.org/0004-637X/857/2/115/

6 June – A recurrent GMstorm (Dst~-39) under the influence of a high speed stream from CH738;

June 6-July 3
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

9 June
IRIS Burst Spectra Co-spatial to a Quiet-Sun Ellerman-like Brightening
C. J. **Nelson**1,2, N. Freij3, A. Reid2, R. Oliver3,4, M. Mathioudakis2, and R. Erdélyi
2017 ApJ 845 16
http://iopscience.iop.org/article/10.3847/1538-4357/aa7e7a/pdf

СИБИРСКИЙ РАДИОГЕЛИОГРАФ: ПЕРВЫЕ РЕЗУЛЬТАТЫ
Лесовой С.В., Алтынцев А.Т., Кочанов А.А., Гречнев В.В., Губин А.В., Жданов Д.А., Иванов Е.Ф., Уралов А.М., Кашапова Л.К., Кузнецов А.А., Мешалкина Н.С., Сыч Р.А.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том: 3Номер: 1 Год: **2017** pp. 3-16

13 Jun
Fast and Accurate Emulation of the SDO/HMI Stokes Inversion with Uncertainty Quantification
Richard E.L. **Higgins**, David F. Fouhey, Dichang Zhang, Spiro K. Antiochos, Graham Barnes, Todd Hoeksema, KD Leka, Yang Liu Peter W. Schuck, Tamas I. Gombosi
ApJ **2021**
https://arxiv.org/pdf/2103.17273.pdf

14-15 June - A co-rotating interaction region associated with the eastern part of CH739 and CH740 caused geomagnetic storming during the last part of the day. Kp=6, по Dst бури нет, есть положительный выброс

15 June
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

16 June

On the Formation Height of Low-corona and Chromospheric Channels of the Atmospheric Imaging Assembly (AIA) onboard the Solar Dynamics Observatory (SDO)
Y. **Sanjay**1, S. Krishna Prasad2, R. Erdélyi3, M. B. Korsós4, D. Banerjee2, and P. S. Rawat1
2024 ApJ 975 236
https://iopscience.iop.org/article/10.3847/1538-4357/ad7d8c/pdf

Exploring magnetic coupling of solar atmosphere through frequency modulations of 3-min slow magnetoacoustic waves

Ananya **Rawat**, Girjesh Gupta
Bulletin of Liège Royal Society of Sciences (proceedings of the third BINA workshop) **2023**
https://arxiv.org/pdf/2309.02398.pdf

Exploring source region of 3-min slow magnetoacoustic waves observed in coronal fan loops rooted in sunspot umbra
Ananya **Rawat**, Girjesh R. Gupta
MNRAS **2023**
https://arxiv.org/pdf/2308.03490.pdf

Temporal evolution of short-lived penumbral microjets
A. **Siu-Tapia**, L. R. Bellot Rubio, D. Orozco Suárez, R. Gafeira
A&A **2020**
https://arxiv.org/pdf/2007.15926.pdf

Wave amplitude modulation in fan loops as observed by AIA/SDO
Aishawnnya **Sharma**1,2, Durgesh Tripathi1, Robertus Erdélyi3,4, Girjesh R. Gupta5 and Gazi A. Ahmed2
A&A 638, A6 (**2020**)
https://www.aanda.org/articles/aa/pdf/2020/06/aa36667-19.pdf
https://arxiv.org/pdf/2004.05797.pdf

The Temperature-dependent Damping of Propagating Slow Magnetoacoustic Waves
S. Krishna **Prasad**, D. B. Jess, T. Van Doorsselaere
Frontiers in Astronomy and Space Sciences **2019**
https://arxiv.org/pdf/1908.00384.pdf

20 Jun

The dependence of the magnetism of a near-limb sunspot on height
M. **Benko** (1), H. Balthasar (2), P. Gömöry (1), C. Kuckein (3,4,5), S.J. González Manrique
A&A **2024**
https://arxiv.org/pdf/2403.14532

21 June

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

22 Jun

Research on the quantity and brightness evolution characteristics of Photospheric Bright Points groups
HaiCheng **Bai**
A&A **2022**
https://arxiv.org/pdf/2210.02635.pdf

29 June

Properties of stream interaction regions at Earth and Mars during the declining phase of SC 24
Paul **Geyer**, Manuela Temmer, Jingnan Guo, Stephan G. Heinemann
A&A **2021**
https://arxiv.org/pdf/2102.05948.pdf

2-3 July

Plumelets: Dynamic Filamentary Structures in Solar Coronal Plumes
V.M. **Uritsky**, C.E. DeForest, J.T. Karpen, C.R. DeVore, P. Kumar, N.E. Raouafi, P.F. Wyper
ApJ **2020**
https://arxiv.org/pdf/2012.05728.pdf

3 July

Determining the dynamics and magnetic fields in He I 10830 Å during a solar filament eruption
C. **Kuckein** (1), S. J. González Manrique (2, 3 and 4), L. Kleint (5), A. Asensio Ramos
A&A **2020**
https://arxiv.org/pdf/2006.10473.pdf

5 July - ~21 UT: заметная **эрупция W волокна**, B5 LDE, приличный CME

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

7 July

Probable detection of an eruptive filament from a superflare on a solar-type star
Kosuke **Namekata**, Hiroyuki Maehara, Satoshi Honda, +++
Nature Astronomy (**2021**)
https://arxiv.org/pdf/2112.04808.pdf

Small-scale motions in solar filaments as the precursors of eruptions
Daikichi **Seki**, Kenichi Otsuji, Hiroaki Isobe, Takako T. Ishii, Kiyoshi Ichimoto, Kazunari Shibata
PASJ **2019**
https://arxiv.org/ftp/arxiv/papers/1902/1902.08718.pdf

10 July

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

EOVSA Implementation of a Spectral Kurtosis Correlator for Transient Detection and Classification
Nita, Gelu M.; Hickish, Jack; MacMahon, David; Gary, Dale E.
Journal of Astronomical Instrumentation Vol. 5, No. 4 (**2016**) 1641009
https://arxiv.org/pdf/1702.05391.pdf
https://www.worldscientific.com/doi/pdf/10.1142/S2251171716410099

12 July

The Propagation of Coherent Waves Across Multiple Solar Magnetic Pores
S. D. T. **Grant**, D. B. Jess, M. Stangalini, S. Jafarzadeh, V. Fedun, G. Verth, P. H. Keys, S. P. Rajaguru, H. Uitenbroek, C. D. Macbride, W. Bate, C. A. Gilchrist-Millar
ApJ **2022**
https://arxiv.org/pdf/2209.06280.pdf

Magnetoacoustic Wave Energy Dissipation in the Atmosphere of Solar Pores
Caitlin A. **Gilchrist-Millar**, David B. Jess, Samuel D. T. Grant, Peter H. Keys, Christian Beck, Shahin Jafarzadeh, Julia M. Rield, Tom Van Doorselaere, Basilio Ruiz Cobo
Philoophical Transactions A **2020**
https://arxiv.org/pdf/2007.11594.pdf

12-24 July

Numerical Simulations of the Evolution of Solar Active Regions: the Complex AR12565 and AR12567
Cristiana **Dumitrache**
Advances in Astrophysics, vol.2, No.2, 103-116, **2017**

14 July

Spatial structure of resonance cavities in sunspots

Robert **Sych**, Xiaoshuai Zhu, Yao Chen, Fabao Yan
MNRAS Volume 529, Issue 2, April **2024**, Pages 967–978,
https://doi.org/10.1093/mnras/stae575
https://academic.oup.com/mnras/article-pdf/doi/10.1093/mnras/stae575/56900200/stae575.pdf

High-resolution Observation of Moving Magnetic Features
Qin **Li**1, Na Deng1,2, Ju Jing1,2, Chang Liu1,2, and Haimin Wang
2019 ApJ 876 129
sci-hub.se/10.3847/1538-4357/ab18aa

The Magnetic Response of the Solar Atmosphere to Umbral Flashes
S.J. **Houston**, D.B. Jess, A. Asensio Ramos, S.D.T. Grant, C. Beck, A.A. Norton, S. Krishna Prasad
ApJ **2018**
https://arxiv.org/pdf/1803.00018.pdf

15 July
Spatially resolved measurements of the solar photospheric oxygen abundance
Melania Cubas **Armas**, Andrés Asensio Ramos, Héctor Socas-Navarro
A&A **2020**
https://arxiv.org/pdf/2010.02151.pdf

July 17: Две крупные (площадь по 350 мдп) располагаются очень близко друг к другу.
~08 UT эрупция N07E15, LDE C1.4
A faint CME was likely associated with a long duration C1 event in ARs 12565/12567.

18 July

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

Identification and Extraction of Solar Radio Spikes Based on Deep Learning
Y. C. **Hou**, Q. M. Zhang, S. W. Feng, Q. F. Du, C. L. Gao, Y. L. Zhao & Q. Miao
Solar Physics volume 295, Article number: 146 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01718-9.pdf

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

High-resolution Spectroscopic Imaging of Counter-streaming Motions in Solar Active Region Magnetic Loops

Xu **Yang**1, Wenda Cao1,2, Haisheng Ji3,4, Parida Hashim5,6, and Jinhua Shen5
2019 ApJL 881 L25
sci-hub.se/10.3847/2041-8213/ab365b

Harmonics of Solar Radio Spikes at Metric Wavelengths
Shiwei **Feng**, Yao Chen, Chuanyang Li, Bing Wang, Zhao Wu, Xiangliang Kong, Qingfu Du, Junrui Zhang, Guoqing Zhao
Solar Phys. **2018**
https://arxiv.org/pdf/1802.03541.pdf

18-19 July
Spectropolarimetric Observations of Solar Noise Storms at Low Frequencies
V. **Mugundhan**, R. Ramesh, C. Kathiravan, G. V. S. Gireesh, Aathira Hegde
Solar Physics March **2018**, 293:41
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1260-2.pdf

A Solar Radio Dynamic Spectrograph with Flexible Temporal-spectral Resolution
Qing-Fu **Du**, Lei Chen, Yue-Chang Zhao, Xin Li, Yan Zhou, Jun-Rui Zhang, Fa-Bao Yan, Shi-Wei Feng, Chuan-Yang Li, Yao Chen
Research in Astronomy and Astrophysics **2017**
https://arxiv.org/pdf/1706.07915.pdf

19-20 July – Пришла УВ, началась буря

19-31 Jul
Magnetosheath jet occurrence rate in relation to CMEs and SIRs
Florian **Koller**, Manuela Temmer, Luis Preisser, Ferdinand Plaschke, Paul Geyer, Lan K Jian, Owen Wyn Roberts, Heli Hietala, Adrian T. LaMoury
JGR **Volume127, Issue4** e2021JA030124 **2022**
https://www.essoar.org/doi/abs/10.1002/essoar.10508761.2
https://doi.org/10.1029/2021JA030124
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2021JA030124

20 July
Solar Type IIIb Radio Bursts as Tracers for Electron Density Fluctuations in the Corona
V. **Mugundhan**, K. Hariharan, R. Ramesh
Solar Physics November **2017**, 292:155
https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1181-5.pdf

20-22 July
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

21 July

Simulating Solar Flare Irradiance with Multithreaded Models of Flare Arcades
Jeffrey W. **Reep**, Harry P. Warren, Christopher S. Moore, Crisel Suarez, Laura A. Hayes
ApJ **2020**
https://arxiv.org/pdf/2003.10505.pdf

УСКОРЕНИЕ ЭЛЕКТРОНОВ И СУБСЕКУНДНЫЕ ВРЕМЕННЫЕ ЗАДЕРЖКИ ЖЕСТКОГО РЕНТГЕНОВСКОГО ИЗЛУЧЕНИЯ СОЛНЕЧНЫХ ВСПЫШЕК ПО ДАННЫМ РОССИЙСКОГО СПУТНИКА

ЛОМОНОСОВ
Цап Ю.Т., Петров В.Л., Яшин И.В., Богомолов В.В., Богомолов А.В., Свертилов С.И., Панасюк М.И., Гольдварг Т.Б., Моторина Г.Г., Копылова Ю.Г., Мягкова И.Н.
ПАЖ Том: 56Номер: 6 Год: **2018** Страницы: 404-409

21-23 Jul

Estimations of Elemental Abundances During Solar Flares Observed in Soft X-rays by the MinXSS-1 CubeSat Mission

Crisel **Suarez**, Christopher S. Moore
ApJ **2023**
https://arxiv.org/pdf/2308.16235.pdf

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

22 July
Sunspot Light Walls Suppressed by Nearby Brightenings
Shuhong **Yang**, Jun Zhang, Robertus Erdélyi, Yijun Hou, Xiaohong Li, Limei Yan
ApJL **2017**
https://arxiv.org/pdf/1706.07158.pdf

Plasma Brightenings in a Failed Solar Filament Eruption
Y. **Li**, M. D. Ding
ApJ **2017**
https://arxiv.org/pdf/1702.05136.pdf

23 July – Две-три M-вспышки из Region 2567 (N02W74)
- 02:11, M5.1, микроволны не указаны,
- 05:16, M7.6, S5~460
- 05:31, M5.5, S9~1100, II/1, слабые, короткие протоны, CME

Seeds and Sequences of Element Abundances in Solar Energetic Particle Events **Review**
Donald V. **Reames**
Space Sci. Rev **2024**
https://arxiv.org/pdf/2404.05048.pdf **File**

Observational Characteristics of solar EUV waves **Review**

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

Element Abundances in Impulsive Solar Energetic-Particle Events

Donald **Reames**
2023
https://arxiv.org/ftp/arxiv/papers/2309/2309.09327.pdf **File**

Estimations of Elemental Abundances During Solar Flares Observed in Soft X-rays by the MinXSS-1 CubeSat Mission

Crisel **Suarez**, Christopher S. Moore
ApJ **2023**
https://arxiv.org/pdf/2308.16235.pdf

Study of Time Evolution of Thermal and Non-Thermal Emission from an M-Class Solar Flare
Shunsaku **Nagasawa**, Tomoko Kawate, Noriyuki Narukage, Tadayuki Takahashi, Amir Caspi, Thomas N. Woods
ApJ **2022**
https://arxiv.org/pdf/2205.14369.pdf

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

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

Twin Null-Point-Associated Major Eruptive Three-Ribbon Flares with Unusual Microwave Spectra
V.V. **Grechnev**, N.S. Meshalkina, A.M. Uralov, A.A. Kochanov, S.V. Lesovoi, I.I. Myshyakov, V.I. Kiselev, D.A. Zhdanov, A.T. Altyntsev, M.V. Globa
Solar Phys. **2020**
https://arxiv.org/pdf/2009.10350.pdf

Simulating Solar Flare Irradiance with Multithreaded Models of Flare Arcades
Jeffrey W. **Reep**, Harry P. Warren, Christopher S. Moore, Crisel Suarez, Laura A. Hayes
ApJ **2020**
https://arxiv.org/pdf/2003.10505.pdf

Результаты работы нового спектрополяриметра для наблюдения солнечного радиоизлучения в диапазоне 50–500 МГц.
Муратова Н.О., Муратов А.А., Кашапова Л.К.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 5. **2019**. № 3. С. 3–10.
https://naukaru.ru/ru/storage/view/39749

Flow instabilities in solar jets in their upstream and downstream regimes
Xiaohong **Li,** Jun Zhang, Shuhong Yang, Yijun Hou
ApJ **2019**
https://arxiv.org/pdf/1904.05120.pdf

Observations of Two Successive EUV Waves and their Mode Conversion
R. **Chandra**, P. F. Chen, R. Joshi, B. Joshi, B. Schmieder
ApJ **2018**
https://arxiv.org/pdf/1806.11350.pdf

Joint MinXSS and RHESSI Flare X-ray Spectra between 1 and 15 keV
Chris **Moore**, Brian Dennis and the MinXSS Science
RHESSI Science Nuggets # 316 Feb **2018**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Joint_MinXSS_and_RHESSI_Flare_X-ray_Spectra_between_1_and_15_keV

Strength of the Solar Coronal Magnetic Field – A Comparison of Independent Estimates Using Contemporaneous Radio and White-Light Observations
Anshu **Kumari**, R. Ramesh, C. Kathiravan, T. J. Wang
Solar Physics November **2017**, 292:161

СИБИРСКИЙ РАДИОГЕЛИОГРАФ: ПЕРВЫЕ РЕЗУЛЬТАТЫ
Лесовой С.В., Алтынцев А.Т., Кочанов А.А., Гречнев В.В., Губин А.В., Жданов Д.А., Иванов Е.Ф., Уралов А.М., Кашапова Л.К., Кузнецов А.А., Мешалкина Н.С., Сыч Р.А.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том: 3Номер: 1 Год: **2017** pp. 3-16

New Solar Irradiance Measurements from the Miniature X-Ray Solar Spectrometer CubeSat
Thomas N. Woods, Amir Caspi, Phillip C. Chamberlin, Andrew Jones, Richard Kohnert, James Paul Mason, Christopher S. Moore, Scott Palo, Colden Rouleau, Stanley C. Solomon, Janet Machol, Rodney Viereck
ApJL **2016**
https://arxiv.org/pdf/1610.01936v1.pdf

24 July
Two-stage energy release process of a confined flare with double HXR peaks
Hao **Ning**, Yao Chen, Zhao Wu, Yang Su, Hui Tian, Gang Li, Guohui Du, Hongqiang Song
ApJ **2018**
https://arxiv.org/pdf/1801.06641.pdf

Pulsations in the Earth's Lower Ionosphere Synchronized with Solar Flare Emission
Laura A. **Hayes**, Peter T. Gallagher, Joseph McCauley, Brian R. Dennis, Jack Ireland, Andrew Inglis
JGR **2017**
https://arxiv.org/pdf/1710.01725.pdf

25 July
О калибровке изображений Сибирского радиогелиографа
Федотова А.Ю., Алтынцев А.Т., Кочанов А.А., Лесовой С.В., Мешалкина Н.С.
Солнечно-земная физика. **2019**. Т. 5. No 4 С. 34–41.
https://naukaru.ru/ru/storage/viewWindow/43514

26 July

Properties of stream interaction regions at Earth and Mars during the declining phase of SC 24
Paul **Geyer**, Manuela Temmer, Jingnan Guo, Stephan G. Heinemann
A&A **2021**
https://arxiv.org/pdf/2102.05948.pdf

Joint X-Ray, EUV, and UV Observations of a Small Microflare
Iain G. **Hannah**1, Lucia Kleint2,3, Säm Krucker2,4, Brian W. Grefenstette5, Lindsay Glesener6, Hugh S. Hudson1,4, Stephen M. White7, and David M. Smith8
2019 ApJ 881 109
https://iopscience.iop.org/article/10.3847/1538-4357/ab2dfa/pdf
https://arxiv.org/pdf/1812.09214.pdf

NuSTAR Detection of X-Ray Heating Events in the Quiet Sun
Matej **Kuhar**, Säm Krucker, Lindsay Glesener, Iain G. Hannah, Brian W. Grefenstette, David M. Smith, Hugh S. Hudson, Stephen M. White
ApJL **2018**
https://arxiv.org/pdf/1803.08365.pdf

28 July - During the late hours of July 28th, a **filament of magnetism erupted** on the sun, slingshotting a cloud of plasma (**CME**) into space. **304 A. Сдвоенная центральная эрупция без SXR.**

1-5 Aug

The Global Survey Method Applied to Ground-level Cosmic Ray Measurements
A. **Belov**1 · E. Eroshenko1 · V. Yanke1 · V. Oleneva1 ·A. Abunin1 · M. Abunina1 · A. Papaioannou2,3 · H. Mavromichalaki2
Solar Phys (**2018**) 293:68
https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1277-6.pdf

1 Aug–15 Nov

Recurrent Solar Energetic Particle Flux Enhancements Observed near Earth and Mars
C. **Krishnaprasad**, Smitha V. Thampi, Anil Bhardwaj, Christina O. Lee, K. Kishore Kumar, Tarun K. Pant
ApJ **2020**
https://arxiv.org/pdf/2010.04122.pdf

2 Aug

Recurrent Solar Energetic Particle Flux Enhancements Observed near Earth and Mars
C. **Krishnaprasad**, Smitha V. Thampi, Anil Bhardwaj, Christina O. Lee, K. Kishore Kumar, Tarun K. Pant
ApJ **2020**
https://arxiv.org/pdf/2010.04122.pdf

Characteristics and Energy Dependence of Recurrent Galactic Cosmic-Ray Flux Depressions and of a Forbush Decrease with LISA Pathfinder
M. **Armano**1, H. Audley2, J. Baird3, M. Bassan4, S. Benella5,6, P. Binetruy7,24, M. Born2, D. Bortoluzzi8, A. Cavalleri9, A. Cesarini5 …..
2018 ApJ 854 113
http://sci-hub.tw/http://iopscience.iop.org/0004-637X/854/2/113/

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

2-3 Aug

A New Method to Model Magnetic Cloud-driven Forbush Decreases: The 2016 August 2 Event
Simone **Benella**1,2,6, Monica Laurenza3, Rami Vainio4, Catia Grimani1,2, Giuseppe Consolini3, Qiang Hu5, and Alexandr Afanasiev4
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6 Aug

Observational study of intermittent solar jets: p-mode modulation
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Preliminary Discussion on the Current Sheet
Tao **Ding**1, Jun Zhang1, Yuan Fang1, and Zhiying Ma1

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9 Aug

СИБИРСКИЙ РАДИОГЕЛИОГРАФ: ПЕРВЫЕ РЕЗУЛЬТАТЫ
Лесовой С.В., Алтынцев А.Т., Кочанов А.А., Гречнев В.В., Губин А.В., Жданов Д.А., Иванов Е.Ф., Уралов А.М., Кашапова Л.К., Кузнецов А.А., Мешалкина Н.С., Сыч Р.А.
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Fast and Accurate Emulation of the SDO/HMI Stokes Inversion with Uncertainty Quantification
Richard E.L. **Higgins**, David F. Fouhey, Dichang Zhang, Spiro K. Antiochos, Graham Barnes, Todd Hoeksema, KD Leka, Yang Liu Peter W. Schuck, Tamas I. Gombosi
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Small-scale motions in solar filaments as the precursors of eruptions
Daikichi **Seki**, Kenichi Otsuji, Hiroaki Isobe, Takako T. Ishii, Kiyoshi Ichimoto, Kazunari Shibata
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11 Aug

The Formation of a Sunspot Penumbra Sector in Active Region NOAA 12574
Qiaoling **Li**1,2, Xiaoli Yan1,3, Jincheng Wang1,2, DeFang Kong1,3, Zhike Xue1,3,Liheng Yang1,3, and Wenda Cao4
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Formation of an active region filament driven by a series of jets
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The Alignment of High-resolution Solar Prominence Images Observed by the New Vacuum Solar Telescope
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Properties of stream interaction regions at Earth and Mars during the declining phase of SC 24
Paul **Geyer**, Manuela Temmer, Jingnan Guo, Stephan G. Heinemann
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21-24 Aug

Modeling energetic proton transport in a corotating interaction region - An energetic particle event observed by STEREO-A from 21 to 24 August 2016
Xinyi **Tao**, Fang Shen, Wenwen Wei, Yuji Zhu, Xi Luo and XueShang Feng
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Magnetic Outbreak Associated with Exploding Granulations
Chunlan **Jin**1, Guiping Zhou1, Guiping Ruan2, T. Baildon3,4, Wenda Cao3,4, and Jingxiu Wang1,5
2023 ApJL 942 L3
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Fan-shaped jet close to a light bridge
Y. **Liu**, G.P. Ruan, B. Schmieder, S. Masson, Y. Chen, J.T. Su, B. Wang, X.Y. Bai, Y. Su, Wenda Cao
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FINE STRUCTURE EVENTS IN MICROWAVE EMISSION DURING SOLAR MINIMUM
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Jaroslav **Dudík**, Giulio Del Zanna, Ján Rybák, Juraj Lörinčík, Elena Dzifčáková, Helen E. Mason, Steven Tomczyk, Michael Galloy
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Charge sign dependence of recurrent Forbush decreases in 2016–2017
L. **Romaneehsen**,⋆, B. Heber and J. Marquardt
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3 Sept
Surges and Si IV bursts in the solar atmosphere. Understanding IRIS and SST observations through RMHD experiments
D. **Nóbrega-Siverio**, J. Martínez-Sykora, F. Moreno-Insertis, L. Rouppe van der Voort
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Ellerman bombs and UV bursts: reconnection at different atmospheric layers
Ada **Ortiz**, Viggo H. Hansteen, Daniel Nóbrega-Siverio, Luc Rouppe van der Voort
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Dissecting bombs and bursts: non-LTE inversions of low-atmosphere reconnection in SST and IRIS observations
G. J. M. **Vissers**, J. de la Cruz Rodriguez, T. Libbrecht, L. H. M. Rouppe van der Voort, G. B. Scharmer, M. Carlsson
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Intermittent reconnection and plasmoids in UV bursts in the low solar atmosphere
L. Rouppe **van der Voort**, B. De Pontieu, G.B. Scharmer, J. de la Cruz Rodriguez, J. Martinez-Sykora, D. Nobrega-Siverio, L.J. Guo, S. Jafarzadeh, T.M.D. Pereira, V.H. Hansteen, M. Carlsson, G. Vissers
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4 Sept

High Resolution Observations of the Low Atmospheric Response to Small Coronal Heating Events in an Active Region Core

Paola **Testa** (1), Helle Bakke (2,3), Luc Rouppe van der Voort (2,3), Bart De Pontieu
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Small-scale motions in solar filaments as the precursors of eruptions
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Penumbral decay observed in active region NOAA 12585⋆
M. **Murabito**1, S. L. Guglielmino2, I. Ermolli1, P. Romano2, S. Jafarzadeh3,4 and L. H. M. Rouppe van der Voort3,4
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Recurrent Solar Energetic Particle Flux Enhancements Observed near Earth and Mars
C. **Krishnaprasad**, Smitha V. Thampi, Anil Bhardwaj, Christina O. Lee, K. Kishore Kumar, Tarun K. Pant
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Observationally based models of penumbral microjets
S. Esteban **Pozuelo**, J. de la Cruz Rodriguez, A. Drews, L. Rouppe van der Voort, G.B. Scharmer, M. Carlsson
ApJ **2018**
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Chromospheric recurrent jets in a sunspot group and their inter-granular origin
Jie **Zhao**, Jiangtao Su, Xu Yang, Hui Li, Brigitte Schmieder, Kwangsu Ahn, Wenda Cao
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Spatio-temporal analysis of chromospheric heating in a plage region
R. **Morosin**, J. de la Cruz Rodríguez, C.J. Díaz Baso, J. Leenaarts
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A method for global inversion of multi-resolution solar data
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Physical properties of bright Ca II K fibrils in the solar chromosphere
Sepideh **Kianfar**, Jorrit Leenaarts, Sanja Danilovic, Jaime de la Cruz Rodríguez, Carlos José Díaz Baso
A&A **2020**
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Properties of stream interaction regions at Earth and Mars during the declining phase of SC 24
Paul **Geyer**, Manuela Temmer, Jingnan Guo, Stephan G. Heinemann
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19 Sept –

Solar Atmospheric Heating Due to Small-scale Events in an Emerging Flux Region
Rahul **Yadav**, Maria D. Kazachenko, Andrey N. Afanasyev, Jaime de la Cruz Rodríguez, Jorrit Leenaarts
ApJ **2023**
https://arxiv.org/pdf/2309.06452.pdf

On chromospheric heating during flux emergence in the solar atmosphere
Jorrit **Leenaarts**, Jaime de la Cruz Rodríguez, Sanja Danilovic, Göran Scharmer, Mats Carlsson
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https://arxiv.org/pdf/1712.00474.pdf

A flare in the deep solar atmosphere
Richard **Schwartz**, Hugh Hudson
RHESSI Science Nugget No. 282, **2016**
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/A_flare_in_the_deep_solar_atmosphere
In fact the duration of the GOES event is only about 15 seconds; the X-ray data strongly suggest a compact, low-altitude source. These have a standard interpretation in terms of flux *transfer between compact and large-scale fields.*

20 September

Magnetic reconnection at the earliest stage of solar flux emergence
Hui **Tian**, Xiaoshuai Zhu, Hardi Peter, Jie Zhao, Tanmoy Samanta, Yajie Chen
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22 September

Automated Coronal Hole Identification via Multi-Thermal Intensity Segmentation
Tadhg M. **Garton**, Peter T. Gallagher, Sophie A. Murray
Journal of Space Weather and Space Climate **2017**
https://arxiv.org/pdf/1711.11476.pdf

23 Sep

Granular-scale Magnetic Flux Emergence and its Associated Features in an Emerging Active Region
Jinhua **Shen**1,2,3, Zhi Xu4, Jianping Li3, and Haisheng Ji3
2022 ApJ 925 46
https://iopscience.iop.org/article/10.3847/1538-4357/ac37c3/pdf

24 September

High-resolution imaging and near-infrared spectroscopy of penumbral decay
M. **Verma**1, C. Denker1, H. Balthasar1, C. Kuckein1, R. Rezaei2, M. Sobotka3, N. Deng4,5, H. Wang4,5, A. Tritschler6, M. Collados2, A. Diercke1,7 and S. J. González Manrique1,8
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High-Cadence Imaging and Imaging Spectroscopy at the GREGOR Solar Telescope – A Collaborative Research Environment for High-Resolution Solar Physics
C. **Denker**, C. Kuckein, M. Verma, S. J. González Manrique, A. Diercke, H. Enke, J. Klar, H. Balthasar, R. E. Louis, E. Dineva
Astrophysical Journal Supplement Series **2018**
https://arxiv.org/pdf/1802.10146.pdf

High-resolution imaging and near-infrared spectroscopy of penumbral decay
M. **Verma**, C. Denker, H. Balthasar, C. Kuckein, R. Rezaei, M. Sobotka, N. Deng, H. Wang, A. Tritschler, M. Collados, A. Diercke, S.J. González Manrique
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https://arxiv.org/pdf/1801.03686.pdf

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A magnetic reconnection event in the solar atmosphere driven by relaxation of a twisted arch filament system
Zhenghua **Huang**, Chaozhou Mou, Hui Fu, Linhua Deng, Bo Li, Lidong Xia
ApJL 2018
https://arxiv.org/pdf/1801.05983.pdf

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Sunspot Light Walls Suppressed by Nearby Brightenings
Shuhong **Yang**, Jun Zhang, Robertus Erdélyi, Yijun Hou, Xiaohong Li, Limei Yan
ApJL **2017**
https://arxiv.org/pdf/1706.07158.pdf

29 Sept

Recurrent Solar Energetic Particle Flux Enhancements Observed near Earth and Mars
C. **Krishnaprasad**, Smitha V. Thampi, Anil Bhardwaj, Christina O. Lee, K. Kishore Kumar, Tarun K. Pant
ApJ **2020**
https://arxiv.org/pdf/2010.04122.pdf

1 Oct – ~01-03 UT: крупная **эрупция NE волокна**, без рентгена, см. NOBE, восточный CME
http://spaceweather.gmu.edu/seeds/dailymkmovie.php?cme=20161001&r

~15 UT: сдвоенный EN и WN CME, видимо, на залимбовой половине

Small-scale motions in solar filaments as the precursors of eruptions
Daikichi **Seki**, Kenichi Otsuji, Hiroaki Isobe, Takako T. Ishii, Kiyoshi Ichimoto, Kazunari Shibata
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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

8 oct - A small magnetic filament in the sun's northern hemisphere erupted on Oct. 8th around 1600 UT. The explosion hurled a faint **halo CME**
http://spaceweather.gmu.edu/seeds/dailymkmovie.php?cme=20161009&r

A Stealth CME Bracketed between Slow and Fast Wind Producing Unexpected Geo-effectiveness
Wen **He**, Ying D.Liu, Huidong Hu, Rui Wang, Xiaowei Zhao
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https://arxiv.org/pdf/1805.03128.pdf

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Investigating Remote-sensing Techniques to Reveal Stealth Coronal Mass Ejections
Erika **Palmerio**, Nariaki V. Nitta, Tamitha Mulligan, Marilena Mierla, Jennifer O'Kane, Ian G. Richardson, Suvadip Sinha, Nandita Srivastava, Stephanie L. Yardley, Andrei N. Zhukov
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Interplanetary Magnetic Flux Rope Observed at Ground Level by HAWC
S. **Akiyama**, R. Alfaro, C. Alvarez, J. R. Angeles Camacho, +++
2020 ApJ 905 73
https://doi.org/10.3847/1538-4357/abc344
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Recurrent Solar Energetic Particle Flux Enhancements Observed near Earth and Mars
C. **Krishnaprasad**, Smitha V. Thampi, Anil Bhardwaj, Christina O. Lee, K. Kishore Kumar, Tarun K. Pant
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9-13 Oct
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**

12 Oct C-class flare

Deriving the interaction point between a Coronal Mass Ejection and High Speed Stream: A case study
Akshay Kumar **Remeshan**, Mateja Dumbovic, Manuela Temmer
ApJ **2024**
https://arxiv.org/pdf/2410.00615

Newly formed downflow lanes in exploding granules in the solar photosphere
M. **Ellwarth**, C. E. Fischer, N. Vitas, S. Schmiz, W. Schmidt
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https://arxiv.org/pdf/2107.00582.pdf

The Dark Side of Penumbral Microjets: Observations in Hα
D. **Buehler**, S. Esteban Pozuelo, J. de la Cruz Rodriguez, and G. B. Scharmer
2019 ApJ 876 47
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Three-dimensional modeling of the Ca II H&K lines in the solar atmosphere
Johan P. **Bjørgen**, Andrii V. Sukhorukov, Jorrit Leenaarts, Mats Carlsson, Jaime de la Cruz Rodríguez, Göran B. Scharmer, Viggo H. Hansteen
A&A **2017**
https://arxiv.org/pdf/1712.01045.pdf

Hard X-ray Polarimetry from Tian Gong 2
Wojtek **Hajdas**
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http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Hard_X-ray_Polarimetry_from_Tian_Gong_2

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Deriving the interaction point between a Coronal Mass Ejection and High Speed Stream: A case study
Akshay Kumar **Remeshan**, Mateja Dumbovic, Manuela Temmer
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13 Oct – **приличная буря Dst~-105 от эрупции 9-ого**

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
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DOI 10.1134/S0016793223600418

Interplanetary Magnetic Flux Rope Observed at Ground Level by HAWC
S. **Akiyama**, R. Alfaro, C. Alvarez, J. R. Angeles Camacho, +
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A Stealth CME Bracketed between Slow and Fast Wind Producing Unexpected Geo-effectiveness
Wen **He**, Ying D.Liu, Huidong Hu, Rui Wang, Xiaowei Zhao
ApJ 860, 78 **2018**
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Global Coronal Magnetic Field Estimation Using Bayesian Inference
Upasna **Baweja**, Vaibhav Pant, Iñigo Arregui
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Newly formed downflow lanes in exploding granules in the solar photosphere
M. **Ellwarth**, C. E. Fischer, N. Vitas, S. Schmiz, W. Schmidt
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Global maps of the magnetic field in the solar corona
Zihao **Yang**, Christian Bethge, Hui Tian, Steven Tomczyk, Richard Morton, Giulio Del Zanna, Scott W. McIntosh, Bidya Binay Karak, Sarah Gibson, Tanmoy Samanta, Jiansen He, Yajie Chen, Linghua Wang
Science, 369, 694 (**2020**)
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Mapping the magnetic field in the solar corona through magnetoseismology
Zihao **Yang**, Hui Tian, Steven Tomczyk, Richard Morton, Xianyong Bai, Tanmoy Samanta, Yajie Chen
Sci China Tech Sci (**2020**)
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24 Oct
Automated Coronal Hole Identification via Multi-Thermal Intensity Segmentation
Tadhg M. **Garton**, Peter T. Gallagher, Sophie A. Murray
Journal of Space Weather and Space Climate **2017**
https://arxiv.org/pdf/1711.11476.pdf

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

26 Oct

Recurrent Solar Energetic Particle Flux Enhancements Observed near Earth and Mars
C. **Krishnaprasad**, Smitha V. Thampi, Anil Bhardwaj, Christina O. Lee, K. Kishore Kumar, Tarun K. Pant
ApJ **2020**
https://arxiv.org/pdf/2010.04122.pdf

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

31 Oct

Evidence for Parametric Decay Instability in the Lower Solar Atmosphere
Michael **Hahn**1, Xiangrong Fu2, and Daniel Wolf Savin1
2022 ApJ 933 52
https://iopscience.iop.org/article/10.3847/1538-4357/ac7147/pdf

Automated Coronal Hole Identification via Multi-Thermal Intensity Segmentation
Tadhg M. **Garton**, Peter T. Gallagher, Sophie A. Murray

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3 Nov

Mapping the magnetic field in the solar corona through magnetoseismology
Zihao **Yang**, Hui Tian, Steven Tomczyk, Richard Morton, Xianyong Bai, Tanmoy Samanta, Yajie Chen
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4 Nov

Small-scale motions in solar filaments as the precursors of eruptions
Daikichi **Seki**, Kenichi Otsuji, Hiroaki Isobe, Takako T. Ishii, Kiyoshi Ichimoto, Kazunari Shibata
PASJ **2019**
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5 Nov – A filament eruption occurred mainly in the northwest quadrant starting at 01h UTC in SDO imagery. A partial halo CME was observed afterwards in LASCO images. **304 A**

Sun-as-a-star Analyses of Various Solar Active Events Using Hα Spectral Images Taken by SMART/SDDI
Takato **Otsu**, Ayumi Asai, Kiyoshi Ichimoto, Takako T. Ishii, Kosuke Namekata
ApJ **2022**
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Small-scale Turbulent Motion of the Plasma in a Solar Filament as the Precursor of Eruption
Daikichi **Seki**, Kenichi Otsuji, Hiroaki Isobe, Giulio Del Zanna, Takako T. Ishii, Takahito Sakaue, Kiyoshi Ichimoto, Kazunari Shibata
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Daikichi **Seki**, Kenichi Otsuji, Hiroaki Isobe, Takako T. Ishii, Kiyoshi Ichimoto, Kazunari Shibata
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Space Weather Prediction from the Ground: Case of CHAIN
Daikichi **Seki**, Satoru Ueno, Hiroaki Isobe, Kenichi Otsuji, Denis P. Cabezas, Kiyoshi Ichimoto, Kazunari Shibata, CHAIN team
Sun and Geosphere 2018
https://arxiv.org/ftp/arxiv/papers/1808/1808.06295.pdf

Increase in the amplitude of line-of-sight velocities of the small-scale motions in a solar filament before eruption

Daikichi **Seki**, Kenichi Otsuji, Hiroaki Isobe, Takako T. Ishii, Takahito Sakaue, Kumi Hirose
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12-14 Nov

Three-day Forecasting of Solar Wind Speed Using SDO/AIA Extreme-ultraviolet Images by a Deep-learning Model

Jihyeon **Son**1, Suk-Kyung Sung2, Yong-Jae Moon1,2, Harim Lee2, and Hyun-Jin Jeong2
2023 ApJS 267 45
https://iopscience.iop.org/article/10.3847/1538-4365/ace59a/pdf

Matching temporal signatures of solar features to their corresponding solar wind outflows

Diego de **Pablos**, David M. Long, Christopher J. Owen, Gherardo Valori, Georgios Nicolaou, Louise K. Harra
Solar Phys. **2021**
https://arxiv.org/pdf/2103.09077.pdf

14 Nov - ~14 UT: эрупция восточно-центрального волокна без повышения рентгена. **304 A**

15 Nov - ~14 UT: эрупция NE/центрального волокна без повышения рентгена. **304 A**

16 Nov
A Uniform Series of Low-Latitude Coronal Holes in 1973–2018
A. **Hamada**, T. Asikainen & K. Mursula
Solar Physics volume 296, Article number: 40 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01781-w.pdf

17 Nov-13 Dec
Charge sign dependence of recurrent Forbush decreases in 2016–2017
L. **Romaneehsen**,⋆, B. Heber and J. Marquardt
A&A, 690, A31 (**2024**)
https://www.aanda.org/articles/aa/pdf/2024/10/aa49836-24.pdf

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

22-25 Nov
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

23 Nov
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