

2017 See <https://www.spaceweather.com> <https://www.solarmonitor.org>

ftp://ftp.sec.noaa.gov/pub/warehouse/2017/2017_plots/proton/
ftp://ftp.sec.noaa.gov/pub/warehouse/2017/2017_plots/xray/

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. Benella^{5,6}, P. Binetruy^{7,24}, 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/>

2 Jan

Magnetic Flux Cancellation as the Trigger Mechanism of Solar Coronal Jets

Riley A. [McGlasson](#), [Navdeep K. Panesar](#), [Alphonse C. Sterling](#), [Ronald Moore](#)

ApJ 2019

<https://arxiv.org/pdf/1906.06452.pdf>

3 Jan

Accelerating and Supersonic Density Fluctuations in Coronal Hole Plumes: Signature of Nascent Solar Winds

Il-Hyun [Cho](#), [Valery M. Nakariakov](#), [Yong-Jae Moon](#), [Jin-Yi Lee](#), [Dae Jung Yu](#), [Kyung-Suk Cho](#), [Vasyl Yurchyshyn](#), [Harim Lee](#)

ApJL 2020

<https://arxiv.org/pdf/2008.07848.pdf>

Magnetic Flux Cancellation as the Trigger of Solar Coronal-Hole Coronal Jets

Navdeep K. [Panesar](#), [Alphonse C. Sterling](#), [Ronald L. Moore](#)

ApJ 2018

<https://arxiv.org/pdf/1801.05344.pdf>

7 Jan

Dynamics of Descending Knots in a Solar Prominence and Their Possible Contributions to the Heating of the Local Corona

Yi [Bi](#)^{1,2,3}, Bo Yang^{1,3}, Ting Li^{2,4}, Yan Dong^{1,3}, and Kaifan Ji^{1,3}

2020 ApJL 891 L40

<https://doi.org/10.3847/2041-8213/ab79a2>

<https://arxiv.org/pdf/2003.08075.pdf>

13 Jan

Another Look at Erupting Minifilaments at the Base of Solar X-Ray Polar Coronal "Standard" and "Blowout" Jets

[Alphonse C. Sterling](#), [Ronald L. Moore](#), [Navdeep K. Panesar](#)

ApJ 2022

<https://arxiv.org/pdf/2201.12314.pdf>

17-18 Jan

Corotating Interaction Regions during Solar Cycle 24: A Study on Characteristics and Geoeffectiveness

Rajkumar [Hajra](#) & [Jibin V. Sunny](#)

[Solar Physics](#) volume 297, Article number: 30 (2022)

<https://link.springer.com/content/pdf/10.1007/s11207-022-01962-1.pdf>

18 Jan

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>

22 Jan

Observations of the Sun using LOFAR Baldy station

[B.P.Dabrowski](#), [D.E.Morosanbg](#)[R.A.Fallows](#)[L.Błaszkiwicz](#)[A.Krankowska](#)[J.Magdalenice](#)[C.Vocksf](#)
[G.Mann](#)[P.Zuccac](#)[T.Sidorowicz](#)[M.Hajduka](#)[K.Kotulaka](#)[A.Frońa](#)[K.Śniadkowska](#)

Advances in Space Research Volume 62, Issue 7, 1 October **2018**, Pages 1895-1903

<http://sci-hub.tw/https://linkinghub.elsevier.com/retrieve/pii/S0273117718305210>

25 Jan

Quasi-periodic Pulsations in a Solar Microflare

V. M. [Nakariakov](#)^{1,2}, S. Anfinogentov³, A. A. Storozhenko², E. A. Kurochkin², V. M. Bogod^{2,4}, I. N. Sharykin^{3,5}, and T. I. Kaltman²

2018 ApJ 859 154 DOI [10.3847/1538-4357/aabfb9](https://doi.org/10.3847/1538-4357/aabfb9)

RHESSI's 15th Anniversary

Brian Dennis, Säm Krucker and Albert Shih

RHESSI Science Nugget No. 292 Feb 2017

http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/RHESSI%27s_15th_Anniversary

28-31 Jan

Formation and Eruption of a Mini-sigmoid Originating in Coronal Hole

Z. W. [Huang](#), [X. Cheng](#), [Y. N. Su](#), [T. Liu](#), [M. D. Ding](#)

2019 ApJ 887 130

<https://doi.org/10.3847/1538-4357/ab4f83>

<https://arxiv.org/pdf/1912.10404.pdf>

29-31 Jan

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>

30 Jan

Comparative Study and Development of Two Contour-Based Image Segmentation Techniques for Coronal Hole Detection in Solar Images

Sanmoy [Bandyopadhyay](#), [Saurabh Das](#) & [Abhirup Datta](#)

Solar Physics volume 295, Article number: 110 (**2020**)

<https://link.springer.com/content/pdf/10.1007/s11207-020-01674-4.pdf>

Segmentation of coronal holes in solar disk images with a convolutional neural network

E. [Illarionov](#), [A. Tlatov](#)

MNRAS **2018**

<https://arxiv.org/pdf/1809.05748.pdf>

Geoeffectiveness of interplanetary shocks controlled by impact angles: A **review**

D.M. [Oliveira](#), [A.A.Samsonov](#)

Advances in Space Research Volume 61, Issue 1, 1 January **2018**, Pages 1-44

https://ac.els-cdn.com/S0273117717307275/1-s2.0-S0273117717307275-main.pdf?_tid=bba606ae-de3f-11e7-b55e-00000aacb35e&acdnat=1512975277_eb1699c52c6f97d7ff8493d1fe7e47bb

2 Feb

A Statistical Study on The Frequency-Dependent Damping of Slow-mode Waves in Polar Plumes and Interplumes

Sudip [Mandal](#), [S.Krishna Prasad](#), [Dipankar Banerjee](#)

ApJ 2017

<https://arxiv.org/pdf/1712.03673.pdf>

9 Feb

НАБЛЮДЕНИЯ ЭРУПТИВНЫХ СОБЫТИЙ С ПОМОЩЬЮ СИБИРСКОГО РАДИОГЕЛИОГРАФА

[ФЕДОТОВА А.Ю.1](#), [АЛТЫНЦЕВ А.Т.1](#), [КОЧАНОВ А.А.1](#), [ЛЕСОВОЙ С.В.1](#), [МЕШАЛКИНА Н.С.1](#)

СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том: 4Номер: 3 Год: 2018 Страницы: 17-27

~10 Feb

Background Microwave Emission and Microflares in Young Active Region 12635

Alexander T. [Altyntsev](#), Nataliia S. Meshalkina, Anastasiya Ya. Fedotova, and Ivan I. Myshyakov

2020 ApJ 905 149

<https://doi.org/10.3847/1538-4357/abc54f>

19 Feb

Sun-as-a-star Analyses of Various Solar Active Events Using H α Spectral Images Taken by SMART/SDDI

[Takato Otsu](#), [Ayumi Asai](#), [Kiyoshi Ichimoto](#), [Takako T. Ishii](#), [Kosuke Namekata](#)

ApJ 2022

<https://arxiv.org/pdf/2210.02819.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>

20 Feb - лимбовая эрупция: an explosion on the sun's eastern limb hurled a twisted plume of debris more than 250,000 km above the solar surface.

See movie

25 Feb

Spatial Distributions of Sunspot Oscillation Modes at Different Temperatures

Zhengkai [Wang](#), [Song Feng](#), [Linhua Deng](#), [Yao Meng](#)

Research in Astronomy and Astrophysics 2019

<https://arxiv.org/pdf/1908.04906.pdf>

Feb 25-Mar 20

Relativistic electron model in the outer radiation belt using a neural network approach

Xiangning [Chu](#), [Donglai Ma](#), [Jacob Bortnik](#), [W. Kent Tobiska](#), [Alfredo Cruz](#), [S. Dave Bouwer](#), [Hong Zhao](#), [Qianli Ma](#), [Kun Zhang](#), [Daniel N. Baker](#), [Xinlin Li](#), [Harlan Spence](#), [Geoff Reeves](#)

Space Weather e2021SW002808 2021

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2021SW002808>

<https://doi.org/10.1029/2021SW002808>

27 Feb

Comparison of the Scaling Properties of EUV Intensity Fluctuations in Coronal Hole and Quiet-Sun Regions

Ana Cristina [Cadavid](#), [Mari Paz Miralles](#), [Kristine Romich](#)

ApJ 2019

<https://arxiv.org/ftp/arxiv/papers/1910/1910.09541.pdf>

28 Feb

An Analysis of Spikes in Atmospheric Imaging Assembly (AIA) Data

Peter R. [Young](#), [Nicholeen M. Viall](#), [Michael S. Kirk](#), [Emily I. Mason](#) & [Lakshmi Pradeep Chitta](#)

[Solar Physics](#) volume 296, Article number: 181 (2021)

<https://link.springer.com/content/pdf/10.1007/s11207-021-01929-8.pdf>

<https://doi.org/10.1007/s11207-021-01929-8>

<https://arxiv.org/pdf/2108.02624.pdf>

28 Feb-15 Mar

Sudden depletion of Alfvénic turbulence in the rarefaction region of corotating solar wind high-speed streams at 1 AU: Possible solar origin?

G. [Carnevale](#)^{1,3}, R. Bruno², R. Marino³, E. Pietropaolo¹ and J. M. Raines⁴

A&A 661, A64 (2022)

<https://doi.org/10.1051/0004-6361/202040006>

<https://www.aanda.org/articles/aa/pdf/2022/05/aa40006-20.pdf>

1 March - G1-class geomagnetic storm under the influence of the trans equatorial parts of CH792. The solar wind is flowing from a large canyon-shaped hole

A DAILY DETERMINATION OF BZ USING THE RUSSELL-MCPHERRON EFFECT TO FORECAST GEOMAGNETIC ACTIVITY

B.V. [Jackson](#), [H.-S. Yu](#), [A. Buffington](#), [P.P. Hick](#), [M. Tokumaru](#), [K. Fujiki](#), [J. Kim](#), [J. Yun](#)

Space Weather 2019

sci-hub.se/10.1029/2018SW002098

1-8 March

Non-thermal Velocity in the Transition Region of Active Regions and its Centre-to-Limb Variation

[Avyarthana Ghosh](#), [Durgesh Tripathi](#), [James A. Klimchuk](#)

ApJ 2021

<https://arxiv.org/pdf/2103.15081.pdf>

On Doppler shift and its Center-to-Limb Variation in Active Regions in the Transition Region

Avyarthana [Ghosh](#), [James A. Klimchuk](#), [Durgesh Tripathi](#)

2019

<https://arxiv.org/pdf/1910.12033.pdf>

6 Mar

Future High-Resolution and High-Cadence Observations for Unraveling Small-Scale Explosive Solar Features

[Alphonse C. Sterling](#), [Ronald L. Moore](#), [Navdeep K. Panesar](#), [Tanmoy Samanta](#), [Sanjiv K.](#)

[Tiwari](#), [Sabrina L. Savage](#)

Frontiers 2023

<https://arxiv.org/pdf/2302.13179.pdf>

Another Look at Erupting Minifilaments at the Base of Solar X-Ray Polar Coronal "Standard" and "Blowout" Jets

[Alphonse C. Sterling](#), [Ronald L. Moore](#), [Navdeep K. Panesar](#)

ApJ 2022

<https://arxiv.org/pdf/2201.12314.pdf>

12 March

Solar Tornadoes Observed with the Interface Region Imaging Spectrograph: Rotating Motion of Prominence Materials

Zihao [Yang](#), [Hui Tian](#), [Hardi Peter](#), [Yang Su](#), [Tanmoy Samanta](#), [Jingwen Zhang](#), [Yajie Chen](#)

ApJ 2017

<https://arxiv.org/pdf/1711.08968.pdf>

14 March

Comparative Study and Development of Two Contour-Based Image Segmentation Techniques for Coronal Hole Detection in Solar Images

Sanmoy [Bandyopadhyay](#), [Saurabh Das](#) & [Abhirup Datta](#)

[Solar Physics](#) volume 295, Article number: 110 (2020)

<https://link.springer.com/content/pdf/10.1007/s11207-020-01674-4.pdf>

16 March

Modeling the quiet Sun cell and network emission with ALMA

[C. E. Alissandrakis](#), [A. Nindos](#), [T. S. Bastian](#), [S. Patsourakos](#)

A&A 2020

<https://arxiv.org/pdf/2006.09886.pdf>

Transient brightenings in the quiet Sun detected by ALMA at 3 mm

A. [Nindos](#), [C. E. Alissandrakis](#), [S. Patsourakos](#), [T. S. Bastian](#)

A&A 2020

<https://arxiv.org/pdf/2004.07591.pdf>

Observations of solar chromospheric oscillations at 3 mm with ALMA

S. [Patsourakos](#), [C. E. Alissandrakis](#), [A. Nindos](#), [T. S. Bastian](#)

A&A 2019

<https://arxiv.org/pdf/1912.03480.pdf>

First high resolution look at the quiet Sun with ALMA at 3 mm

A. [Nindos](#), [C.E. Alissandrakis](#), [T.S. Bastian](#), [S. Patsourakos](#), [B. De Pontieu](#), [H. Warren](#), [T. Ayres](#), [H.S. Hudson](#), [T. Shimizu](#), [J.-C. Vial](#), [S. Wedemeyer](#), [V. Yurchyshyn](#)

A&A 2018

<https://arxiv.org/pdf/1810.05223.pdf>

17 March

A publicly available multi-observatory data set of an enhanced network patch from the Photosphere to Corona

Adam R. [Kobelski](#), 1, 2 Lucas A. Tarr, 3 Sarah A. Jaeggli, 3 Nicholas Lubert, 2 Harry P. Warren, 4 and Sabrina Savage¹

ApJ 2022

<https://arxiv.org/pdf/2205.01766.pdf>

Segmentation of coronal holes in solar disk images with a convolutional neural network

E. [Illarionov](#), [A. Tlatov](#)

MNRAS 2018

<https://arxiv.org/pdf/1809.05748.pdf>

19 Mar

An ALMA Observation of Time Variations in Chromospheric Temperature of a Solar Plage Region

Masashi **Abe**, Toshifumi Shimizu, Masumi Shimojo

Front. Astron. Space Sci. 9:908249. 2022

doi: 10.3389/fspas.2022.908249

<https://www.frontiersin.org/articles/10.3389/fspas.2022.908249/pdf>

Simultaneous ALMA-Hinode-IRIS observations on footpoint signatures of a soft X-ray loop-like microflare

[Toshifumi Shimizu](#), [Masumi Shimojo](#), [Masashi Abe](#)

ApJ 2021

<https://arxiv.org/pdf/2109.11215.pdf>

20 March

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)

<https://arxiv.org/pdf/2008.03146.pdf>

21 March

Extreme ultraviolet bursts and nanoflares in the quiet solar transition region and corona

[L. P. Chitta](#), [H. Peter](#), [P. R. Young](#)

A&A 2021

<https://arxiv.org/pdf/2102.00730.pdf>

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>

22 March

Magnetic Flux Cancellation as the Trigger Mechanism of Solar Coronal Jets

Riley A. **McGlasson**, [Navdeep K. Panesar](#), [Alphonse C. Sterling](#), [Ronald Moore](#)

ApJ 2019

<https://arxiv.org/pdf/1906.06452.pdf>

23 March

Quiet Region Jet by Eruption of Minifilament and Associated Change in Magnetic Flux

Rakesh **Mazumder**

Astronomy Reports 2018

<https://arxiv.org/pdf/1812.10090.pdf>

Mini-filament Eruptions Triggering Confined Solar Flares Observed by ONSET and SDO

[Shuhong Yang](#), [Jun Zhang](#)

ApJL 2018

<https://arxiv.org/pdf/1806.01763.pdf>

25 March

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>

25-29 Mar

Nature of helicity injection in non-erupting solar active regions

[P. Vemareddy](#)

MNRAS 2022

<https://arxiv.org/pdf/2208.03228>

26-27 Mar

Corotating Interaction Regions during Solar Cycle 24: A Study on Characteristics and Geoeffectiveness

Rajkumar [Hajra](#) & [Jibin V. Sunny](#)

[Solar Physics](#) volume 297, Article number: 30 (2022)

<https://link.springer.com/content/pdf/10.1007/s11207-022-01962-1.pdf>

27 March–4 Apr

Solar Flare Intensity Prediction with Machine Learning Models

Zhenbang [Jiao](#), [Hu Su](#), [Xiantong Wang](#), [Ward Manchester](#), [Tamas Gombosi](#), [Alfred Hero](#), [Yang Chen](#)

Space Weather 2019

<https://arxiv.org/pdf/1912.06120.pdf>

29 Mar-7 Apr

Extrapolation Approaches for Studying the Preeruptive Conditions of Solar Active Regions

Marianna B. [Korsós](#)^{1,2,3}, Robert Jarolim⁴, Robertus Erdélyi^{2,3,5}, Astrid M. Veronig^{4,6}, Huw Morgan⁷, and Francesca Zuccarello^{1,8}

2024 ApJ 962 171

<https://iopscience.iop.org/article/10.3847/1538-4357/ad18bd/pdf>

Nature of helicity injection in non-erupting solar active regions

[P. Vemareddy](#)

MNRAS 2022

<https://arxiv.org/pdf/2208.03228>

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>

30 Mar

Solar jets: SDO and IRIS observations in the perspective of new MHD simulations

Review

[Brigitte Schmieder](#)

Frontiers 9:820183. 2022

doi: 10.3389/fspas.2022.820183

<https://arxiv.org/pdf/2201.11541.pdf>

<https://www.frontiersin.org/articles/10.3389/fspas.2022.820183/full>

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>

1 Apr

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>

LUCI onboard Lagrange, the Next Generation of EUV Space Weather Monitoring

M.J. [West](#), [C. Kintziger](#), [M. Haberreiter](#), [M. Gyo](#), [D. Berghmans](#), [S. Gissot](#), [V Büchel](#), [L. Golub](#), [S. Shestov](#), [J.A. Davies](#)

Journal of Space Weather and Space Climate 2020

<https://arxiv.org/pdf/2009.04788.pdf>

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>

Exceptional Extended Field-of-view Observations by PROBA2/SWAP on 2017 April 1 and 3

Jennifer P. [O'Hara](#)¹, Marilena Mierla^{1,2}, Olena Podladchikova¹, Elke D'Huys¹, and Matthew J. West¹

2020 ApJ 883 59

<https://doi.org/10.3847/1538-4357/ab3b08>

<https://iopscience.iop.org/article/10.3847/1538-4357/ab3b08/pdf>

1-2 Apr Suddenly, solar flare activity is high. With little warning, sunspot AR2644 exploded on April 1st, producing an **M4.4-class flare**. That was the strongest solar flare of the year--for less than a day. The sunspot topped itself on April 2nd with a pair of **M5-class** explosions.

The magnetic origin of the mystery of rare H α 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>

2 Apr

Extrapolation Approaches for Studying the Preeruptive Conditions of Solar Active Regions

Marianna B. [Korsós](#)^{1,2,3}, Robert Jarolim⁴, Robertus Erdélyi^{2,3,5}, Astrid M. Veronig^{4,6}, Huw Morgan⁷, and Francesca Zuccarelli^{1,8}

2024 ApJ 962 171

<https://iopscience.iop.org/article/10.3847/1538-4357/ad18bd/pdf>

Sun-as-a-star Analyses of Various Solar Active Events Using H α Spectral Images Taken by SMART/SDDI

[Takato Otsu](#), [Ayumi Asai](#), [Kiyoshi Ichimoto](#), [Takako T. Ishii](#), [Kosuke Namekata](#)

ApJ 2022

<https://arxiv.org/pdf/2210.02819.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>

Automated Solar Flare Detection and Feature Extraction in High-Resolution and Full-Disk H α 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>

Observation of Solar Radio Waves by CALLISTO Radio Spectrometer in Ibaraki University

Natsuki [Tsuda](#), Satoshi

2017 ISWI Newsletter - Vol. 9 No. 010

ISWI Newsletter - Vol. 10 No. 006, 2018

<http://files.mail-list.com/m/iswinewsletter/Observation-of-Solar-Radio-Waves-by-CALLISTO-Radio-Spectrometer-final-final.pdf>

<http://files.mail-list.com/m/iswinewsletter/ibaraki-CALLISTO.pdf>

3 Apr

Analyzing the propagation of EUV waves and their connection with type II radio bursts by combining numerical simulations and multi-instrument observations*

A. [Koukras](#)^{1,2}, C. Marqué², C. Downs³ and L. Dolla

A&A 644, A90 (2020)

<https://doi.org/10.1051/0004-6361/202038699>

Exceptional Extended Field-of-view Observations by PROBA2/SWAP on 2017 April 1 and 3

Jennifer P. [O'Hara](#)¹, Marilena Mierla^{1,2}, Olena Podladchikova¹, Elke D'Huys¹, and Matthew J. West¹

2020 ApJ 883 59

<https://iopscience.iop.org/article/10.3847/1538-4357/ab3b08/pdf>

<https://doi.org/10.3847/1538-4357/ab3b08>

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>

4 Apr

Study of Solar Jets and Related Flares

Thesis

[Reetika Joshi](#)

Thesis 2022

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

Solar jets: SDO and IRIS observations in the perspective of new MHD simulations

Review

[Brigitte Schmieder](#)

Frontiers 9:820183. 2022

doi: 10.3389/fspas.2022.820183

<https://arxiv.org/pdf/2201.11541.pdf>

<https://www.frontiersin.org/articles/10.3389/fspas.2022.820183/full>

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 case-study of multi-temperature coronal jets for emerging flux MHD models

[Reetika Joshi](#), [Ramesh Chandra](#), [Brigitte Schmieder](#), [Fernando Moreno-Insertis](#), [Guillaume Aulanier](#), [Daniel Nóbrega-Siverio](#), [Pooja Devi](#)

A&A 2020

<https://arxiv.org/pdf/2005.06064.pdf>

Multiple Solar Jets from NOAA AR 12644

Reetika [Joshi](#), [Ramesh Chandra](#)

XXIXth IAU General Assembly Aug 2015? 2018

<https://arxiv.org/pdf/1806.07063.pdf>

5 Apr

Eruptions from coronal bright points: A spectroscopic view by IRIS of a mini-filament eruption, QSL reconnection, and reconnection-driven outflows

[Maria S. Madjarska](#), [Duncan H. Mackay](#), [Klaus Galsgaard](#), [Thomas Wiegmann](#), [Haixia Xie](#)

A&A 2022

<https://arxiv.org/pdf/2202.00370.pdf>

Spectro-polarimetric Observations at the NVST: I. Instrumental Polarization Calibration and Primary Measurements

Jun-Feng [Hou](#), [Zhi Xu](#), [Shu Yuan](#), [Yu-Chao Chen](#), [Jian-Guo Peng](#), [Dong-Guang Wang](#), [Jun Xu](#), [Yuan-Yong Deng](#), [Zhen-Yu Jin](#), [Kai-Fan Ji](#), [Zhong Liu](#)

Research in Astronomy and Astrophysics 2019

<https://arxiv.org/pdf/1911.07397.pdf>

The First Low-frequency Radio Observations of the Solar Corona on ≈ 200 km Long Interferometer Baseline

V. [Mugundhan](#)¹, R. Ramesh¹, C. Kathiravan¹, G. V. S. Gireesh², Anshu Kumari¹, K. Hariharan³, and Indrajit V. Barve²

2018 ApJL 855 L8

<http://sci-hub.tw/http://iopscience.iop.org/2041-8205/855/1/L8/>

6-7 Apr

Density Fluctuations in a Polar Coronal Hole

Michael [Hahn](#), [Elke D'Huys](#), [Daniel Wolf Savin](#)

ApJ 2018

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10 Apr

Magnetic Flux Cancellation as the Trigger Mechanism of Solar Coronal Jets

Riley A. [McGlasson](#), [Navdeep K. Panesar](#), [Alphonse C. Sterling](#), [Ronald Moore](#)

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<https://arxiv.org/pdf/1906.06452.pdf>

12 Apr

Three Years of HARPS-N High-Resolution Spectroscopy and Precise Radial Velocity Data for the Sun

[X. Dumusque](#), [M. Cretignier](#), [D. Sosnowska](#), [N. Buchschacher](#), [C. Lovis](#), [D. F. Phillips](#), [F. Pepe](#), [F. Alesina](#), [L. A. Buchhave](#), [J. Burnier](#), [M. Cecconi](#), [H. M. Cegla](#), [R. Cloutier](#), [A. Collier Cameron](#), [R. Cosentino](#), [A. Ghedina](#), [M. Gonzalez](#), [R. D. Haywood](#), [D. W. Latham](#), [M. Lodi](#), [M. Lopez-Morales](#), [J. Maldonado](#), [L. Malavolta](#), [G. Micela](#), [E. Molinari](#), [A. Mortier](#), [H. Perez Ventura](#), [M. Pinamonti](#), [E. Poretti](#), [K. Rice](#), [L. Riverol](#), [C. Riverol](#), [J. San Juan](#), [D. Segransan](#), [A. Sozzetti](#), [S. J. Thompson](#), [S. Udry](#), [T. G Wilson](#)

A&A 2020

<https://arxiv.org/pdf/2009.01945.pdf>

15 April-15 May

Characterizing extreme geomagnetic storms using Extreme Value Analysis: a discussion on the representativeness of short datasets

G. [Bernoux](#), [V. Maget](#)

Space Weather **Volume 18, Issue 6** e2020SW002450 2020

<https://sci-hub.tw/10.1029/2020SW002450>

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002450>

16 Apr

Comparison of the Scaling Properties of EUV Intensity Fluctuations in Coronal Hole and Quiet-Sun Regions

Ana Cristina [Cadavid](#), [Mari Paz Miralles](#), [Kristine Romich](#)

ApJ 2019

<https://arxiv.org/ftp/arxiv/papers/1910/1910.09541.pdf>

17 Apr

Differences in physical properties of coronal bright points and their ALMA counterparts within and outside coronal holes

F. [Matković](#), [R. Brajša](#), [M. Temmer](#), [S. G. Heinemann](#), [H.-G. Ludwig](#), [S. H. Saar](#), [C. L. Selhorst](#), [I. Skokić](#), [D. Sudar](#)

A&A 2022

<https://arxiv.org/pdf/2212.09443.pdf>

Investigation into CME Shock Speed Resulting from Type II Solar Radio Bursts *A Newly Designed Half-Wave Dipole Antenna (HWDA) Array System*

F. A. M. [Pauzi](#), [Z. Z. Abidin](#), [S. J. Guo](#), [G. N. Gao](#), [L. Dong](#) & [C. Monstein](#)

Solar Physics volume 295, Article number: 42 (2020)

<https://link.springer.com/content/pdf/10.1007/s11207-019-1404-z.pdf>

18 Apr

Solar Type U Burst Associated with a High Coronal Loop

[V. V. Dorovskyy](#), [V. N. Melnik](#), [A. A. Konovalenko](#), [S. N. Yerin](#), [I. N. Bubnov](#)

2020

<https://arxiv.org/ftp/arxiv/papers/2012/2012.08991.pdf>

An overall view of temperature oscillations in the solar chromosphere with ALMA

[Shahin Jafarzadeh](#), [Sven Wedemeyer](#), [Bernhard Fleck](#), [Marco Stangalini](#), [David B. Jess](#), [Richard J. Morton](#), [Mikolaj Szydlarski](#), [Vasco M. J. Henriques](#), [Xiaoshuai Zhu](#), [Thomas Wiegelmann](#), [Juan C. Guevara Gómez](#), [Samuel D. T. Grant](#), [Bin Chen](#), [Kevin Reardon](#), [Stephen M. White](#)

Philosophical Transactions of the Royal Society A 2020

<https://arxiv.org/pdf/2010.01918.pdf>

19 Apr

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.

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Characterizing extreme geomagnetic storms using Extreme Value Analysis: a discussion on the representativeness of short datasets

G. [Bernoux](#), [V. Maget](#)

Space Weather 2020 e2020SW002450

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002450>

20 Apr

Chromospheric observations and magnetic configuration of a supergranular structure

Carolina [Robustini](#), [Sara Esteban Pozuelo](#), [Jorrit Leenaarts](#), [Jaime de la Cruz Rodriguez](#)

A&A 2018

<https://arxiv.org/pdf/1810.10762.pdf>

20-25 Apr

The effect of continuous geomagnetic storms on enhancements of ultrarelativistic electrons in the Earth's outer radiation belt

Jingrun [Chen](#), Jingrun Chen, Chaoling Tang, and Xinxin Chu

Front. Astron. Space Sci. 11: 1381764. 2024

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<https://www.frontiersin.org/articles/10.3389/fspas.2024.1381764/full>

21 Apr

Comparison of the Scaling Properties of EUV Intensity Fluctuations in Coronal Hole and Quiet-Sun Regions

Ana Cristina [Cadavid](#), [Mari Paz Miralles](#), [Kristine Romich](#)

ApJ 2019

<https://arxiv.org/ftp/arxiv/papers/1910/1910.09541.pdf>

22 Apr

The Sun at millimeter wavelengths V. Magnetohydrodynamic waves in a fibrillar structure

[Maryam Saberi](#), [Shahin Jafarzadeh](#), [Sven Wedemeyer](#), [Ricardo Gafeira](#), [Mikolaj Szydlarski](#), [David Jess](#), [Marco Stangalini](#)

A&A 2024

<https://arxiv.org/pdf/2411.14190>

Differences in physical properties of coronal bright points and their ALMA counterparts within and outside coronal holes

F. [Matković](#), [R. Brajša](#), [M. Temmer](#), [S. G. Heinemann](#), [H.-G. Ludwig](#), [S. H. Saar](#), [C. L. Selhorst](#), [I. Skokić](#), [D. Sudar](#)

A&A 2022

<https://arxiv.org/pdf/2212.09443.pdf>

Propagation of transverse waves in the solar chromosphere probed at different heights with ALMA sub-bands

[Juan Camilo Guevara Gómez](#), [Shahin Jafarzadeh](#), [Sven Wedemeyer](#), [Mikolaj Szydlarski](#)

A&A Let 2022

<https://arxiv.org/pdf/2208.12070.pdf>

The Solar ALMA Science Archive (SALSA)

[Vasco M. J. Henriques](#), [Shahin Jafarzadeh](#), [Juan Camilo Guevara Gómez](#), [Henrik Eklund](#), [Sven Wedemeyer](#), [Mikołaj Szydlarski](#), [Stein Vidar H. Haugan](#), [Atul Mohan](#)

A&A 2021

<https://arxiv.org/pdf/2109.02374.pdf>

High-frequency oscillations in small chromospheric bright features observed with ALMA

[Juan Camilo Guevara Gómez](#), [Shahin Jafarzadeh](#), [Sven Wedemeyer](#), [Mikolaj Szydlarski](#), [Marco Stangalini](#), [Bernhard Fleck](#), [Peter Keys](#)

Philosophical Transactions of the Royal Society A 2020

<https://arxiv.org/pdf/2008.04179.pdf>

ALMA and IRIS Observations of the Solar Chromosphere II: Structure and Dynamics of Chromospheric Plage

[Georgios Chintzoglou](#), [Bart De Pontieu](#), [Juan Martínez-Sykora](#), [Viggo Hansteen](#), [Jaime de la Cruz Rodríguez](#), [Mikolaj Szydlarski](#), [Shahin Jafarzadeh](#), [Sven Wedemeyer](#), [Timothy S. Bastian](#), [Alberto Sainz Dalda](#)

ApJ 2020

<https://arxiv.org/pdf/2012.05970.pdf>

IRIS and ALMA Observations Uncovering a Type-II Spicule and the Dynamic Nature of a Chromospheric Plage Region

[Georgios Chintzoglou](#), [Bart De Pontieu](#), [Juan Martínez-Sykora](#), [Viggo Hansteen](#), [Jaime de la Cruz Rodríguez](#), [Mikolaj Szydlarski](#), [Shahin Jafarzadeh](#), [Sven Wedemeyer](#), [Timothy S. Bastian](#), [Alberto Sainz Dalda](#)

ApJ 2020

<https://arxiv.org/pdf/2005.12717.pdf>

The multi-thermal chromosphere: inversions of ALMA and IRIS data

J. M. da Silva [Santos](#), [J. de la Cruz Rodríguez](#), [J. Leenaarts](#), [G. Chintzoglou](#), [B. De Pontieu](#), [S. Wedemeyer](#), [M. Szydlarski](#)

A&A 2020

<https://arxiv.org/pdf/1912.09886.pdf>

22-23 Apr

An overall view of temperature oscillations in the solar chromosphere with ALMA

[Shahin Jafarzadeh](#), [Sven Wedemeyer](#), [Bernhard Fleck](#), [Marco Stangalini](#), [David B. Jess](#), [Richard J. Morton](#), [Mikolaj Szydlarski](#), [Vasco M. J. Henriques](#), [Xiaoshuai Zhu](#), [Thomas Wiegelmann](#), [Juan C. Guevara Gómez](#), [Samuel D. T. Grant](#), [Bin Chen](#), [Kevin Reardon](#), [Stephen M. White](#)

Philosophical Transactions of the Royal Society A 2020

<https://arxiv.org/pdf/2010.01918.pdf>

23 Apr ~06 UT: эрупция волокна из NE области; 304 A; слабый CME

A fast-filament eruption observed in the H α spectral line. I. Imaging spectroscopy diagnostic

[Denis P. Cabezas](#), [Kiyoshi Ichimoto](#), [Ayumi Asai](#), [Satoru UeNo](#), [Satoshi Morita](#), [Ken-ichi Otsuji](#), [Kazunari Shibata](#)

A&A 2024

<https://arxiv.org/pdf/2406.20020>

Flares detected in ALMA single-dish images of the Sun

[I. Skokić](#), [A. O. Benz](#), [R. Brajša](#), [D. Sudar](#), [F. Matković](#), [M. Bárta](#)

A&A 2022

<https://arxiv.org/pdf/2211.16935.pdf>

Sun-as-a-star Analyses of Various Solar Active Events Using H α Spectral Images Taken by SMART/SDDI

[Takato Otsu](#), [Ayumi Asai](#), [Kiyoshi Ichimoto](#), [Takako T. Ishii](#), [Kosuke Namekata](#)

ApJ 2022

<https://arxiv.org/pdf/2210.02819.pdf>

Solar Chromospheric Temperature Diagnostics: a joint ALMA-H α analysis

Momchil E. [Molnar](#), [Kevin P. Reardon](#), [Yi Chai](#), [Dale Gary](#), [Han Uitenbroek](#), [Gianna Cauzzi](#), [Steven R. Cranmer](#)

ApJ 2019

<https://arxiv.org/pdf/1906.08896.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>

24 Apr ~01:30: эрупция широкого NE волокна; 304 А; слабый CME на STEREO-A
See NOBE <http://solar.nro.nao.ac.jp/norh/html/10min/2017/04/24/movie.html>
SDO <https://sdo.gsfc.nasa.gov/assets/img/dailymov/2017/04/24/>

МНОГОВОЛНОВЫЙ СИБИРСКИЙ РАДИОГЕЛИОГРАФ

[Алтынцев А.Т.](#), [С.В. Лесовой](#), [М.В. Глоба](#), [А.В. Губин](#), [А.А. Кочанов](#), [В.В. Гречнев](#) и др.
Солнечно-земная физика. 2020. Т. 6. № 2, с. 37-50
DOI: 10.12737/szf-62202003

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>

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>

НАБЛЮДЕНИЯ ЭРУПТИВНЫХ СОБЫТИЙ С ПОМОЩЬЮ СИБИРСКОГО РАДИОГЕЛИОГРАФА

[ФЕДОТОВА А.Ю.](#)¹, [АЛТЫНЦЕВ А.Т.](#)¹, [КОЧАНОВ А.А.](#)¹, [ЛЕСОВОЙ С.В.](#)¹, [МЕШАЛКИНА Н.С.](#)¹

СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том: 4Номер: 3 Год: 2018 Страницы: 17-27

26 Apr

Flares detected in ALMA single-dish images of the Sun

[I. Skokić](#), [A. O. Benz](#), [R. Brajša](#), [D. Sudar](#), [F. Matković](#), [M. Bárta](#)
A&A 2022
<https://arxiv.org/pdf/2211.16935.pdf>

Estimating the temperature and density of a spicule from 100 GHz data obtained with ALMA

Masumi [Shimojo](#), [Tomoko Kawate](#), [Takenori J. Okamoto](#), [Takaaki Yokoyama](#), [Noriyuki Narukage](#), [Taro Sakao](#), [Kazumasa Iwai](#), [Gregory D. Fleishman](#), [Kazunari Shibata](#)
ApJL 2019
<https://arxiv.org/pdf/1912.05714.pdf>

27 Apr

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 detection of dark chromospheric holes in the quiet Sun

Maria A. [Loukitcheva](#), [Stephen M. White](#), [Sami K. Solanki](#)
ApJL 2019
<https://arxiv.org/pdf/1905.06763.pdf>

29 Apr

ALMA Observations of the Solar Chromosphere on the Polar Limb
Takaaki [Yokoyama](#), [Masumi Shimojo](#), [Takenori J. Okamoto](#), [Haruhisa Iijima](#)
ApJ **2018**
<https://arxiv.org/pdf/1807.01411.pdf>

30 Apr ~00:30: эрупция SW волокна;

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>

1 May

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>

5 May

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>

Exploring the Asymmetry of the Solar Corona Electron Density with Very Long Baseline Interferometry
Dan [Aksim](#), [Alexey Melnikov](#), [Dmitry Pavlov](#), [Sergey Kurdubov](#)
ApJ **2019**
<https://arxiv.org/pdf/1910.10529.pdf>

12 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>

20-27 May

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

23 May – центральная эрупция и CME

On The Influence Of The Solar Wind On The Propagation Of Earth-impacting Coronal Mass Ejections

Sandeep Kumar, [Nandita Srivastava](#), [Nat Gopalswamy](#), [Ashutosh Dash](#)

ApJ 2024

<https://arxiv.org/pdf/2411.01165>

Effective Acceleration Model for the Arrival Time of Interplanetary Shocks driven by Coronal Mass Ejections

Evangelos [Paouris](#), Helen Mavromichalaki

[Solar Physics](#) December 2017, 292:180

<https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1212-2.pdf>

25 May

Spicules and downflows in the solar chromosphere

[Souvik Bose](#), [Jayant Joshi](#), [Vasco M.J. Henriques](#), [Luc Rouppe van der Voort](#)

A&A 2021

<https://arxiv.org/pdf/2101.07829.pdf>

Characterization and formation of on-disk spicules in the Ca II K and Mg II k spectral lines

[Souvik Bose](#), [Vasco M.J. Henriques](#), [Jayant Joshi](#), [Luc Rouppe van der Voort](#)

A&A Letter 2019

<https://arxiv.org/pdf/1910.05533.pdf>

27 May

Transition Region Brightening in a Moss Region and Their Relation with Lower Atmospheric Dynamics

Bhinya [Ram](#)^{1,2}, Tanmoy Samanta¹, Yajie Chen², Alphonse C. Sterling³, Jayant Joshi¹, Vasyl Yurchyshyn⁴, Lakshmi Pradeep Chitta², and Vaibhav Pant⁵

2024 ApJ 977 25

<https://iopscience.iop.org/article/10.3847/1538-4357/ad84e1/pdf>

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>

28 May – буря, Dst~-122

29 May

2D non-LTE modelling of a filament observed in the H_α line with the DST/IBIS spectropolarimeter

P. [Schwartz](#) (1), [S. Gunar](#) (2), [J. M. Jenkins](#) (3), [D. M. Long](#) (3), [P. Heinzel](#) (2), [D. P. Choudhary](#)

A&A 2019

<https://arxiv.org/pdf/1910.03607.pdf>

29-30 May

Velocities of an Erupting Filament

[Shuo Wang](#), [Jack M. Jenkins](#), [Karin Muglach](#), [Valentin Martinez Pillet](#), [Christian Beck](#), [David M. Long](#), [Debi Prasad Choudhary](#), [James McAteer](#)

ApJ 2021

<https://arxiv.org/pdf/2111.07830.pdf>

Magnetic Structure of an Erupting Filament

Shuo [Wang](#), [Jack M. Jenkins](#), [Valentin Martinez Pillet](#), [Christian Beck](#), [David M. Long](#), [Debi Prasad Choudhary](#), [Karin Muglach](#), [James McAteer](#)

ApJ 892, 75 2020

<https://arxiv.org/pdf/2002.02104.pdf>

1 June

An extreme ultraviolet wave generating upward secondary waves in a streamer-like solar structure

Ruisheng [Zheng](#), [Yao Chen](#), [Shiwei Feng](#), [Bing Wang](#), [Hongqiang Song](#)

ApJL 2018

<https://arxiv.org/pdf/1804.06997.pdf>

2 June

Spatial and Temporal Analysis of Quiescent Coronal Rain over an Active Region

[Seray Şahin](#), [Patrick Antolin](#), [Clara Froment](#), [Thomas A. Schad](#)

ApJ 2023

<https://arxiv.org/pdf/2305.08775.pdf>

Prevalence of Thermal Nonequilibrium over an Active Region

Seray [Şahin](#)¹ and Patrick Antolin¹

2022 ApJL 931 L27

<https://iopscience.iop.org/article/10.3847/2041-8213/ac6fe9/pdf>

<https://arxiv.org/pdf/2205.10794.pdf>

4 June

High-resolution Observations of Dynamics of Superpenumbral H α Fibrils

Ju [Jing](#)^{1,2}, Qin Li^{1,2}, Chang Liu^{1,2}, Jeongwoo Lee¹, Yan Xu^{1,2}, Wenda Cao^{1,2}, and Haimin Wang^{1,2}

2019 ApJ 880 143

[sci-hub.se/10.3847/1538-4357/ab2b44](https://arxiv.org/pdf/1905.04357v1.pdf)

4-5 June

Image Quality in High-resolution and High-cadence Solar Imaging

C. [Denker](#), [E. Dineva](#), [H. Balthasar](#), [M. Verma](#), [C. Kuckein](#), [A. Diercke](#), [S.J. González Manrique](#)

Solar Phys. 2018

<https://arxiv.org/pdf/1802.00760.pdf>

13 Jun

Geomagnetic storm forecasting from solar coronal holes

Simona [Nitti](#), [Tatiana Podladchikova](#), [Stefan J. Hofmeister](#), [Astrid M. Veronig](#), [Giuliana Verbanac](#), [Mario Bandić](#)

MNRAS 2022

<https://arxiv.org/pdf/2211.16572.pdf>

14 June

The chromospheric component of coronal bright points: Coronal and chromospheric responses to magnetic-flux emergence

Maria S. [Madjarska](#), [Jongchul Chae](#), [Fernando Moreno-Insertis](#), [Zhenyong Hou](#), [Daniel Nobrega-Siverio](#), [Hannah Kwak](#), [Klaus Galsgaard](#), [Kyuhyoun Cho](#)

A&A 2020

<https://arxiv.org/pdf/2012.09426.pdf>

Impulsive wave excitation by rapidly changing granules

[Hannah Kwak](#), [Jongchul Chae](#), [Maria S. Madjarska](#), [Kyuhyoun Cho](#), [Donguk Song](#)

A&A 2020
<https://arxiv.org/pdf/2008.12779.pdf>

15 June

Source Depth of Three-minute Umbral Oscillations

Kyuhyouon [Cho](#), [Jongchul Chae](#)
ApJL 2020
<https://arxiv.org/pdf/2003.10542.pdf>

17 June

Two fluid dynamics in solar prominences

S. J. González [Manrique](#) (1 and 2 and 3 and 4), [E. Khomenko](#) (2 and 3), [M. Collados](#) (2 and 3), [C. Kuckein](#) (2 and 3), [T. Felipe](#) (2 and 3), [P. Gömöry](#) (4)
A&A 2023
<https://arxiv.org/pdf/2311.03183.pdf>

Spiral-shaped wavefronts in a sunspot umbra

T. [Felipe](#), [C. Kuckein](#), [E. Khomenko](#), [I. Thaler](#)
A&A 2018
<https://arxiv.org/pdf/1810.11257.pdf>

Inversions of synthetic umbral flashes: effects of the scanning time on the inferred atmospheres

T. [Felipe](#), [H. Socas-Navarro](#), [D. Przybylski](#)
A&A 2018
<https://arxiv.org/pdf/1802.05028.pdf>

17-18 June

Magnetic field fluctuations in the shocked umbral chromosphere

[T. Felipe](#), [S. J. González Manrique](#), [C. R. Sangeetha](#), [A. Asensio Ramos](#)
A&A 2023
<https://arxiv.org/pdf/2307.01313.pdf>

Chromospheric resonances above sunspots and potential seismological applications

[T. Felipe](#), [C. Kuckein](#), [S. J. González Manrique](#), [I. Milic](#), [C. R. Sangeetha](#)
ApJL 2020
<https://arxiv.org/pdf/2008.10623.pdf>

Signatures of sunspot oscillations and the case for chromospheric resonances

[T. Felipe](#)
2020
<https://arxiv.org/pdf/2007.10471.pdf>

19 June

Using Potential Field Extrapolations to Explore the Origin of Type II Spicules

Vasyl [Yurchyshyn](#)¹, Anneliese Schmidt², Jiasheng Wang², Xu Yang¹, Eun-Kyung Lim³, and Wenda Cao¹
2024 ApJ 961 79
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Frequency–Distance Structure of Solar Radio Sources Observed by LOFAR

Mykola [Gordovskyy](#)¹, Eduard Kontar², Philippa Browning¹, and Alexey Kuznetsov

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A Double-decker Filament Formation Driven by Sunspot Rotation and Magnetic Reconnection

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[Jyoti Sheoran](#), [Vaibhav Pant](#), [Ritesh Patel](#), [Dipankar Banerjee](#)

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A Comparative Study of 2017 July and 2012 July Complex Eruptions: Are Solar Superstorms "Perfect Storms" in Nature?

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[ФЕДОТОВА А.Ю.1](#), [АЛТЫНЦЕВ А.Т.1](#), [КОЧАНОВ А.А.1](#), [ЛЕСОВОЙ](#)

[С.В.1, МЕШАЛКИНА Н.С.1](#)

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G. Carnevale^{1,3}, R. Bruno², R. Marino³, E. Pietropaolo¹ and J. M. Raines⁴

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Frequency–Distance Structure of Solar Radio Sources Observed by LOFAR

Mykola [Gordovskyy](#)¹, Eduard Kontar², Philippa Browning¹, and Alexey Kuznetsov

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Birth places of extreme ultraviolet waves driven by impingement of solar jets upon coronal loops

Liang [Zhang](#), [Ruisheng Zheng](#), [Huadong Chen](#), [Yao Chen](#)

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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](#)

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The GOES-R Solar UltraViolet Imager

[Jonathan M. Darnel](#), [Daniel B. Seaton](#), [Christian Bethge](#), [Laurel Rachmeler](#), [Alison Jarvis](#), [Steven M. Hill](#), [Courtney L. Peck](#), [J. Marcus Hughes](#), [Jason Shapiro](#) ... See all authors

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Episodic energy release during the main- and post-impulsive phase of a solar flare

[Yuqian Wei](#), [Bin Chen](#), [Sijie Yu](#), [Haimin Wang](#), [Yixian Zhang](#), [Lindsay Glesener](#)

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Employing the Coupled EUHFORIA-OpenGGCM Model to Predict CME Geoeffectiveness
Anwasha [Maharana](#), [W. Douglas Cramer](#), [Evangelia Samara](#), [Camilla Scolini](#), [Joachim Raeder](#), [Stefaan Poedts](#)

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A New Approach of Data-driven Simulation and its Application to Solar Active Region 12673

[Liu, ZP](#) ; [Jiang, CW](#) ; [Bian, XK](#) ; [Liu, QJ](#) ; [Zou, P](#) ; [Feng, XS](#)

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3D Magnetic Free Energy and Flaring Activity Using 83 Major Solar Flares

[Khojiakbar Karimov](#)¹, [Harim Lee](#)², [Hyun-Jin Jeong](#)², [Yong-Jae Moon](#)^{1,2}, [Jihye Kang](#)², [Jihyeon Son](#)¹, [Mingyu Jeon](#)¹, and [Kanya Kusano](#)³

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Employing the coupled EUHFORIA-OpenGGCM model to predict CME geoeffectiveness

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Operational solar flare forecasting via video-based deep learning

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Very fast helicity injection leading to critically stable state and large eruptive activity in solar active region NOAA 12673

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High-Frequency Communications Response to Solar Activity in September 2017 as Observed by Amateur Radio Networks

Nathaniel A. **Frissell**¹ , Joshua S. Vega¹ , Evan Markowitz¹ , Andrew J. Gerrard¹ , William D. Engelke² , Philip J. Erickson³ , Ethan S. Miller⁴ , R. Carl Luetzelshwab⁵ , and Jacob Bortnik⁶

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On the Origin of the Photospheric Magnetic Field

Peter W. [Schuck](#)¹, Mark G. Linton², Kalman J. Knizhnik², and James E. Leake¹

2022 ApJ 936 94

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Sun-as-a-star Analysis of H α Spectra of a Solar Flare Observed by SMART/SDDI: Time Evolution of Red Asymmetry and Line Broadening

[Kosuke Namekata](#), [Kiyoshi Ichimoto](#), [Takako T. Ishii](#), [Kazunari Shibata](#)

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Common origin of quasi-periodic pulsations in microwave and decimetric solar radio bursts

[Larisa Kashapova](#), [Dmitrii Kolotkov](#), [Elena Kupriyanova](#), [Anastasiia Kudriavtseva](#), [Chengming Tan](#), [Hamish Reid](#)

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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

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5-6 Sep

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

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6 Sept - AR 12673 has produced две X flares today, first an impulsive X2.2 event at 09:10, then the strongest flare of cycle 24, an X9.3 proton event peaking at 12:02 UT. Long-duration Gamma-rays. Гало СМЕ после ~12:40, видимо, только от 2-ой вспышки. Двойные протоны: сначала жёсткие, потом мягкие, J10 до 350.

Humain Radioastronomy Station

http://sidc.be/humain/event_x9_20170906.php

Context. In **September 2017** the largest X-class flare of Solar Cycle 24 occurred from the most active region (AR) of this cycle, AR 12673. The AR attracted much interest because of its unique morphological and evolution characteristics. Among the parameters examined in the AR was magnetic helicity, but either only approximately, and/or intermittently. Aims. This work is interested in studying the evolution of the relative magnetic helicity and of the two components of its decomposition, the non-potential, and the volume-threading one, in the time interval around the highest activity of AR 12673. Special emphasis is given on the study of the ratio of the non-potential to total helicity, that was recently proposed as an indicator of ARs eruptivity. Methods. For these, we first approximate the coronal magnetic field of the AR with two different optimization-based extrapolation procedures, and choose the one that produces the most reliable helicity value at each instant. Moreover, in one of these methods, we weight the optimization by the uncertainty estimates derived from the Helioseismic and Magnetic Imager (HMI) instrument, for the first time. We then follow an accurate method to compute all quantities of interest. Results. The first observational determination of the evolution of the non-potential to total helicity ratio seems to confirm the quality it has in indicating eruptivity. This ratio increases before the major flares of AR 12673, and afterwards it relaxes to smaller values. Additionally, the evolution patterns of the various helicity, and energy budgets of AR 12673 are discussed and compared with other works. **6 Sept 2017**

Sigmoid eruption associated with X9.3 flare from AR 12673 drives gradual SEP event on 2017 September 6

Stephanie L. [Yardley](#), [David H. Brooks](#)

ApJ **976** 152 **2024**

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A New Approach of Data-driven Simulation and Its Application to Solar Active Region 12673

[Zhi-Peng Liu](#), [Chao-Wei Jiang](#), [Xin-Kai Bian](#), [Qing-Jun Liu](#), [Peng Zou](#), [Xue-Shang Feng](#)

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Strong Photospheric Heating Indicated by Fe I 6173 Å Line Emission During White-Light Solar Flares

[Samuel Granovsky](#), [Alexander G. Kosovichev](#), [Viacheslav M. Sadykov](#), [Graham S. Kerr](#), [Joel C. Allred](#)

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Solar Wind With Field Lines and Energetic Particles (SOFIE) Model: Application to Historical Solar Energetic Particle Events

Lulu [Zhao](#), [Igor Sokolov](#), [Tamas Gombosi](#), [David Lario](#), [Kathryn Whitman](#), [Zhenguang Huang](#), [Gabor Toth](#), [Ward Manchester](#), [Bart van der Holst ...](#) [See all authors](#)

Space Weather **Volume22, Issue9** September **2024** e2023SW003729

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Recent advances in solar data-driven MHD simulations of the formation and evolution of CME flux ropes Review

[Brigitte Schmieder](#), [Jinhan Guo](#), [Stefaan Poedts](#)

Reviews of Modern Plasma Physics **2024**

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Statistics of Solar White-Light Flares I: Optimization of Identification Methods and Application

[Yingjie Cai](#), [Yijun Hou](#), [Ting Li](#), [Jifeng Liu](#)

ApJ **2024**

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Stability of the coronal magnetic field around large confined and eruptive solar flares

[Manu Gupta](#), [J. K. Thalmann](#), [A. M. Veronig](#)

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Spectral variations within solar flare ribbons

[A.G.M. Pietrow](#), [M.K. Druett](#), [V. Singh](#)

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The Link Between Non-Thermal Velocity and Free Magnetic Energy in Solar Flares

[James McKeivitt](#), [Robert Jarolim](#), [Sarah Matthews](#), [Deborah Baker](#), [Manuela Temmer](#), [Astrid Veronig](#), [Hamish Reid](#), [Lucie Green](#)

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A Comparative Study of Two Contrasting Cosmic-Ray Events Caused by Solar Eruptions from NOAA AR 12673 in 2017 September

Xiao Xia [Yu](#)¹, Shuang Nan Zhang¹, Hong Lu¹, Hong Bo Hu¹, Ping Zhang^{2,3}, and Wei Kang Gao¹

2024 ApJ 960 85
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Солнечные вспышки с продолжительным гамма-излучением и характеристики потоков протонов высоких энергий.

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On the use of relative field line helicity as an indicator for solar eruptivity

[K. Moraitis](#), [S. Patsourakos](#), [A. Nindos](#), [J.K. Thalmann](#), [É. Pariat](#)

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Non-Neutralized Electric Currents as a Proxy for Eruptive Activity in Solar Active Regions

Y. [LIU](#) , 1 T. TOR“ OK” , 2 V. S. TITOV , 2 J. E. LEAKE , 3 X. SUN (孙旭东) , 4 AND M. JIN

ApJ 2023
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Prabir K. [Mitra](#),^{1, 2} Bhuwan Joshi,¹ Astrid M. Veronig,³ Ramesh Chandra,⁴ K. Dissauer,^{3, 5} and Thomas Wiegelmann⁶

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Qiangwei Cai^{1,2}, Jing Ye^{3,4}, Hengqiang Feng^{1,2}, and Guoqing Zhao^{1,2}

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24-27 Sep

Magnetic Flux Emergence in a Coronal Hole

Judith **Palacios**, [Dominik Utz](#), [Stefan Hofmeister](#), et al.

[Solar Physics](#) volume 295, Article number: 64 (2020)

<https://link.springer.com/content/pdf/10.1007/s11207-020-01629-9.pdf>

27-28 Sept – геомагнитная буря **Dst-100 nT**, due to effects from CH826.

September 2017 Space-Weather Events: A Study on Magnetic Reconnection and Geoeffectiveness

Rajkumar **Hajra**

[Solar Physics](#) volume 296, Article number: 50 (2021)

<https://doi.org/10.1007/s11207-021-01803-7>

<https://link.springer.com/content/pdf/10.1007/s11207-021-01803-7.pdf>

30 Sep

How Good Is the Bipolar Approximation of Active Regions for Surface Flux Transport?

Anthony R. **Yeates**

[Solar Physics](#) volume 295, Article number: 119 (2020)

<https://link.springer.com/content/pdf/10.1007/s11207-020-01688-y.pdf>

2 Oct

A Deep Learning Approach to Generating Photospheric Vector Magnetograms of Solar Active Regions for SOHO/MDI Using SDO/HMI and BBSO Data

[Haodi Jiang](#), [Qin Li](#), [Zhihang Hu](#), [Nian Liu](#), [Yasser Abdullallah](#), [Ju Jing](#), [Genwei Zhang](#), [Yan Xu](#), [Wynne Hsu](#), [Jason T. L. Wang](#), [Haimin Wang](#)

ApJ 2022

<https://arxiv.org/pdf/2211.02278.pdf>

15 Oct

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>

18 Oct -- 06 и 08 UT: **B3 LDE**, два интенсивных CMEs из-за E-лимба

Spatial Relationship between CMEs and Prominence Eruptions during SC 24 and SC 25

Kostadinka **Koleva**^{1,2,3}, Nat Gopalswamy¹, Pooja Devi⁴, Seiji Yashiro^{1,2}, and Grzegorz Michalek⁵

2024 ApJ 966 22

<https://iopscience.iop.org/article/10.3847/1538-4357/ad2df3/pdf>

On the occurrence of type IV solar radio bursts in the solar cycle 24 and their association with coronal mass ejections

[Anshu Kumari](#), [D. E. Morosan](#), [E. K. J. Kilpua](#)

ApJ 2020

<https://arxiv.org/pdf/2011.03509.pdf>

20 Oct

Mass motion in a prominence bubble revealing a kinked flux rope configuration

Arun Kumar [Awasthi](#), [Rui Liu](#)

Frontiers in Physics - Stellar and Solar Physics

2019

<https://arxiv.org/pdf/1911.12100.pdf>

Analysis of a Type II Solar Radio Burst Observed on 20 October 2017

Whitham D. [Reeve](#)

ISWI Newsletter - Vol. 10 No. 006, 2018

<http://files.mail-list.com/m/iswinewsletter/Reeve-TypeII-Burst.pdf>

28 Oct

Chromospheric cannonballs on the Sun

Shuhong [Yang](#), [Jun Zhang](#), [Xiaohong Li](#), [Zhong Liu](#), [Yongyuan Xiang](#)

ApJL 2019

<https://arxiv.org/pdf/1906.10850.pdf>

4-5 Nov

Data-driven MHD simulation of successive solar plasma eruptions

[Takafumi Kaneko](#), [Sung-Hong Park](#), [Kanya Kusano](#)

ApJ 2021

<https://arxiv.org/pdf/2101.12395.pdf>

6-13 Nov

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

Jihyeon [Son](#)¹, Suk-Kyung [Sung](#)², Yong-Jae [Moon](#)^{1,2}, Harim [Lee](#)², and Hyun-Jin [Jeong](#)²

2023 ApJS 267 45

<https://iopscience.iop.org/article/10.3847/1538-4365/ace59a/pdf>

7 Nov

An Observational Test of Solar Plasma Heating by Magnetic Flux Cancellation

[Sung-Hong Park](#)

ApJ 2020

<https://arxiv.org/pdf/2005.07953.pdf>

10 Nov

Untwisting and Disintegration of a Solar Filament Associated with Photospheric Flux Cancellation

Huadong [Chen](#), [Ruisheng Zheng](#), [Leping Li](#), [Suli Ma](#), [Yi Bi](#), [Shuhong Yang](#)

ApJ 2018

<https://arxiv.org/pdf/1812.07139.pdf>

14 Nov

Imaging the Sun's Near-surface Flows Using Mode-coupling Analysis

Prasad [Mani](#)¹, Chris S. [Hanson](#)², and Shravan [Hanasoge](#)^{1,2}

2022 ApJ 926 127

<https://iopscience.iop.org/article/10.3847/1538-4357/ac474e/pdf>

14-25 Nov

A comparison of the active region upflow and core properties using simultaneous spectroscopic observations from IRIS and Hinode

[Krzysztof Barczynski](#), [Louise Harra](#), [Lucia Kleint](#), [Brandon Panos](#), [David H. Brooks](#)

A&A 2021

<https://arxiv.org/pdf/2104.10234.pdf>

16 Nov

Formation and Eruption of a Double-decker Filament Triggered by Micro-bursts and Recurrent Jets in the Filament Channel

Zhanjun [Tian](#), [Yuandeng Shen](#), [Yu Liu](#)

New Astronomy 2018

<https://arxiv.org/pdf/1805.12314.pdf>

24 Nov

Generate Radioheliograph Image from SDO/AIA Data with Machine Learning Method

[PeiJin Zhang](#), [Chuanbing Wang](#), [Guanshan Pu](#)

Research in Astronomy and Astrophysics 2020

<https://arxiv.org/pdf/2006.13023.pdf>

25 Nov - ~09 UT: B1.6 LDE, a filament of magnetism in the sun's northern hemisphere exploded. CME

27 Nov

An Unsupervised Machine Learning-based Algorithm for Detecting Weak Impulsive Narrowband Quiet Sun Emissions and Characterizing Their Morphology

Shabbir [Bawaji](#)^{6,1}, [Ujjaini Alam](#)¹, [Surajit Mondal](#)², [Divya Oberoi](#)³, and [Ayan Biswas](#)^{3,4,5}

2023 ApJ 954 39

<https://iopscience.iop.org/article/10.3847/1538-4357/ace042/pdf>

Insights from snapshot spectroscopic radio observations of a weak Type I noise storm

[Surajit Mondal](#), [Divya Oberoi](#)

ApJ 2021

<https://arxiv.org/pdf/2106.12779.pdf>

First radio evidence for impulsive heating contribution to the quiet solar corona

Surajit [Mondal](#), [Divya Oberoi](#), [Atul Mohan](#)

ApJL 2020

<https://arxiv.org/pdf/2004.04399.pdf>

2 Dec

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

Stephan G. [Heinemann](#), [Temmer Manuela](#), [Heinemann Niko](#), [Dissauer Karin](#), [Samara Evangelia](#), [Jerčić Veronika](#), [Stefan J. Hofmeister](#), [Astrid M Veronig](#)

Solar Phys. 294:144 2019

<https://arxiv.org/pdf/1907.01990.pdf> File

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

23 Dec

Impulsive coronal heating during the interaction of surface magnetic fields in the lower solar atmosphere

[L. P. Chitta](#), [H. Peter](#), [E. R. Priest](#), [S. K. Solanki](#)

A&A 2020

<https://arxiv.org/pdf/2010.12560.pdf>