

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

2011

Dec 2010-March 2011

The Helioseismic and Magnetic Imager (HMI) Vector Magnetic Field Pipeline:
Magnetohydrodynamics Simulation Module for the Global Solar Corona

Keiji Hayashi, J. Todd Hoeksema, Yang Liu, Monica G. Bobra, Xudong D. Sun, Aimee A. Norton
Solar Phys. 2015

<http://arxiv.org/pdf/1504.05217v1.pdf>

1 Jan

Steps toward a high precision solar rotation profile: Results from SDO/AIA coronal bright point data

Davor Sudar, Ivica Skokić, Roman Brajša, Steven H. Saar
2015 A&A

<http://arxiv.org/pdf/1501.01285v1.pdf>

1-3 Jan

Eruptions from Quiet Sun Coronal Bright Points. II. Non-Potential Modeling

Klaus Galsgaard, Maria S. Madjarska, Duncan H. Mackay, Chaozhou Mou

A&A 2019

<https://arxiv.org/pdf/1901.09875.pdf>

Eruptions from quiet Sun coronal bright points. I. Observations

Chaozhou Mou, Maria S. Madjarska, Klaus Galsgaard, Lidong Xia

A&A 2018

<https://arxiv.org/pdf/1808.04541.pdf>

Magnetic flux supplement to coronal bright points

Chaozhou Mou, Zhenghua Huang, Lidong Xia, Maria S. Madjarska, Bo Li, Hui Fu, Fangran Jiao, Zhenyong Hou

ApJ 818 9 2016

<http://arxiv.org/pdf/1511.09215v1.pdf>

Evidence of Twisted Flux-Tube Emergence in Active Regions

M. Poisson, C. H. Mandrini, P. Démoulin, M. López Fuentes

Solar Physics March 2015, Volume 290, Issue 3, pp 727-751

<http://arxiv.org/pdf/1505.01805v1.pdf>

2 Jan – 4 Feb

Real-time solar wind prediction based on SDO/AIA coronal hole data

T. Rotter (1), A.M. Veronig (1), M. Temmer (1), B. Vrsnak

Solar Phys. 2015

<http://arxiv.org/pdf/1501.06697v1.pdf>

6 Jan

Distinguishing between Flaring and Non-Flaring Active Regions: A Machine Learning Perspective

Soumitra Hazra, Gopal Sardar, Partha Choudhuri

A&A 2020

<https://arxiv.org/pdf/2003.03878.pdf>

6-9 Jan

Magnetic helicity and energy of emerging solar active regions and their eruptivity

E. Liokati (1), [A. Nindos](#) (1), [Y. Liu](#) (2)

A&A 2022

<https://arxiv.org/pdf/2202.04353.pdf>

7-25 Jan

A Semi-Automatic Method to Measure the Rotation of Sunspots

[Daniel Brown](#) & [Andrew Walker](#)

[Solar Physics](#) volume 296, Article number: 48 (2021)

<https://link.springer.com/content/pdf/10.1007/s11207-021-01787-4.pdf>

7 January - 2 March 2011

Generation of a North/South Magnetic Field Component from Variations in the Photospheric Magnetic Field

[Roger K. Ulrich](#), [Tham Tran](#)

[Solar Phys.](#) 2016

<http://arxiv.org/pdf/1603.02697v1.pdf>

8 Jan

Nonlinear Force-Free Field Modeling of the Solar Magnetic Carpet and Comparison with SDO/HMI and Sunrise/IMaX Observations

[L. P. Chitta](#), [R. Kariyappa](#), [A. A. van Ballegooijen](#), [E. E. DeLuca](#), [S. K. Solanki](#)

[ApJ](#), 2014

<http://arxiv.org/pdf/1408.0497v1.pdf>

12 Jan, >09: эрупция SW волокна; хорошо видна на SDO/304 А как темная петля и на STEREO-B; Приличный CME.

Improved methods for determining the kinematics of coronal mass ejections and coronal waves

[J. P. Byrne](#), [D. M. Long](#), [P. T. Gallagher](#), [D. S. Bloomfield](#), [S. A. Maloney](#), [R. T. J. McAteer](#), [H.](#)

[Morgan](#), [S. R. Habbal](#)

E-print, July 2013; A&A

13 Jan, >09: эрупция с четкой корональной волной на STEREO-B; Приличный CME.

Mode-Conversion of a Solar Extreme-Ultraviolet Wave over a Coronal Cavity

[Weiguo Zong](#), [Yu Dai](#)

[ApJL](#) 2017

<https://arxiv.org/pdf/1612.08574v1.pdf>

AUTOMATIC DETECTION AND TRACKING OF CORONAL MASS EJECTIONS.

II. MULTISCALE FILTERING OF CORONAGRAPH IMAGES

[Jason P. Byrne](#)¹, [Huw Morgan](#)^{1,2}, [Shadia R. Habbal](#)¹, and [Peter T. Gallagher](#)

2012 [ApJ](#) 752 145 File

14 Jan, >03: еще одна эрупция из той же области на STEREO-B;

для SDO на NE лимбе с C2 LDE вспышкой; Приличный CME.

16 Jan

Comparison of Cylindrical Interplanetary Flux-Rope Model Fitting with Different Boundary Pitch-Angle Treatments

N. Nishimura, K. Marubashi, M. Tokumaru

Solar Physics April 2019, 294:49

<https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1435-5.pdf>

Spectral Structures and Their Generation Mechanisms for Solar Radio Type-I Bursts

Kazumasa Iwai, Yoshizumi Miyoshi, Satoshi Masuda, Fuminori Tsuchiya, Akira Morioka, Hiroaki Misawa

ApJ, 2014

<http://arxiv.org/pdf/1405.0708v1.pdf>

17 Jan

Categorization of Coronal Mass Ejection Driven Sheath Regions: Characteristics of STEREO Events

T. M. Salman, N. Lugaz, R. M. Winslow, C. J. Farrugia, L. K. Jian, A. B. Galvin

ApJ 2021

<https://arxiv.org/pdf/2106.12076.pdf>

17-18 Jan

Calibration of Hinode/XRT for Coalignment

Yoshimura, K., McKenzie, David E.

Solar Phys. 2015

http://vlstone.physics.montana.edu/yosimura/hinode/coalignment/KY_coal_paper_20150706.pdf

18 Jan

A nanoflare based cellular automaton model and the observed properties of the coronal plasma

Marcelo López Fuentes, James A. Klimchuk

ApJ 2016

<http://arxiv.org/pdf/1607.03917v1.pdf>

19 Jan

Association Between Magnetic Pressure Difference and the Movement of Solar Pores

Merlin M. Mendoza & Chia-Hsien Lin

2023 **ApJ** 946 9

<https://iopscience.iop.org/article/10.3847/1538-4357/acbe43/pdf>

Is There a Dynamic Difference between Stealthy and Standard Coronal Mass Ejections?

Beili Ying¹, Alessandro Bemporad^{2,1}, Li Feng^{1,3}, Nariaki V. Nitta⁴, and Weiqun Gan^{1,3}

2023 **ApJ** 942 3

<https://iopscience.iop.org/article/10.3847/1538-4357/aca52c/pdf>

19-24 Jan

Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures

Nariaki V. Nitta, Tamitha Mulligan

Solar Physics September 2017, 292:125 File

20 Jan

Segmentation of Coronal Holes Using Active Contours Without Edges

L. E. Boucheron, M. Valluri, R. T. J. McAteer

Solar Phys. 2016

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

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

20 Jan-16 Feb

The Nonpotentiality of Steady-state Coronal Magnetic Field Derived with Time-relaxation Magnetohydrodynamics Simulations Using Helioseismic and Magnetic Imager Three-component Magnetic Field Data

Keiji Hayashi¹, Chin-Chun Wu², and Kan Liou³

2022 ApJ 940 82

<https://iopscience.iop.org/article/10.3847/1538-4357/ac9b25/pdf>

21 Jan

Measuring and modeling the rate of separator reconnection between an emerging and existing active region

Marika I. McCarthy, Dana W. Longcope, Anna Malanushenko, David E. McKenzie

ApJ 2019

<https://arxiv.org/pdf/1911.06340.pdf>

OBSERVATIONS OF SOLAR ENERGETIC PARTICLES FROM 3He-RICH EVENTS OVER A WIDE RANGE OF HELIOGRAPHIC LONGITUDE

M. E. Wiedenbeck¹, G. M. Mason², C. M. S. Cohen³, N. V. Nitta⁴, R. Gómez-Herrero^{5,6}, and D. K Haggerty

2013 ApJ 762 54

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

23 Jan, >22 с продолжением 24-ого: крупная SW эрупция волокна на диске и над/за Лимбом, хорошо видна на SDO/304 A ; CME

Solar Cosmic Rays, Neutrons, and Fermi Gamma-Rays,

Hugh Hudson and Alec MacKinnon

RHESSI Science Nuggets, No. 227, May, 2014:

http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Solar_Cosmic_Rays,_Neutrons,_and_Fermi_Gamma-Rays

Spectral Structures and Their Generation Mechanisms for Solar Radio Type-I Bursts

Kazumasa Iwai, Yoshizumi Miyoshi, Satoshi Masuda, Fuminori Tsuchiya, Akira Morioka, Hiroaki Misawa

ApJ, 2014

<http://arxiv.org/pdf/1405.0708v1.pdf>

24 Jan, >00: крупная SW эрупция волокна на диске и над/за лимбом, хорошо видна на SDO/304 A ; CME

>06: еще одна непродолжительная C1.5 вспышка из АО 1149

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations

Richard A. Harrison, Jackie A. Davies, David Barnes, Christian Möstl

Space Weather 2023

<https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf>

Identifying Flux Rope Signatures Using a Deep Neural Network

Luiz F. G. dos Santos, [Ayris Narock](#), [Teresa Nieves-Chinchilla](#), [Marlon Nuñez](#), [Michael Kirk](#)

Solar Phys. 2020

<https://arxiv.org/pdf/2008.13294.pdf>

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation

Nishtha Sachdeva

Ph.D. Thesis 2019

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

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

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

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

A&A 2021

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

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

Spectral Structures and Their Generation Mechanisms for Solar Radio Type-I Bursts

Kazumasa Iwai, **Yoshizumi Miyoshi**, **Satoshi Masuda**, **Fuminori Tsuchiya**, **Akira Morioka**, **Hiroaki Misawa**

ApJ, 2014

<http://arxiv.org/pdf/1405.0708v1.pdf>

PEAK FLUX DISTRIBUTIONS OF SOLAR RADIO TYPE-I BURSTS FROM HIGHLY RESOLVED SPECTRAL OBSERVATIONS

K. Iwai¹, **S. Masuda**², **Y. Miyoshi**², **F. Tsuchiya**³, **A. Morioka**³, and **H. Misawa**

2013 ApJ 768 L2

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

On the Origin of a Broad Quasiperiodic Fast-propagating Wave Train: Unwinding Jet as the Driver

Xinping **Zhou**^{1,2}, Zehao Tang³, Zhining Qu¹, Ke Yu¹, Chengrui Zhou³, Yuqi Xiang¹, Ahmed Ahmed Ibrahim⁴, and Yuandeng Shen

2024 ApJL 974 L3

<https://iopscience.iop.org/article/10.3847/2041-8213/ad7a68/pdf>

On the origin of a broad QFP wave train: unwinding jet as the driver

[Xinping Zhou](#), [Zehao Tang](#), [Zhining Qu](#), [Ke Yu](#), [Chengrui Zhou](#), [Yuqi Xiang](#), [Ahmed Ahmed Ibrahim](#), [Yuandeng Shen](#)

ApJ 2024

<https://arxiv.org/pdf/2409.17741>

Impulsive Solar Energetic Particle Events: EUV Waves and Jets **MINI REVIEW**

R. Bucik

Front. Astron. Space Sci. 9? 807961 2021

<https://doi.org/10.3389/fspas.2021.807961>

<https://arxiv.org/abs/2112.14282>

Correcting Doppler Shifts in He II 30.38 nm Line by Using the EVE and AIA data from Solar Dynamics Observatory

[Zhixun Cheng](#), [Yuming Wang](#), [Rui Liu](#)

2021

<https://arxiv.org/ftp/arxiv/papers/2102/2102.13362.pdf>

Radio Observations of Coronal Mass Ejection Initiation and Development in the Low Solar Corona Review

[Eoin P. Carley](#), [Nicole Vilmer](#) and [Angelos Vourlidas](#)

Front. Astron. Space Sci. **7:551558**. 2020 File

<https://www.frontiersin.org/articles/10.3389/fspas.2020.551558/full>

<https://sci-hub.st/https://www.frontiersin.org/articles/10.3389/fspas.2020.551558/full>

A new method for estimating global coronal wave properties from their interaction with solar coronal holes

[I. Piantschitsch](#), [J. Terradas](#), [M. Temmer](#)

A&A 2020

<https://arxiv.org/pdf/2006.07293.pdf>

The initial morphologies of the wavefronts of extreme ultraviolet waves

[Ruisheng Zheng](#), [Zhike Xue](#), [Yao Chen](#), [Bing Wang](#), [Hongqiang Song](#)

ApJL 2018

<https://arxiv.org/pdf/1812.08371.pdf>

A Statistical Analysis of the Solar Phenomena Associated with Global EUV Waves (Review)

[David M. Long](#), [Pearse Murphy](#), [Georgina Graham](#), [Eoin P. Carley](#), [David Pérez-Suárez](#)

Solar Phys. 2017

<https://arxiv.org/pdf/1711.02530.pdf>

Homologous solar events on 2011 January 27: Build-up and propagation in a complex coronal environment

[M. Pick](#), [G. Stenborg](#), [P. Demoulin](#), [P. Zucca](#), [A. Lecacheux](#)

ApJ 2016

http://www.lesia.obspm.fr/perso/pascal-demoulin/16/pick16_homologous_CMEs.pdf File

Statistical Analysis of Large-scale EUV Waves Observed by STEREO/EUVI

[Nicole Muhr](#), [Astrid Maria Veronig](#), [Ines Waltraud Kienreich](#), [Bojan Vrsnak](#), [Manuela Temmer](#), [Bianca Maria Bein](#)

Solar Phys., 2014

<http://arxiv.org/pdf/1408.2513v1.pdf>

Advances in Observing Various Coronal EUV Waves in the SDO Era and Their Seismological Applications (Invited Review)

[Wei Liu](#), [Leon Ofman](#)

E-print, April 2014; *Solar Physics (Topical Issue, "Exploring the Network of SDO Science")*

http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf

Reflection of Coronal Global Waves

[Ines Kienreich](#) and [Hugh Hudson](#)

RHESSI Science Nugget, No. 217, 2014

Solar TERrestrial Relations Observatory-A (STEREO-A) and PROject for On-Board Autonomy 2 (PROBA2) Quadrature Observations of Reflections of Three EUV Waves from a Coronal Hole

I. W. [Kienreich](#), N. Muhr, A. M. Veronig, D. Berghmans, A. De Groof, M. Temmer, B. Vršnak and D. B. Seaton
Solar Physics, August 2013, Volume 286, Issue 1, pp 201-219, File

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections

N. [Gopalswamy](#), H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C. Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi, N. V. Nitta, M. J. Aschwanden, D. P. Choudhary
E-print, Jan 2013; Adv. Space Res.

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

Y. [Dai](#)^{1,2}, M. D. [Ding](#)^{1,2}, P. F. [Chen](#)^{1,2}, and J. [Zhang](#)³
E-print, Aug 2012, File; ApJ 759 55, 2012

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

28 Jan, ~00: эрупция волокна над SE лимбом;

01: M1.3 вспышка и эрупция на/над NW лимбом на SDO/304 A; CME, небольшие

Протоны

Unveiling Mass Transfer in Solar Flares: Insights from Elemental Abundance Evolutions Observed by Chang'E-2 Solar X-ray Monitor

[Man-Hei Ng](#), [Chi-Long Tang](#), [Xiaoping Zhang](#), [Kuan-Vai Tam](#), [Peng-Fei Chen](#), [Wudong Dong](#), [Jing Li](#), [Chi-Pui Tang](#)

ApJ 2024

<https://arxiv.org/pdf/2407.02199>

Transient Mass Loss Analysis of Solar Observations using Stellar Methods

M. K. [Crosley](#), R. A. [Osten](#), C. [Norman](#)

2017

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

Stereoscopic Observation of Slipping Reconnection in A Double Candle-Flame-Shaped Solar Flare

[Tingyu Gou](#), [Rui Liu](#), [Yuming Wang](#), [Kai Liu](#), [Bin Zhuang](#), [Jun Chen](#), [Quanhao Zhang](#), [Jiajia Liu](#)

ApJ Letters 2016

<http://arxiv.org/pdf/1604.01457v1.pdf>

Calibration of Hinode/XRT for Coalignment

[Yoshimura, K.](#), [McKenzie, David E.](#)

Solar Phys. 2015

http://vlstone.physics.montana.edu/yosimura/hinode/coalignment/KY_coal_paper_20150706.pdf

Temperature and Electron Density Diagnostics of a Candle-flame-shaped Flare

S. E. [Guidoni](#), D. E. [McKenzie](#), D. W. [Longcope](#), J. E. [Plowman](#), and K. [Yoshimura](#)

ApJ 2015

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections

N. [Gopalswamy](#), H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C. Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi, N. V. Nitta, M. J. Aschwanden, D. P. Choudhary

E-print, Jan 2013; Adv. Space Res.

28-31 Jan

Motion and transport of solar cosmic rays in heliospheric traps: The event on January 28–31, 2001

V. I. Tulupov, E. E. Grigorenko, N. A. Vlasova, G. P. Lyubimov
Cosmic Research, November 2012, Volume 50, Issue 6, pp 397-404
Kosmicheskie Issledovaniya, 2012, Vol. 50, No. 6, pp. 427–434.

29 Jan

Imaging and Spectroscopic Observations of a Filament Channel and the Implications for the Nature of Counter-streamings

P. F. Chen, L. K. Harra, and C. Fang
2014 ApJ 784 50

30 Jan - >17, эрупция NW волокна

Analysis of large deflections of prominence-CME events during the rising phase of solar cycle 24

[M.V. Sieyra](#), [M. Cécere](#), [H. Cremades](#), [F.A. Iglesias](#), [A. Sahade](#), [M. Mierla](#), [G. Stenborg](#), [A. Costa](#), [M. West](#), [E. D'Huvs](#)

2020

<https://arxiv.org/pdf/2007.14317.pdf>

30-31 Jan

CMEs in the Heliosphere: II. A Statistical Analysis of the Kinematic Properties Derived from Single-Spacecraft Geometrical Modelling Techniques Applied to CMEs Detected in the Heliosphere from 2007 to 2017 by STEREO/HI-1

[D. Barnes](#), [J. A. Davies](#), [R. A. Harrison](#), [J. P. Byrne](#), [C. H. Perry](#)...
[Solar Physics](#) May 2019, 294:57

<https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1444-4.pdf>

30 Jan-4 Feb

Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures

[Nariaki V. Nitta](#), [Tamitha Mulligan](#)

[Solar Physics](#) September 2017, 292:125 File

31 Jan

Coronal Mass Ejection Image Edge Detection In Heliospheric Imager STEREO SECCHI Data
[Marc Nchitiu](#)

2022

<https://arxiv.org/pdf/2202.07678.pdf>

Widespread Occurrence of High-Velocity Upflows in Solar Active Regions

[S. L. Yardley](#), [D. H. Brooks](#), [D. Baker](#)

[A&A](#) 2021

<https://arxiv.org/pdf/2106.01396.pdf>

31 Jan- 1 Feb

Signature and escape of highly fractionated plasma in an active region

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

[MNRAS](#) 2021

<https://arxiv.org/pdf/2109.11157.pdf>

1 Feb

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

Janusz Nicewicz, , Grzegorz Michalek

Advances in Space Research, 2014

THE HEIGHT EVOLUTION OF THE "TRUE" CORONAL MASS EJECTION MASS DERIVED FROM STEREO COR1 AND COR2 OBSERVATIONS

B. M. Bein¹, M. Temmer¹, A. Vourlidas², A. M. Veronig¹, and D. Utz

2013 ApJ 768 31; File

1-9 Feb

Statistical Analysis of the Horizontal Divergent Flow in Emerging Solar Active Regions

Shin Toriumi, Keiji Hayashi, Takaaki Yokoyama

ApJ, 2014

<http://arxiv.org/pdf/1408.2383v1.pdf>

1 Feb - 11 March

High-Speed Solar Wind Streams and Geomagnetic Storms During Solar Cycle 24

M. Gerontidou, H. Mavromichalaki, T. Daglis

Solar Physics September 2018, 293:131

<https://link.springer.com/article/10.1007/s11207-018-1348-8>

2 Feb

Measuring magnetic field with Atacama Large Millimeter/Submillimeter Array **Review**

Maria Loukitcheva

Front. Astron. Space Sci. 7:45 2020

https://www.frontiersin.org/articles/10.3389/fspas.2020.00045/full?utm_source=F-

[AAE&utm_medium=EMLF&utm_campaign=MRK_1406443_76_Astron_20200818_arts_A](https://www.frontiersin.org/articles/10.3389/fspas.2020.00045/full?utm_source=F-AAE&utm_medium=EMLF&utm_campaign=MRK_1406443_76_Astron_20200818_arts_A)

<https://doi.org/10.3389/fspas.2020.00045>

2-15 Feb

Deep-learning Reconstruction of Sunspot Vector Magnetic Fields for Forecasting Solar Storms

Dattaraj B. Dhuri^{1,2}, Shamik Bhattacharjee¹, Shravan M. Hanasoge^{1,2}, and Sashi Kiran

Mahapatra¹

2022 ApJ 939 64

<https://iopscience.iop.org/article/10.3847/1538-4357/ac9413/pdf>

3 Feb

Coronal Magnetic Fields Derived from Simultaneous Microwave and EUV Observations and Comparison with the Potential Field Model

Shun Miyawaki, Kazumasa Iwai, Kiyoto Shibasaki, Daikou Shiota, Satoshi Nozawa

ApJ 2015

<http://arxiv.org/pdf/1512.04198v1.pdf>

4 Feb

Single ICMEs and Complex Transient Structures in the Solar Wind in 2010 – 2011

D. Rodkin, V. Slemzin, A. N. Zhukov, F. Goryaev, Y. Shugay, I. Veselovsky

Solar Physics May 2018, 293:78

<https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1295-4.pdf>

4-6 Feb

Classification of Enhanced Geoeffectiveness Resulting from High-Speed Solar Wind Streams Compressing Slower Interplanetary Coronal Mass Ejections

Stephan G. [Heinemann](#), [Chaitanya Sishtla](#), [Simon Good](#), [Maxime Grandin](#), [Jens Pomoell](#)

ApJ 2024

<https://arxiv.org/pdf/2402.08065.pdf>

8 Feb

Circular-ribbon flares and the related activities

Review

[Qingmin Zhang](#)

Reviews of Modern Plasma Physics 2024

<https://arxiv.org/pdf/2401.16101.pdf>

³He-rich solar energetic particles: Solar sources

Review

[R. Bucik](#)

Space Sci Rev 2020

<https://arxiv.org/pdf/2002.09442.pdf>

How Rotating Solar Atmospheric Jets Become Kelvin--Helmholtz Unstable

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

Frontiers (of Physics) 2019

<https://arxiv.org/pdf/1905.10789.pdf>

A coronal hole jet observed with Hinode and the Solar Dynamics Observatory

[Peter R. YOUNG](#)^{1,*} and [Karin MUGLACH](#)^{2,3}

Publ. Astron. Soc. Japan (2014) 66 (SP1), S12 (1–9)

<http://pasj.oxfordjournals.org/content/66/SP1/S12.full.pdf+html>

CorPITA: An Automated Algorithm for the Identification and Analysis of Coronal "EIT Waves"

[David M. Long](#), [D. Shaun Bloomfield](#), [Peter T. Gallagher](#), [David Pérez-Suárez](#)

Solar Phys., 2014

<http://arxiv.org/pdf/1403.6722v1.pdf>

8-10 Feb

Dark jets in solar coronal holes

[Peter R. Young](#)

ApJ 801 124 2015

<http://arxiv.org/pdf/1501.02751v1.pdf>

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

9 Feb

Decimetric type U solar radio bursts and associated EUV phenomena on 2011 February 9

[Guannan Gao](#) (corr-auth), [Qiangwei Cai](#), [Shaojie Guo](#), [Min Wang](#)

ApJ 2021

<https://arxiv.org/pdf/2110.10012.pdf>

Decimetric and metric digital solar radio spectrometers of the Yunnan Astronomical Observatories and the first-light results

[G. Gao](#), [M. Wanga](#), [L. Donga](#), [N. Wu](#), [J. Lin](#)

New Astron. Volume 30, July 2014, Pages 68–78

<http://www.sciencedirect.com/science/article/pii/S1384107614000153>

Spatially resolved observation of the fundamental and second harmonic standing kink modes using SDO/AIA

D. J. Pascoe, C. R. Goddard, and V. M. Nakariakov

A&A 2016

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THE HEIGHT EVOLUTION OF THE "TRUE" CORONAL MASS EJECTION MASS DERIVED FROM STEREO COR1 AND COR2 OBSERVATIONS

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Rui Liu^{1,2}, Chang Liu², Tibor Török³, Yuming Wang¹, and Haimin Wang
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RAPID CHANGES OF PHOTOSPHERIC MAGNETIC FIELD AFTER TETHER-CUTTING RECONNECTION AND MAGNETIC IMPLOSION

Chang Liu¹, Na Deng^{1,2}, Rui Liu¹, Jeongwoo Lee³, Thomas Wiegmann⁴, Ju Jing¹, Yan Xu¹, Shuo Wang¹ and Haimin Wang
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Feb 13-15

Case studies on pre-eruptive X-class flares using R-value in the lower solar atmosphere

[Shreeyesh Biswal](#), [Marianna B. Korsós](#), [Manolis K. Georgoulis](#), [Alexander Nindos](#), [Spiros Patsourakos](#), [Robertus Erdélyi](#)

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<https://arxiv.org/pdf/2408.04018>

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

Khojiakbar [Karimov](#)¹, Harim Lee², Hyun-Jin Jeong², Yong-Jae Moon^{1,2}, Jihye Kang², Jihyeon Son¹, Mingyu Jeon¹, and Kanya Kusano³

2024 ApJL 965 L5

<https://iopscience.iop.org/article/10.3847/2041-8213/ad3548/pdf>

Changes of Magnetic Energy and Helicity in Solar Active Regions from Major Flares

[Yang Liu](#), [Brian T. Welsch](#), [Gherardo Valori](#), [Manolis K. Georgoulis](#), [Yang Guo](#), [Etienne Pariat](#), [Sung-Hong Park](#), [Julia K. Thalmann](#)

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A New Parameter of the Photospheric Magnetic Field to Distinguish Eruptive-flare Producing Solar Active Regions

Pei Hsuan [Lin](#)¹, Kanya Kusano¹, Daikou Shiota², Satoshi Inoue¹, K. D. Leka^{1,3}, and Yuta Mizuno¹

2020 ApJ 894 20

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Satoshi Inoue [Yumi BambacKanya Kusano](#)

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[Bušić](#) · K. [Salamon](#) · M. [Temmer](#) · T. [Rollett](#) · A. [Veronig](#) · N. [Bostanjyan](#) · A. [Chilingarian](#) · B.

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MAGNETIC STRUCTURE PRODUCING X- AND M-CLASS SOLAR FLARES IN SOLAR ACTIVE REGION 11158

S. [Inoue](#)¹, K. [Hayashi](#)², D. [Shiota](#)^{3,4}, T. [Magara](#)¹, and G. S. [Choe](#)

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ON THE ROLE OF ROTATING SUNSPOTS IN THE ACTIVITY OF SOLAR ACTIVE REGION NOAA 11158

P. [Vemareddy](#)¹, A. [Ambastha](#)¹, and R. A. [Maurya](#)

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Feb 13-18

Changes of Magnetic Energy and Helicity in Solar Active Regions from Major Flares

[Yang Liu](#), [Brian T. Welsch](#), [Gherardo Valori](#), [Manolis K. Georgoulis](#), [Yang Guo](#), [Etienne Pariat](#), [Sung-Hong Park](#), [Julia K. Thalmann](#)
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Quantitative Comparison of Methods for Predicting the Arrival of Coronal Mass Ejections at Earth based on multi-view imaging†
[R. C. Colaninno*](#), [A. Vourlidas](#), [C. C. Wu](#)
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Magnetic Energy and Helicity Budgets in NOAA AR 11158
[Kostas Tziotziou](#), [Manolis K. Georgoulis](#), [Yang Liu](#)
E-print, June 2013; ApJ

The Successive CME on 13th; 14th and 15th February 2011 and Forbush decrease on 18 February 2011

D Maričić¹, N Bostasyan², M Dumbović³, A Chilingarian², B Mailyan², H Rostomyan², K Arakelyan², B Vršnak³, D Rošal¹, D Hržina¹, I Romštajn¹ and A Veronig
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ANALYSIS ON CORRELATIONS BETWEEN SUBSURFACE KINETIC HELICITY AND PHOTOSPHERIC CURRENT HELICITY IN ACTIVE REGIONS

Yu Gao¹, Junwei Zhao², and Hongqi Zhang
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Сомнительный, прилиббовый на STEREO-A

14 Feb – 17:26: M2.2 вспышка, **пересвет** на STEREO-A $A=9*2/313=0,06$

February 14: A CME was observed in association with an M2 event in region 11158 and could reach Earth on February 17.

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

Review

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Spectral cleaving in solar type II radio bursts: Observations and interpretation

Artem Koval^{1,✉}, Marian Karlický¹, Anatolii Brazhenko², Aleksander Stanislavsky³, Anatolii Frantsuzenko², Marek Vandas¹, Aleksander Konovalenko³, Miroslav Bárta¹, Ihor Bubnov³, Rositsa Miteva⁴ and Serge Yerin³

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Mohsen Javaherian, Zahra Eskandari

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Observations of Twist, Current Helicity, and Writhe in the Magnetic Knots of δ -sunspots Consistent with the Kink Instability of a Highly Twisted Flux Rope

Peter J. Levens¹, Aimee A. Norton¹, Mark G. Linton², Kalman J. Knizhnik², and Yang Liu¹

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Statistical analysis of the onset temperature of solar flares in 2010-2011

Douglas Félix da Silva, Li Hui, Paulo J. A. Simões, Adriana Valio, Joaquim C. E. R., Hugh S. Hudson, Paulo J. A. Simoes, Lyndsay Fletcher, Laura A. Hayes, Iain G. Hannah

MNRAS 2023

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Full velocities and propagation directions of coronal mass ejections inferred from simultaneous full-disk imaging and Sun-as-a-star spectroscopic observations

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L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations

Richard A. [Harrison](#), [Jackie A. Davies](#), [David Barnes](#), [Christian Möstl](#)
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<https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf>

A Systematic Magnetic Polarity Inversion Line Data Set from SDO/HMI Magnetograms
Anli [Ji](#)¹, Xumin Cai¹, Nigar Khasayeva¹, Manolis K. Georgoulis², Petrus C. Martens³, Rafal A. Angryk¹, and Berkay Aydin¹
2023 ApJS 265 28
<https://iopscience.iop.org/article/10.3847/1538-4365/acb43a/pdf>

Coronal Quasi-periodic Fast-mode Propagating Wave Trains Review
[Yuandeng Shen](#), [Xinping Zhou](#), [Yadan Duan](#), [Zehao Tang](#), [Chengrui Zhou](#), [Song Tan](#)
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[Hugh S. Hudson](#), [Paulo J. A. Simoes](#), [Lyndsay Fletcher](#), [Laura A. Hayes](#), [Iain G. Hannah](#)
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Magnetic helicity budget of solar active regions prolific of eruptive and confined flares
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Submillimeter radiation as the thermal component of the Neupert Effect
[Jorge Fernando Valle Silva](#), [C. Guillermo Giménez de Castro](#), [Paulo José de Aguiar Simões](#), [Jean-Pierre Raulin](#)
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[Hongqi Zhang](#)¹ and [Axel Brandenburg](#)
2018 ApJL 862 L17
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Coronal EUV, QFP, and kink waves simultaneously launched during the course of jet-loop interaction
[Yuandeng Shen](#), [Zehao Tang](#), [Hongbo Li](#), [Yu Liu](#)
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Studying the Transfer of Magnetic Helicity in Solar Active Regions with the Connectivity-based Helicity Flux Density Method
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[Lijuan Liu](#), [Yuming Wang](#), [Rui Liu](#), [Zhenjun Zhou](#), [M. Temmer](#), [J. K. Thalmann](#), [Jiajia Liu](#), [Kai Liu](#), [Chenglong Shen](#), [Quanhao Zhang](#), [A. M. Veronig](#)

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Three-Dimensional Nonlinear Force-Free Field Reconstruction of Solar Active Region 11158 by Direct Boundary Integral Equation

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Solar Physics, December 2013, Volume 288, Issue 2, pp 507-529

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Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections

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OBSERVATION OF HIGH-SPEED OUTFLOWS IN CORONAL LOOPS ASSOCIATED WITH PHOTOSPHERIC MAGNETIC FIELD EVOLUTION

J. T. [Su](#)¹, Y. [Liu](#)², Y. D. [Shen](#)², S. [Liu](#)¹, and X. J. [Mao](#)
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IMAGING OBSERVATIONS OF QUASI-PERIODIC PULSATIONS IN SOLAR FLARE LOOPS WITH SDO/AIA

J. T. [Su](#)¹, Y. D. [Shen](#)², Y. [Liu](#)², Y. [Liu](#)³, and X. J. [Mao](#)
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EXTREME-ULTRAVIOLET MULTI-WAVELENGTH OBSERVATIONS OF QUASI-PERIODIC PULSATIONS IN A SOLAR POST-FLARE CUSP-SHAPE LOOP WITH SDO/AIA

J. T. [Su](#)¹, Y. D. [Shen](#)², and Y. [Liu](#)
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What can we learn about solar coronal mass ejections, coronal dimmings, and Extreme-Ultraviolet jets through spectroscopic observations?

Hui [Tian](#), Scott W. [McIntosh](#), Lidong [Xia](#), Jiansen [He](#), Xin [Wang](#)
E-print, Jan 2012, File; *ApJ*

Febr 14-15-17

Propagation of Coronal Mass Ejections from the Sun to Earth

Review

Wageesh [Mishra](#), [Luca Teriaca](#)

Journal of Astrophysics and Astronomy 2022

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Solar Flares and Magnetic Helicity

Review

[Shin Toriumi](#), [Sung-Hong Park](#)

A chapter in the AGU book "Helicities in Geophysics, Astrophysics and Beyond" 2022

<https://arxiv.org/pdf/2204.06010.pdf>

The PDFI_SS Electric Field Inversion Software

George H. [Fisher](#), Maria D. [Kazachenko](#), Brian T. [Welsch](#), Xudong [Sun](#), Erkka [Lumme](#), David J. [Bercik](#), Marc L. [DeRosa](#), Mark C. M. [Cheung](#)

ApJS 248:2 (52pp) 2020

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Assessing the collision nature of coronal mass ejections in the inner heliosphere

Wageesh [Mishra](#), [Yuming Wang](#), [Nandita Srivastava](#), [Chenglong Shen](#)

ApJ Supplement Series 2017

<https://arxiv.org/pdf/1707.08299.pdf>

Relationship of EUV Irradiance Coronal Dimming Slope and Depth to Coronal Mass Ejection Speed and Mass

James Paul [Mason](#), Thomas N. [Woods](#), David F. [Webb](#), [Barbara J. Thompson](#), [Robin C. Colaninno](#), [Angelos Vourlidas](#)

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Triangulation of the continuum-like radio emission in a CME-CME interaction event
Jasmina Magdalenic*1 , **Manuela Temmer2** , **Vratislav Krupar3,4** , **Christophe Marques5** ,
Astrid Veronig2 , and **Bojan Vrsnak**

CESRA 2016 p.69

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Interaction Between Two CMEs During 14 – 15 February 2011 and Their Unusual Radio Signature

A. Shanmugaraju, **S. Prasanna Subramanian**, **Bojan Vrsnak**, **M. Syed Ibrahim**
Solar Physics, 2014; File

Pathways of large-scale magnetic couplings between coronal events

C.J. Schrijver, **A.M. Title**, **A.R. Yeates** and **M.L. DeRosa**

E-print, May 2013, File; ApJSS

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

February 15: The X2 event in region 11158 was associated with a full halo CME. The CME could reach Earth on February 17. Четкая **корональная волна** по всему диску, продолжающаяся в виде красивого гало.

Интересно то, что наблюдалось гораздо позже вспышки. На SDO 304 A

после ~03:50 и 05:00 видны крупные трансэкваториальные эрупции, которые распространялись к восточному лимбу и затеняли большие площадки диска. Это можно видеть по фильмам на сайтах

<http://www.spaceweather.com/> и <http://sdo.gsfc.nasa.gov/data/aiahmi/dayform.php>, а также на разностном фильме PROBA2 <http://proba2.oma.be/index.html/>. Судя по грубой картинке HIRAISSO в радиоизлучении поглощение увидеть трудно.

Forbush ~4% 18-ого при небольшой буре.

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

2011-02-15, 2011-03-09, 2011-09-26, 2011-11-05, 2012-03-07, 2014-10-24, 2015-01-30, 2015-03-11, 2017-09-06

Deciphering the Evolution of Thermodynamic Properties and their Connection to the Global Kinematics of High-Speed Coronal Mass Ejections Using FRIS Model

Soumyaranjan Khuntia, **Wageesh Mishra**, **Yuming Wang**, **Sudheer K Mishra**, **Teresa Nieves-Chinchilla**, **Shaoyu Lyu**

MNRAS 2024

<https://arxiv.org/pdf/2411.03639>

Improving the Spectral Resolution and Wavelength Scale of SDO/EVE MEGS-A Flare Observations.

Gonzalez, G., Chamberlin, P. & Herde, V.

Sol Phys 299, 151 (2024).

<https://link.springer.com/content/pdf/10.1007/s11207-024-02394-9.pdf>

<https://doi.org/10.1007/s11207-024-02394-9>

Photospheric signatures of CME onset

O P M Aslam, **D MacTaggart**, **T Williams**, **L Fletcher**, **P Romano**
MNRAS, Volume 534, Issue 1, October 2024, Pages 444–454,

<https://doi.org/10.1093/mnras/stae2110>

<https://watermark.silverchair.com/stae2110.pdf>

A data-driven MHD simulation of the 2011-02-15 coronal mass ejection from Active Region NOAA 11158

[Yuhong Fan](#), [Maria D. Kazachenko](#), [Andrey N. Afanasyev](#), [George H. Fisher](#)

ApJ 2024

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Photospheric signatures of CME onset

[Aslam Ottupara](#), [David MacTaggart](#), [Tom Williams](#), [Lyndsay Fletcher](#), [Paolo Romano](#)

MNRAS 2024

<https://arxiv.org/pdf/2409.07261>

Image Synthesis for Solar Flare Prediction

Elad [Amar](#)¹ and Ohad Ben-Shahar²

ApJS 271 29 2024

<https://iopscience.iop.org/article/10.3847/1538-4365/ad1dd4/pdf>

The Evolution of Ion Charge States in Coronal Mass Ejections

[J. Martin Laming](#), [Elena Provornikova](#), [Yuan-Kuen Ko](#)

ApJ 2023

<https://arxiv.org/pdf/2307.15762.pdf>

A comparative study of data-driven MHD simulations of solar coronal evolution with photospheric flows derived from two different approaches.

Xinyi [Wang](#), Chaowei Jiang, Xueshang Feng, Boyi Wang, and Bo Chen

Front. Astron. Space Sci. 10: 1157304. 2023

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Hybrid data-driven magnetofrictional and magnetohydrodynamic simulations of an eruptive solar active region

[A. Afanasyev](#), [Y. Fan](#), [M. Kazachenko](#), [M. Cheung](#)

ApJ 2023

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The Photospheric Imprints of Coronal Electric Currents

[Brian T. Welsch](#)

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A statistical study of magnetic field changes in the photosphere during solar flares using high-cadence vector magnetograms and their association with flare ribbons

[Rahul Yadav](#), [Maria D. Kazachenko](#)

ApJ 2022

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Precursor Identification for Strong Flares Based On Anomaly Detection Algorithm

[Jingjing Wang](#), [Bingxian Luo](#), and [Siqing Liu](#)

Front. Astron. Space Sci. 9:1037863. 2022

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<https://www.frontiersin.org/articles/10.3389/fspas.2022.1037863/pdf>

Exploring the Limits of Synthetic Creation of Solar EUV Images via Image-to-image Translation

Valentina Salvatelli^{1,2,3}, Luiz F. G. dos Santos⁴, Souvik Bose^{5,6,7,8}, Brad Neuberg^{1,2,9}, Mark C. M. Cheung⁷, Miho Janvier¹⁰, Meng Jin^{2,7}, Yarin Gal¹¹, and Atilim Güneş Baydin¹²
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Ryan O. Milligan1, Phillip C. Chamberlin2, Hugh S. Hudson3, Thomas N. Woods4, Mihalis Mathioudakis1, Lyndsay Fletcher5, Adam F. Kowalski6 and Francis P. Keenan1
2012 *ApJ* **748 L14**

DOME-SHAPED EUV WAVES FROM ROTATING ACTIVE REGIONS

M. Selwa1, S. Poedts1 and C. R. DeVore
2012 *ApJ* **747 L21**, File

VELOCITY AND MAGNETIC TRANSIENTS DRIVEN BY THE X2.2 WHITE-LIGHT FLARE OF [2011 FEBRUARY 15](#) IN NOAA 11158

R. A. Maurya1,2, P. Vemareddy1 and A. Ambastha
2012 *ApJ* **747 134**

RESPONSE OF THE PHOTOSPHERIC MAGNETIC FIELD TO THE X2.2 FLARE ON 2011
FEBRUARY 15

Shuo Wang¹, Chang Liu¹, Rui Liu¹, Na Deng¹, Yang Liu² and Haimin Wang
2012 *ApJ* 745 L17

Flare Observations of the EUV Continua

Ryan Milligan

RHESSI Science Nugget No. 167, Jan 2012

MICROWAVE ZEBRA PATTERN STRUCTURES IN THE X2.2 SOLAR FLARE ON 2011
FEBRUARY 15

Baolin Tan¹, Yihua Yan¹, Chengming Tan¹, Robert Sych^{1,2} and Guannan Gao
2012 *ApJ* 744 166

RAPID SUNSPOT ROTATION ASSOCIATED WITH THE X2.2 FLARE ON 2011 FEBRUARY 15
Yunchun Jiang¹, Ruisheng Zheng^{1,2}, Jiayan Yang^{1,3}, Junchao Hong^{1,2}, Bi Yi^{1,2} and Dan Yang
2012 *ApJ* 744 50

THE 2011 FEBRUARY 15 X2 FLARE, RIBBONS, CORONAL FRONT, AND MASS EJECTION:
INTERPRETING THE THREE-DIMENSIONAL VIEWS FROM THE SOLAR DYNAMICS
OBSERVATORY AND STEREO GUIDED BY MAGNETOHYDRODYNAMIC FLUX-ROPE
MODELING

Carolus J. Schrijver¹, Guillaume Aulanier², Alan M. Title¹, Etienne Pariat² and Cecile Delannée
E-print, June 2011, File; 2011 *ApJ* 738 167, File

HELIOSEISMIC RESPONSE TO THE X2.2 SOLAR FLARE OF 2011 FEBRUARY 15

A. G. Kosovichev

2011 *ApJ* 734 L15, File

The Alfvén Speed above a Sunspot, and Gamma-rays

H. Hudson, L. Fletcher

RHESSI Science Nugget, 12 Apr 2011

http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/The_Alfven_Speed_above_a_Sunspot,_and_Gamma-rays

First Sunquake of Solar Cycle 24 Observed by Solar Dynamics Observatory

Kosovichev A.

E-print, Feb 2011; prepared for RHESSI Science Nuggets

http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/First_Sunquake_of_Solar_Cycle_24_Observed_by_Solar_Dynamics_Observatory

15-18 Feb

Characteristics and Importance of "ICME-in-Sheath" Phenomenon and Upper Limit for
Geomagnetic Storm Activity

Ying D. Liu, Chong Chen, Xiaowei Zhao

ApJL 2020

<https://arxiv.org/pdf/2006.09699.pdf>

The Origin of Major Solar Activity - Collisional Shearing Between Nonconjugated Polarities of Multiple Bipoles Emerging Within Active Regions

Georgios Chintzoglou, [Jie Zhang](#), [Mark C. M. Cheung](#), [Maria Kazachenko](#)

ApJ 2018

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Forbush Decreases during the DeepMin and MiniMax of Solar Cycle 24

D. Lingri, H. Mavromichalaki, A. Belov, E. Eroshenko, V. Yanke, A. Abunin, M. Abunina

XXV European Cosmic Ray Symposium, Turin, Sept. 4-9 2016 2016

<https://arxiv.org/pdf/1612.08900v1.pdf>

Relationship of EUV Irradiance Coronal Dimming Slope and Depth to Coronal Mass Ejection Speed and Mass

James Paul Mason, Thomas N. Woods, David F. Webb, [Barbara J. Thompson](#), [Robin C. Colaninno](#), [Angelos Vourlidas](#)

ApJ 2016

<http://arxiv.org/pdf/1607.05284v1.pdf>

Solar Activity Parameters and Associated Forbush Decreases During the Minimum Between Cycles 23 and 24 and the Ascending Phase of Cycle 24

D. Lingri, H. Mavromichalaki, A. Belov, E. Eroshenko, V. Yanke, A. Abunin, M. Abunina

Solar Phys. 2016

CME propagation: Where does the solar wind drag take over?

Nishtha Sachdeva, Prasad Subramanian, Robin Colaninno, Angelos Vourlidas

ApJ 2015

<http://arxiv.org/pdf/1507.05199v1.pdf>

Quantitative Comparison of Methods for Predicting the Arrival of Coronal Mass Ejections at Earth based on multi-view imaging†

R. C. Colaninno*, A. Vourlidas, C. C. Wu

Journal of Geophysical Research: Space Physics, Nov 2013; File

<http://arxiv.org/pdf/1310.6680v2.pdf>

A Simultaneous Forbush Decrease Associated with an Earthward Coronal Mass Ejection Observed by STEREO

S. Y. Oh and Y. Yi

Solar Physics, 2012, DOI: 10.1007/s11207-012-0053-2, File

16 Feb– 01:46 M1.0 вспышка; **пересвет** на STEREO-A, $A=8^2/312=0,05$ **сомн., предел**

07:56 M1.1 вспышка; **пересвет** на STEREO-A, $A=10^2/312=0,06$

14:26 M1.6 вспышка; **пересвет** на STEREO-A, $A=18^2/312=0,12$

15:36 C7.7 вспышка; **пересвет** на STEREO-A, $A=8^2/312=0,051$

February 16:

Strongest coronal magnetic fields in solar cycles 23-24: probing, statistics, and implications

V. V. Fedenev, S. A. Anfinogentov, G. D. Fleishman

ApJ 2023

<https://arxiv.org/pdf/2301.08922.pdf>

A Spectroscopic Measurement of High Velocity Spray Plasma from an M-class Flare and Coronal Mass Ejection

[Peter R. Young](#)

Special issue "Progress in Solar Physics" of Adv. Sp. Research 2022

<https://arxiv.org/pdf/2204.09542.pdf>

Oscillations observed in Umbra, Plage, Quiet-Sun and the Polarity Inversion Line of Active Region 11158 using HMI/SDO Data

[A. A. Norton](#), [R. B. Stutz](#), [B. T. Welsch](#)

Philosophical Transactions of the Royal Society A, 2021, 379, 2190

<https://arxiv.org/pdf/2101.01349.pdf>

The Multi-Instrument (EVE-RHESSI) DEM for Solar Flares, and Implications for Non-Thermal Emission

[James M. McTiernan](#), [Amir Caspi](#), [Harry P. Warren](#)

ApJ 2018

<https://arxiv.org/pdf/1805.12285.pdf>

AWARE: An algorithm for the automated characterization of EUV waves in the solar atmosphere

[Jack Ireland](#), [Andrew R. Inglis](#), [Albert Y. Shih](#), [Steven Christe](#), [Stuart J. Mumford](#), [Laura A. Hayes](#), [Barbara J. Thompson](#), [V. Keith Hughitt](#)

Solar Phys. 2018

<https://arxiv.org/pdf/1804.07325.pdf>

Relationships Between Characteristics of the Line-of-Sight Magnetic Field and Solar Flare Forecasts

[Viacheslav M Sadykov](#), [Alexander G Kosovichev](#)

2017

<https://arxiv.org/pdf/1704.03423.pdf>

"Dandelion" Filament Eruption and Coronal Waves Associated with a Solar Flare on 2011 February 16

[Denis P. Cabezas](#), [Lurdes M. Martínez](#), [Yovanny J. Buleje](#), [Mutsumi Ishitsuka](#), [José K. Ishitsuka](#), [Satoshi Morita](#), [Ayumi Asai](#), [Satoru UeNo](#), [Takako T. Ishii](#), [Reizaburo Kitai](#), [Shinsuke Takasao](#), [Yusuke Yoshinaga](#), [Kenichi Otsuji](#), [Kazunari Shibata](#)

ApJ 2017

<https://arxiv.org/pdf/1701.00308v1.pdf>

Validation of a Scaling Law for the Coronal Magnetic Field Strengths and Loop Lengths of Solar and Stellar Flares

[Kosuke Namekata](#), [Takahito Sakaue](#), [Kyoko Watanabe](#), [Ayumi Asai](#), [Kazunari Shibata](#)

PASJ 2016

<https://arxiv.org/pdf/1610.09811v1.pdf>

Chromospheric evaporation flows and density changes deduced from Hinode/EIS during an M1.6 flare

[P. Gömöry](#), [A. M. Veronig](#), [Y. Su](#), [M. Temmer](#), [J. K. Thalmann](#)

A&A 2016

<http://arxiv.org/pdf/1602.02145v1.pdf>

Multiwavelength study of twenty jets emanating from the periphery of active regions

[Sargam M. Mulay](#), [Durgesh Tripathi](#), [Giulio Del Zanna](#), [Helen Mason](#)

A&A 2016

Evidence of a blast shock wave formation in a "CME-streamer" interaction

[V.G. Eselevicha](#), [M.V. Eselevicha](#), [V.M. Sadykov](#), [c.](#), [I.V. Zimovets](#)

Large-scale Globally Propagating Coronal Waves **Review**

Warmuth, Alexander

Living Reviews in Solar Physics, PUB.NO. lrsp-2015-3, 2015

<http://solarphysics.livingreviews.org/Articles/lrsp-2015-3/> File

Simultaneous Radio and EUV Imaging of a Multi-lane Coronal Type II Radio Burst

S. W. Feng, G. H. Du, Y. Chen, X. L. Kong, G. Li, F. Guo

Solar Phys. 2015

Spatially resolved observations of a coronal type II radio burst with multiple lanes

Zimovets I.V., Sadykov V.M.

Adv. Space Res. 2015

<http://www.sciencedirect.com/science/article/pii/S0273117715000939>

<http://dx.doi.org/10.1016/j.asr.2015.01.041>

Advances in Observing Various Coronal EUV Waves in the SDO Era and Their Seismological Applications (**Invited Review**)

Wei Liu, Leon Ofman

E-print, April 2014; Solar Physics (Topical Issue, "Exploring the Network of SDO Science")

http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf

The Magnetic Field of Active Region 11158 During the 2011 February 12-17 Flares : Differences between Photospheric Extrapolation and Coronal Forward-Fitting Methods

Aschwanden, M.J., Sun, X.D., and Liu, Y.

E-print, Feb 2014; ApJ

Alfvén Wave Solar Model (AWSoM): Coronal Heating

B. van der Holst, I. V. Sokolov, X. Meng, M. Jin, W. B. Manchester, IV, G. Tóth, and T. I. Gombosi

2014 ApJ 782 81

Solar Flare Impulsive Phase Emission Observed with SDO/EVE

Michael B. Kennedy¹, Ryan O. Milligan^{1,2,3}, Mihalis Mathioudakis¹, and Francis P. Keenan

2013 ApJ 779 84

<http://arxiv.org/abs/1310.4649>

THE RELATIONSHIP BETWEEN EXTREME ULTRAVIOLET NON-THERMAL LINE BROADENING AND HIGH-ENERGY PARTICLES DURING SOLAR FLARES

T. Kawate^{1,2} and S. Imada

2013 ApJ 775 122

<http://arxiv.org/pdf/1308.3415v1.pdf>

Magnetic Energy and Helicity Budgets in NOAA AR 11158

Kostas Tziotziou, Manolis K. Georgoulis, Yang Liu

E-print, June 2013; ApJ

Measuring the Magnetic Field Strength of the Quiet Solar Corona Using “EIT Waves”

D.M. Long, D.R. Williams, S.Regnier, L.K. Harra

E-print, May 2013; Solar Phys (2013) 288:567–583

Using EIS to measure the coronal magnetic field

David Long, David Williams, Stéphane Régnier, Louise Harra

EIS Nugget, May 2013

http://solarb.mssl.ucl.ac.uk/SolarB/nuggets/nugget_2013may.jsp

PROPERTIES OF A SOLAR FLARE KERNEL OBSERVED BY HINODE AND SDO
P. R. Young¹, G. A. Doschek², H. P. Warren², and H. Hara
2013 *ApJ* 766 127

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections
N. Gopalswamy, H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C. Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi,
N. V. Nitta, M. J. Aschwanden, D. P. Choudhary
E-print, Jan 2013; *Adv. Space Res.*

ANALYSIS AND MODELING OF TWO FLARE LOOPS OBSERVED BY AIA AND EIS
Y. Li^{1,2,3}, J. Qiu², and M. D. Ding
2012 *ApJ* 758 52

On the Nature and Genesis of EUV Waves: A Synthesis of Observations from SOHO, STEREO, SDO, and Hinode
Review
Spiros Patsourakos 1 _ Angelos Vourlidas
arXiv-print, 2012, File; *Solar Physics, Special Issue "The Sun in 360", 2012,*

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

SPECTROSCOPIC OBSERVATIONS OF A CORONAL MORETON WAVE
Louise K. Harra¹, Alphonse C. Sterling^{2,5}, Peter G?m?ry³ and Astrid Veronig
2011 *ApJ* 737 L4, File

16-20 Feb

The SEVAN Worldwide network of particle detectors: 10 years of operation
A. Chilingarian, V. Babayan, T. Karapetyan, B. Mailyan, B. Sargsyan, M. Zazyan
Advances in Space Research, Volume 61, Issue 10, 15 May 2018, Pages 2680-2696
<http://sci-hub.tw/10.1016/j.asr.2018.02.030>

16-23 Feb

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

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

17 Feb

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

17-18 Feb

The Source Locations of Major Flares and CMEs in the Emerging Active Regions
Lijuan Liu, Yuming Wang, Zhenjun Zhou, Jun Cui
ApJ 2021
<https://arxiv.org/pdf/2101.07452.pdf>

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

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

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

Ying D. Liu, [Chong Chen](#), [Xiaowei Zhao](#)
ApJL 2020
<https://arxiv.org/pdf/2006.09699.pdf>

Velocity Structure and Temperature Dependence of Extreme-Ultraviolet Jet Observed by Hinode
Toshiki [Kawai](#), [Natsuo Kanda](#), [Shinsuke Imada](#)
Solar Phys. 2019
<https://arxiv.org/pdf/1904.10271.pdf>

³He-rich Solar Energetic Particles from Sunspot Jets
Radoslav [Bučik](#)^{1,2}, Mark E. Wiedenbeck³, Glenn M. Mason⁴, Raúl Gómez-Herrero⁵, Nariaki V. Nitta⁶, and Linghua Wang⁷
2018 ApJL 869 L21
<sci-hub.tw/10.3847/2041-8213/aaf37f>
<https://arxiv.org/pdf/1812.07735.pdf>

Torsional Alfvén Wave Embedded ICME Magnetic Cloud and Corresponding Geomagnetic Storm
Anil N. [Raghav](#)¹, Ankita Kule¹, Ankush Bhaskar^{2,3}, Wageesh Mishra⁴, Geeta Vichare⁵, and Shobha Surve⁶
2018 ApJ 860 26 DOI [10.3847/1538-4357/aabba3](https://doi.org/10.3847/1538-4357/aabba3)

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

Forbush Decreases during the DeepMin and MiniMax of Solar Cycle 24
D. [Lingri](#), H. Mavromichalaki, A. Belov, E. Eroshenko, V. Yanke, A. Abunin, M. Abunina
XXV European Cosmic Ray Symposium, Turin, Sept. 4-9 2016 2016
<https://arxiv.org/pdf/1612.08900v1.pdf>

The radial speed-expansion speed relation for Earth-directed CMEs
P. [Mäkelä](#), N. Gopalswamy, S. Yashiro
Space Weather Volume 14, Issue 5 May 2016 Pages 368–378 File
<http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf>

Solar Activity Parameters and Associated Forbush Decreases During the Minimum Between Cycles 23 and 24 and the Ascending Phase of Cycle 24
D. Lingri, H. Mavromichalaki, A. Belov, E. Eroshenko, V. Yanke, A. Abunin, M. Abunina
Solar Phys. 2016

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

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

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

THE FIRST GROUND LEVEL ENHANCEMENT EVENT OF SOLAR CYCLE 24: DIRECT OBSERVATION OF SHOCK FORMATION AND PARTICLE RELEASE HEIGHTS
N. Gopalswamy¹, H. Xie^{1,2}, S. Akiyama^{1,2}, S. Yashiro^{1,2}, I. G. Usoskin³, and J. M. Davila
2013 *ApJ* 765 L30, preprint File

20 Feb

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

21 Feb

Unveiling Mass Transfer in Solar Flares: Insights from Elemental Abundance Evolutions Observed by Chang'E-2 Solar X-ray Monitor
Man-Hei Ng, Chi-Long Tang, Xiaoping Zhang, Kuan-Vai Tam, Peng-Fei Chen, Wudong Dong, Jing Li, Chi-Pui Tang
ApJ 2024
<https://arxiv.org/pdf/2407.02199>

23 Feb

The nonpotentiality of coronae of solar active regions, the dynamics of the surface magnetic field, and the potential for large flares
C.J. Schrijver
ApJ 2016
<http://arxiv.org/pdf/1602.07244v1.pdf>

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

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

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

Flare Accelerated Electrons in Kappa-Distribution from X-Ray Spectra with Warm-Target Model

Yingjie **Luo** (1), [Eduard P. Kontar](#) (1), [Debesh Bhattacharjee](#) (1)
ApJ 2024
<https://arxiv.org/pdf/2408.00213>

Resolved magnetohydrodynamic wave lensing in the solar corona

[Xinping Zhou](#), [Yuandeng Shen](#), [Ding Yuan](#), [Rony Keppens](#), [Xiaozhou Zhao](#), [Libo Fu](#), [Zehao Tang](#), [Jiaoyang Wang](#), [Chengrui Zhou](#)
Nature Communications 15, 3281 (2024)
<https://arxiv.org/pdf/2404.12044.pdf>

The physics of solar spectral imaging observations in dm-cm wavelengths and the application on space weather

Review

[Baolin Tan](#), [Yihua Yan](#), [Jing Huang](#), [Yin Zhang](#), [Chengming Tan](#), [Xiaoshuai Zhu](#)
Advance in Space Research, 2023
<https://arxiv.org/ftp/arxiv/papers/2311/2311.14360.pdf>

Turbulence in Sources of Decimetric Flare Continua

Marian **Karlický**
[Solar Physics](#) volume 298, Article number: 95 (2023)
<https://link.springer.com/content/pdf/10.1007/s11207-023-02188-5.pdf>

Partially Erupted Prominence Material as a Diagnostic of Coronal Mass Ejection Trajectory

[B. A. Hovis-Afflerbach](#), [B. J. Thompson](#), [E. I. Mason](#)
Space Weather [Volume21, Issue8](#) August 2023 e2022SW003256
<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2022SW003256>

Why "solar tsunamis" rarely leave their imprints in the chromosphere

Ruisheng **Zheng**, [Yihan Liu](#), [Wenlong Liu](#), [Bing Wang](#), [Zhenyong Hou](#), [Shiwei Feng](#), [Xiangliang Kong](#), [Zhenghua Huang](#), [Hongqiang Song](#), [Hui Tian](#), [Pengfei Chen](#), [Robertus Erdélyi](#), [Yao Chen](#)
ApJ 2023
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[Xinping Zhou](#), [Yuandeng Shen](#), [Ying D. Liu](#), [Huidong Hu](#), [Jiangtao Su](#), [Zehao Tang](#), [Chengrui Zhou](#), [Yadan Duan](#), [Song Tan](#)

ApJL 2022
<https://arxiv.org/pdf/2204.05603.pdf>

When do solar erupting hot magnetic flux ropes form?

[A. Nindos](#), [S. Patsourakos](#), [A. Vourlidas](#), [X. Cheng](#), [J. Zhang](#)
A&A 2020
<https://arxiv.org/pdf/2008.04380.pdf>

Magnetic Field, Electron Density and Their Spatial Scales in Zebra Pattern Radio Sources

[L. V. Yasnov](#) & [M. Karlický](#)
[Solar Physics](#) volume 295, Article number: 96 (2020)
<https://link.springer.com/content/pdf/10.1007/s11207-020-01652-w.pdf>

Development of a Fast CME and Properties of a Related Interplanetary Transient

V. V. [Grechnev](#), A. A. [Kochanov](#), A. M. [Uralov](#), V. A. [Slemzin](#), D. G. [Rodkin](#), F. F. [Goryaev](#), V. I. [Kiselev](#), I. I. [Myshyakov](#)
[Solar Physics](#) October 2019, 294:139
<https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1529-0.pdf>

Burst locating capability of the Korean Solar Radio Burst Locator (KSRBL)

J-E Hwangbo, [Su-Chan Bong](#), Show all 7 authors, [Young-Deuk Park](#)
Journal of Astronomy and Space Science 32(1):91-99, 2015
https://www.researchgate.net/publication/275227108_Burst_locating_capability_of_the_Korean_Solar_Radio_Burst_Locator_KSRBL

Powerful solar flares in [September 2017](#). Comparison with the largest flares in cycle 24
E. A. [Bruevich](#), [V. V. Bruevich](#)
2018
<https://arxiv.org/pdf/1807.01271.pdf>

Spatially inhomogeneous acceleration of electrons in solar flares
Duncan J. [Stackhouse](#), [Eduard P. Kontar](#)
A&A 2018
<https://arxiv.org/pdf/1801.04743.pdf>

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

В. Гречнев, С. Калашников, А. Уралов, Степанов_конф. 2013. Постер
[Grechnev, Stepanov_conf_13, Presentation](#)
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[Grechnev, NOBE-12, Presentation](#)
[Grechnev, FIAN-11, Presentation](#)

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

Dynamics of flare processes and variety of the fine structure of solar radio emission over a wide frequency range of 30 - 7000 MHz
Gennady [Chernov](#), Valery Fomichev, Baolin Tan, Yihua Yan, Chengming Tan, Qijun Fu
Solar Phys., 2014
<http://arxiv.org/pdf/1409.0660v1.pdf>

Well-observed Dynamics of Flaring and Peripheral Coronal Magnetic Loops during an M-class Limb Flare
Jinhua [Shen](#)¹, Tuanhui Zhou^{2,3}, Haisheng Ji^{2,3}, Thomas Wiegmann⁴, Bernd Inhester⁴, and Li Feng
2014 ApJ 791 83

Statistical survey of widely spread out solar electron events observed with STEREO and ACE with special attention to anisotropies
N. Dresing, R. Gomez-Herrero, B. Heber, A. Klassen, O. Malandraki, W. Dröge, and Y. Kartavykh
E-print, July 2014; A&A, Volume 567, A27, July 2014; File

Advances in Observing Various Coronal EUV Waves in the SDO Era and Their Seismological Applications (**Invited Review**)
Wei Liu, Leon Ofman
E-print, April 2014; Solar Physics (Topical Issue, "Exploring the Network of SDO Science")
http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf

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

RHESSI Heliophysics Senior **Review** 2013
Samuel Krucker, Brian Dennis, Manfred Bester, Laura Peticolas
http://hesperia.gsfc.nasa.gov/senior_review/2013/senior_review_proposal_2013.pdf, 2013, File

THE KELVIN-HELMHOLTZ INSTABILITY AT CORONAL MASS EJECTION BOUNDARIES IN THE SOLAR CORONA: OBSERVATIONS AND 2.5D MHD SIMULATIONS
U. V. Möstl, M. Temmer, and A. M. Veronig
2013 ApJ 766 L12

Too few? Too many?
Simoes, P. J. A. and Kontar, E. P.
RHESSI Science Nugget, No. 200, 2013
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Too_few%3F_Too_many%3F

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

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

THE HEIGHT OF A WHITE-LIGHT FLARE AND ITS HARD X-RAY SOURCES
Juan-Carlos Martínez-Oliveros¹, Hugh S. Hudson^{1,2}, Gordon J. Hurford^{1,3}, Säm Krucker^{1,3}, R. P. Lin^{1,4,5}, Charles Lindsey⁶, Sebastien Couvidat⁷, Jesper Schou⁷, and W. T. Thompson
2012 ApJ 753 L26

INITIATION OF CORONAL MASS EJECTION AND ASSOCIATED FLARE CAUSED BY HELICAL KINK INSTABILITY OBSERVED BY SDO/AIA
Pankaj Kumar, K.-S. Cho^{1,2,3}, S.-C. Bong¹, Sung-Hong Park¹ and Y. H. Kim
2012 ApJ 746 67, File

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

A Flare in 3D
Hugh Hudson and Juan Carlos Martinez Oliveros
RHESSI Science Nugget, No. 160, Oct, 2011
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/A_Flare_in_3D

EVE/ESP and the Neupert Effect
H. Hudson
RHESSI Science Nugget, 9 May 2011
http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/EVE/ESP_and_the_Neupert_Effect

24-26 Feb

Identification of Hot Plasma Anomalies in Solar Wind Using Fe Ion Charge Distributions
Farid F. Goryaev, Vladimir Slemzin, and Denis Rodkin
2020 *ApJL* **905** L17
<https://doi.org/10.3847/2041-8213/abcc76>
<https://doi.org/10.3847/2041-8213/abcc76>

25 Feb

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

February 26:

Multi-viewpoint Coronal Mass Ejection Catalog Based on STEREO COR2 Observations
Angelos Vourlidas^{1,4}, Laura A. Balmaceda^{2,5,6}, Guillermo Stenborg³, and Alisson Dal Lago²
2017 *ApJ* **838** 141 File
<http://sci-hub.cc/10.3847/1538-4357/aa67f0>

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

27 Feb

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

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

Feb 28

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

ВОЗМОЖНОСТЬ ГЕНЕРАЦИИ УДАРНОЙ ВОЛНЫ В КОРОНЕ СОЛНЦА ПРИ
ОТСУТСТВИИ КОРОНАЛЬНОГО ВЫБРОСА МАССЫ

ЕСЕЛЕВИЧ В.Г.✉1, ЕСЕЛЕВИЧ М.В.1, ЗИМОВЕЦ И.В.2,3,4, ШАРЫКИН И.Н.
АЖ Том: 94Номер: 9 Год: 2017 Страницы: 793-807

A Type II Radio Burst without a Coronal Mass Ejection

W. Su, X. Cheng, M. D. Ding, P. F. Chen, J.Q. Sun

ApJ 2015

<http://arxiv.org/pdf/1503.00861v1.pdf>

Real-time solar wind prediction based on SDO/AIA coronal hole data

T. Rotter (1), A.M. Veronig (1), M. Temmer (1), B. Vrsnak

Solar Phys. 2015

<http://arxiv.org/pdf/1501.06697v1.pdf>

Coronal Cavity Survey: Morphological Clues to Eruptive Magnetic Topologies

B. C. Forland, S. E. Gibson, J. B. Dove, L. A. Rachmeler, Y. Fan

Solar Phys (2013) 288:603–615

Feb-March 2011 (CR 2107)

Tuning the Exo-Space Weather Radio for Stellar Coronal Mass Ejections

Julián D. Alvarado-Gómez (1 and 2), [Jeremy J. Drake](#) (2), [Federico Fraschetti](#) (2 and 3), [Cecilia Garraffo](#) (2 and 4), [Ofar Cohen](#) (5), [Christian Vocks](#) (1), [Katja Poppenhäger](#) (1), [Sofia P. Moschou](#) (2), [Rakesh K. Yadav](#) (6), [Ward B. Manchester IV](#) (7)

ApJ 2020

<https://arxiv.org/pdf/2004.05379.pdf>

March 2011 AR 11166

High-Speed Solar Wind Streams and Geomagnetic Storms During Solar Cycle 24

M. Gerontidou, H. Mavromichalaki, T. Daglis

[Solar Physics](#) September 2018, 293:131

<https://link.springer.com/article/10.1007/s11207-018-1348-8>

Dynamics of Microwave Sources Associated with the Neutral Line and the Magnetic-Field Parameters of Sunspots as a Factor in Predicting Large Flares

V. E. Abramov-Maximov, V. N. Borovik, L. V. Opeikina, A. G. Tlatov

Solar Phys., 2014

March 1 – хорошая геобуря от КД

March 1, 02-05 UT: C6.0 LDE вспышка с приличной эрупцией и корональной волной.

- Определены контуры диммингов и аркад по SDO/AIA, 193A

- Сопоставлены площадки диммингов и аркад по файлам SOHO/EIT, 195 A и SDO/AIA, 193A с 12-часовым интервалом.

Multiwavelength study of twenty jets emanating from the periphery of active regions

Sargam M. Mulay, Durgesh Tripathi, Giulio Del Zanna, Helen Mason

A&A 2016

Advances in Observing Various Coronal EUV Waves in the SDO Era and Their Seismological Applications (Invited Review)

Wei Liu, Leon Ofman

E-print, April 2014; Solar Physics (Topical Issue, "Exploring the Network of SDO Science")
http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf

An extreme ultraviolet wave associated with a failed eruption observed by the Solar Dynamics Observatory★

R. Zheng, Y. Jiang, J. Yang, Y. Bi, J. Hong, B. Yang and D. Yang
A&A 541, A49 (2012), File

1-2 March

Inflows in the Inner White-light Corona: The Closing-down of Flux after Coronal Mass Ejections

P. Hess and Y.-M. Wang

2017 ApJ 850 6

<http://sci-hub.cc/10.3847/1538-4357/aa921d>

2 Mar

Is There a Dynamic Difference between Stealthy and Standard Coronal Mass Ejections?

Beili Ying¹, Alessandro Bemporad^{2,1}, Li Feng^{1,3}, Nariaki V. Nitta⁴, and Weiqun Gan^{1,3}

2023 ApJ 942 3

<https://iopscience.iop.org/article/10.3847/1538-4357/aca52c/pdf>

Distinguishing between Flaring and Non-Flaring Active Regions: A Machine Learning Perspective

Soumitra Hazra, Gopal Sardar, Partha Choudhuri

A&A 2020

<https://arxiv.org/pdf/2003.03878.pdf>

2-14 Mar

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>

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

See

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

Investigating Remote-sensing Techniques to Reveal Stealth Coronal Mass Ejections

Erika Palmerio, Nariaki V. Nitta, Tamitha Mulligan, Marilena Mierla, Jennifer O'Kane, Ian G. Richardson, Suvadip Sinha, Nandita Srivastava, Stephanie L. Yardley, Andrei N. Zhukov

Frontiers in Astronomy and Space Sciences 2021

<https://arxiv.org/pdf/2106.07571.pdf>

The Magnetic Environment of a Stealth Coronal Mass Ejection

Jennifer O'Kane, Cecilia Mac Cormack, Cristina H. Mandrini, Pascal Démoulin, Lucie M. Green, David M. Long, Gherardo Valori

ApJ 2020

<https://arxiv.org/pdf/2012.03757.pdf>

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation

Nishtha Sachdeva

Ph.D. Thesis 2019

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

Stealth Coronal Mass Ejections from Active Regions

Jennifer O'kane, Lucie Green, David M. Long, Hamish Reid

ApJ Volume 882, Issue 2, article id. 85, 2019

<https://arxiv.org/pdf/1907.12820.pdf>

Source Region of the Decameter–Hectometric Type II Radio Burst: Shock–Streamer Interaction Region

Chenglong Shen¹, Chijian Liao¹, Yuming Wang¹, Pinzhong Ye¹ and Shui Wang

Solar Physics, 2012, doi [10.1007/s11207-012-0161-z](https://doi.org/10.1007/s11207-012-0161-z), File

Coronal Mass Ejections from Magnetic Systems Encompassing Filament Channels Without Filaments

Alexei A. Pevtsov, Olga Panasenco and Sara F. Martin

Solar Physics, Volume 277, Number 1, 185-201, 2012, File

3-6 March

Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures

Nariaki V. Nitta, Tamitha Mulligan

Solar Physics September 2017, 292:125 File

5 March

Improved AI-generated Solar Farside Magnetograms by STEREO and SDO Data Sets and Their Release

Hyun-Jin Jeong¹, Yong-Jae Moon^{1,2}, Eunsu Park³, Harim Lee², and Ji-Hye Baek^{3,4}

2022 **ApJS** 262 50

<https://iopscience.iop.org/article/10.3847/1538-4365/ac8d66/pdf>

Investigation of the Moving Structures in a Coronal Bright Point

Zongjun Ning^{1,2} and Yang Guo

2014 **ApJ** 794 79

5-10 Mar

Sunspot Rotation in High- and Low-Flaring Active Regions

Richard Grimes & Balázs Pintér

Solar Physics volume 297, Article number: 109 (2022)

<https://link.springer.com/content/pdf/10.1007/s11207-022-02040-2.pdf>

6 March – 09:58, C3.1 ; **непечвет** на STEREO-A $A=8^{\circ}2/314=0.051$

10:36, C7.5 ; **непечвет** на STEREO-A $A=12^{\circ}2/314=0.076$

14:43, C8.6 ; **непечвет** на STEREO-A $A=23^{\circ}2/314=0.146$

6 March

Evaluating (and Improving) Estimates of the Solar Radial Magnetic Field Component from Line-of-Sight Magnetograms

K.D. Leka, G. Barnes, E. L. Wagner

Solar Phys. 2017

<https://arxiv.org/pdf/1701.04836v1.pdf>

Particle Acceleration in Plasmoid Ejections Derived from Radio Drifting Pulsating Structures

N. Nishizuka¹, M. Karlický², M. Janvier³, and M. Bárta

2015 ApJ 799 126

<http://arxiv.org/pdf/1412.7904v1.pdf>

6-11 March

Comparative case study of two methods to assess the eruptive potential of selected active regions

[Francesca Zuccarello](#)¹, [Iaria Ermolli](#), [Marianna B. Korsos](#), [Fabrizio Giorgi](#), [Salvo L.](#)

[Guglielmino](#), [Robertus Erdelyi](#), [Paolo Romano](#)

Research in Astronomy and Astrophysics 2021

<https://arxiv.org/pdf/2110.01272.pdf>

ON THE INJECTION OF HELICITY BY THE SHEARING MOTION OF FLUXES IN RELATION TO FLARES AND CORONAL MASS EJECTIONS

P. Vemareddy¹, A. Ambastha¹, R. A. Maurya², and J. Chae

2012 ApJ 761 86

7 March – 05:11, M1.2 ; **пересвет** на STEREO-A $A=12^2/314=0.08$

07:53– M1.5 вспышка; **пересвет** на STEREO-A, $A=47^2/314=0.30$

08:06 – M1.4 **пересвет** на STEREO-A $A=20.5^2/314=0.08=0.13$

09:21 – M1.8 **пересвет** на STEREO-A $A=8^2/314=0.05$ Сомнительный?

10:18, C4.9 ; **пересвет** на STEREO-A $A=11^2/314=0.07$

14:56 –M1.9 **пересвет** на STEREO-B $B=14^2/296=0.09$

20:00 –M3.7 **пересвет** на STEREO-A $A=43^2/314=0.27$

March 7: значительная активность

14:30 – SDO - заметная северо-центральная эрупция и M1.9 вспышка в АО 1166 (N10E18),

CME; STEREO-B - хорошо видна на NW лимбе с существенным CME.

20:12 – SDO – значительная NW-лимб эрупция с мощным выбросом и M3.7 вспышка

в АО 1164 (N23W~70), мощный CME; Хорошо видно на STEREO-A с

глобальной корональной волной. Протонное возрастание. **Prolonged gamma**

A coronal mass ejection (CME) exploded from the vicinity of sunspot 1164 during the late hours of March 7th. It leapt away from the sun traveling ~2200 km/s, making it the fastest CME since Sept. 2005.

Simulation of solar energetic particle events originated from coronal mass ejection shocks with a data-driven physics-based transport model

Lei Cheng, [Ming Zhang](#), [Ryun Young Kwon](#), [David Lario](#)

ApJ 2024

<https://arxiv.org/pdf/2411.04095>

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

Y.LIU, T.TO'RO'K, V.S.TITOV, J.E.LEAKE, X.SUN (孙旭东), M.JIN

ApJ 2023

http://sun.stanford.edu/~yliu/papers/neutralization_finalVersion.pdf

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

Сборник трудов XXVI Всероссийской ежегодной конференции по физике Солнца «Солнце и солнечно-земная физика – 2022» ГАО РАН.

<http://www.gaoran.ru/russian/solphys/2022/book/conf2022.pdf>

Investigating pre-eruptive magnetic properties at the footprints of erupting magnetic flux ropes
[Wensi Wang](#), [Jiong Qiu](#), [Rui Liu](#), [Chunming Zhu](#), [Kai E Yang](#), [Qiang Hu](#), [Yuming Wang](#)
ApJ 2022
<https://arxiv.org/pdf/2211.15909.pdf>

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

A Time-dependent Self-similar Reconstruction of Solar Coronal Mass Ejections Based on the Gibson–Low Model
Xinghua Dai¹
2022 ApJ 925 24
<https://iopscience.iop.org/article/10.3847/1538-4357/ac3eda/pdf>

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

СВЯЗЬ МЕЖДУ ДЛИТЕЛЬНОСТЬЮ И ВЕЛИЧИНОЙ УСКОРЕНИЯ КОРОНАЛЬНЫХ ВЫБРОСОВ МАССЫ
Струминский А. Б., Григорьева И. Ю., Логачев Ю. И., Садовский А. М.
ГЕОМАГНЕТИЗМ И АЭРОНОМИЯ Том: 61Номер: 6 Год: 2021 Страницы: 683-693
DOI: 10.31857/S001679402105014X

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

НЕКОТОРЫЕ ОСОБЕННОСТИ СОЛНЕЧНЫХ ПРОТОННЫХ СОБЫТИЙ 7.ИИ.2011
И 20.ИИ.2014

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

The Common Origin of High-energy Protons in Solar Energetic Particle Events and Sustained Gamma-ray Emission from the Sun
N. Gopalswamy, [S. Yashiro](#), [P. Makela](#), [H. Xie](#), [S. Akiyama](#)
ApJ 2021
<https://arxiv.org/ftp/arxiv/papers/2105/2105.01206.pdf>

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

An Observational Revisit of Stationary Type IV Solar Radio Bursts
[Maoshui Lv](#), [Yao Chen](#), [V. Vasanth](#), [Mohd Shazwan Radzi](#), [Zamri Zainal Abidin](#) & [Christian Monstein](#)
Solar Physics volume 296, Article number: 38 (2021)

<https://link.springer.com/content/pdf/10.1007/s11207-021-01769-6.pdf>

Earth-affecting Solar Transients: A **Review** of Progresses in Solar Cycle 24

Jie Zhang, [Manuela Temmer](#), [Nat Gopalswamy](#), [Olga Malandraki](#), [Nariaki V. Nitta](#), [Spiros Patsourakos](#), [Fang Shen](#), [Bojan Vršnak](#), [Yuming Wang](#), [David Webb](#), [Mihir I. Desai](#), [Karin Dissauer](#), [Nina Dresing](#), [Mateja Dumbović](#), [Xueshang Feng](#), [Stephan G. Heinemann](#), [Monica Laurenza](#), [Noé Lugaz](#), [Bin Zhuang](#)

<https://arxiv.org/ftp/arxiv/papers/2012/2012.06116.pdf> File 2021

2020 <https://arxiv.org/abs/2012.06116>

Energetic Proton Back-Precipitation onto the Solar Atmosphere in Relation to Long-Duration Gamma-Ray Flares

Adam Hutchinson, [Silvia Dalla](#), [Timo Laitinen](#), [Georgia A. de Nolfo](#), [Alessandro Bruno](#), [James M. Ryan](#)

ApJ 2020

<https://arxiv.org/pdf/2012.05146.pdf> File

Small Size Ground Level Enhancements During Solar Cycle 24

Leonty I. Miroshnichenko, [Chuan Li](#) & [Victor G. Yanke](#)

Solar Physics volume 295, Article number: 102 (2020)

<https://link.springer.com/content/pdf/10.1007/s11207-020-01659-3.pdf>

What determine Solar Flares Producing Interplanetary Type III Radio Bursts?

Y. K. Kou, **Z. C. Jing**, **X. Cheng**, **W. Q. Pan**, **Y. Liu**, **C. Li**, **M. D. Ding**

ApJL 2020

<https://arxiv.org/pdf/2007.03852.pdf>

Fermi Large Area Telescope observations of solar flares during the 24th solar cycle

Melissa Pesce-Rollins

Presentation at the **Fleishman Webinar Nov. 13, 2019**

http://www.ioffe.ru/LEA/SF_AR/files/FermiLATSolarFlares_webinar.pdf

Finding the critical decay index in solar prominence eruptions

N. Vasantharaju, **P. Vemareddy**, **B. Ravindra**, **V. H. Doddamani**

ApJ 2019

<https://arxiv.org/pdf/1909.10442.pdf>

On the Shock Source of Sustained Gamma-Ray Emission from the Sun

N Gopalswamy, [P. Makela](#), [S. Yashiro](#), [A. Lara](#), [S. Akiyama](#), [H. Xie](#)

18th International Astrophysics Conference, Pasadena, CA, February 18 to 22, 2019

2019

<https://arxiv.org/ftp/arxiv/papers/1907/1907.13318.pdf> File

Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles

G. A. de Nolfo, **A. Bruno**, **J. M. Ryan**, **S. Dalla**, **J. Giacalone**, **I. G. Richardson**, **E. R. Christian**, **S. J. Stochaj**, **G. A. Bazilevskaya**, **M. Boezio**, **M. Martucci**, **V. V. Mikhailov**, **R. Munini**

ApJ 2019

<https://arxiv.org/pdf/1905.12878.pdf> File

Simulating Solar Coronal Mass Ejections constrained by Observations of their Speed and Poloidal flux

Talwinder Singh, [Mehmet Sarp Yalim](#), [Nikolai Pogorelov](#), [Nat Gopalswamy](#)

2019

<https://arxiv.org/pdf/1904.00140.pdf>

Interplanetary Type II Radio Bursts from Wind/WAVES and Sustained Gamma-Ray Emission from Fermi/LAT: Evidence for Shock Source

Nat [Gopalswamy](#)¹, [Pertti Mäkelä](#)^{1,2}, [Seiji Yashiro](#)^{1,2}, [Alejandro Lara](#)^{1,2}, [Hong Xie](#)^{1,2}, [Sachiko Akiyama](#)^{1,2}, and [Robert J. MacDowall](#)¹

2018 *ApJL* 868 L19

<http://iopscience.iop.org/article/10.3847/2041-8213/aaef36/pdf> File

Synthetic Radio Imaging for Quiescent and CME-flare Scenarios

[Sofia-Paraskevi Moschou](#) (1), [Igor Sokolov](#) (2), [Ofar Cohen](#) (3), [Jeremy J. Drake](#) (1), [Dmitry Borovikoy](#) (4), [Justin C. Kasper](#) (2), [Julian D. Alvarado-Gomez](#) (1), [Cecilia Garraffo](#)

ApJ 2018

<https://arxiv.org/pdf/1809.09750.pdf>

Extended MHD modeling of the steady solar corona and the solar wind

Review

[Tamas I. Gombosi](#), [Bart van der Holst](#), [Ward B. Manchester](#), [Igor V. Sokolov](#)

Living Reviews in Solar Physics December 2018, 15:4

<https://link.springer.com/content/pdf/10.1007%2Fs41116-018-0014-4.pdf>

<https://arxiv.org/pdf/1807.00417.pdf>

A Statistical Study to Determine the Origin of Long-Duration Gamma-ray Flares

[Lisa M. Winter](#), [Valerie Bernstein](#), [Nicola Omodei](#), [Melissa Pesce-Rollins](#)

ApJ 2018

<https://arxiv.org/pdf/1807.06001.pdf> File

X-Ray, Radio and SEP Observations of Relativistic Gamma-Ray Events

Review

[Karl-Ludwig Klein](#), [Kostas Tziotziou](#), [Pietro Zucca](#), [Eino Valtonen](#), [Nicole Vilmer](#), [Olga E. Malandraki](#), [Clarisse Hamadache](#), [Bernd Heber](#), and [Jürgen Kiener](#)

In: [O.E. Malandraki](#), [N.B. Crosby](#) (eds.), *Solar Particle Radiation Storms Forecasting and Analysis Chapter 8*, 2018

<https://link.springer.com/content/pdf/10.1007%2F978-3-319-60051-2.pdf>

File [Malandraki_Crosby_SEPs_Forecasting and Analysis_Book.pdf](#)

The density compression ratio of shock fronts associated with coronal mass ejections

[Ryun-Young Kwon](#), [Angelos Vourlidas](#)

Journal of Space Weather and Space Climate 2018

<https://arxiv.org/pdf/1801.04355.pdf>

Analysis of Solar Gamma Rays and Solar Neutrons detected on March 7th and September 25th of 2011 by Ground Level Neutron Telescopes, SEDA-FIB and FERMI-LAT

[Y. Muraki](#), [J.V. Galicia](#), [X. Gonzalez](#), [K. Kamiya](#), [Y. Katayose](#), [K. Koga](#), [H. Matsumoto](#), [S. Masuda](#), [Y. Matsubara](#), [Y. Nagai](#), [M. Ohnishi](#), [S. Ozawa](#), [T. Sako](#), [S. Shibata](#), [M. Takita](#), [Y. Tanaka](#), [H. Tsuchiya](#), [K. Watanabe](#) and [J. Zhang](#)

Proc. of 35th International Cosmic Ray Conference — ICRC2017 10–20 July, 2017 Bexco, Busan, Korea

<https://pos.sissa.it/301/136/pdf>

Characteristics of Sustained >100 γ -ray Emission Associated with Solar Flares

[G. H. Share](#), [R. J. Murphy](#), [A. K. Tolbert](#), [B. R. Dennis](#), [S. M. White](#), [R. A. Schwartz](#), and [A. J. Tylka](#)

ApJ Supplement 2017

http://www.astro.umd.edu/~share/publications/share_2017.pdf File

Origin of Radio Enhancements in Type II Bursts in the Outer Corona

[Firas Al-Hamadani](#), [Silja Pohjolainen](#), [Eino Valtonen](#)

Solar Physics September 2017, 292:127

<https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1148-6.pdf>

Investigating the Wave Nature of the Outer Envelope of Halo Coronal Mass Ejections

Ryun-Young Kwon^{1,3} and Angelos Vourlidas²

2017 ApJ 836 246

<http://sci-hub.cc/doi/10.3847/1538-4357/aa5b92>

Chromosphere to 1 AU Simulation of the 2011 March 7th Event: A Comprehensive Study of Coronal Mass Ejection Propagation

M. Jin, W. B. Manchester, B. van der Holst, I. Sokolov, G. Toth, A. Vourlidas, C. A. de Koning, T. I. Gombosi

ApJ 2016

<https://arxiv.org/pdf/1611.08897v1.pdf>

Doppler speeds of the hydrogen Lyman lines in solar flares from EVE

Stephen A Brown, Lyndsay Fletcher, Nicolas Labrosse

A&A 2016

<https://arxiv.org/pdf/1610.04007v1.pdf>

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS.

I. THE CASE FOR BLAST WAVES

T. A. Howard¹ and V. J. Pizzo

2016 ApJ 824 92 File

EUV Irradiance Observations from SDO/EVE as a Diagnostic of Solar Flares

Ryan O. Milligan

Conference proceedings for the symposium on "Solar and Stellar Flares and their Effects on the Planets" at the IAU General Assembly in Honolulu, HI, August 2015

<http://arxiv.org/pdf/1604.07793v1.pdf>

Multiwavelength study of twenty jets emanating from the periphery of active regions

Sargam M. Mulay, Durgesh Tripathi, Giulio Del Zanna, Helen Mason

A&A 2016

Is flux rope a necessary condition for the progenitor of coronal mass ejections?

Y. Ouyang, K. Yang, P. F. Chen

ApJ 2015

<http://arxiv.org/pdf/1511.01605v1.pdf>

Study of Solar Energetic Particle Associations with Coronal Extreme-ultraviolet Waves

Jinhye Park¹, D. E. Innes², R. Bucik^{2,3}, Y.-J. Moon^{1,4}, and S. W. Kahler

2015 ApJ 808 3

See presentation

https://community.apan.org/cfs-file.ashx/_key/telligent-evolution-components-attachments/13-7784-00-00-00-14-46-02/Park.pdf

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations

A. Nindos, S. Patsourakos, A. Vourlidas, C. Tagikas

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<http://arxiv.org/pdf/1507.03766v1.pdf>

Observation of solar high energy gamma and X-ray emission and solar energetic particles

Alexei Struminsky, Weiqun Gan

24th European Cosmic Ray Symposium, Kiel, September 2014, 2015

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

Harim Lee¹, Y.-J. Moon¹, and V. M. Nakariakov

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RHESSI Heliophysics Senior **Review** 2015

High Energy Solar Spectroscopic Imager

Samuel Krucker, Brian Dennis, Albert Shih, Manfred Bester

http://hesperia.gsfc.nasa.gov/senior_review/2015/senior_review_proposal_2015.pdf

Dynamics of Microwave Sources Associated with the Neutral Line and the Magnetic-Field Parameters of Sunspots as a Factor in Predicting Large Flares

V. E. Abramov-Maximov, V. N. Borovik, L. V. Opeikina, A. G. Tlatov

Solar Phys., 2014

The Relation Between Large-Scale Coronal Propagating Fronts and Type II Radio Bursts

Nariaki V. Nitta, Wei Liu, Nat Gopalswamy, Seiji Yashiro

Solar Phys., 2014

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<http://arxiv.org/pdf/1409.4754v1.pdf> File

Solar Cosmic Rays, Neutrons, and Fermi Gamma-Rays,

Hugh Hudson and Alec MacKinnon

RHESSI Science Nuggets, No. 227, May, 2014:

http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Solar_Cosmic_Rays,_Neutrons,_and_Fermi_Gamma-Rays

> 25 MeV Proton Events Observed by the High Energy Telescopes on the STEREO A and B Spacecraft and/or at Earth During the First ~ Seven Years of the STEREO Mission

I. G. Richardson, T. T. von Rosenvinge, H. V. Cane, E. R. Christian, C. M. S. Cohen, A. W.

Labrador, R. A. Leske, R. A. Mewaldt, M. E. Wiedenbeck, E. C. Stone

Solar Phys., 2014, File

Forecasting propagation and evolution of CMEs in an operational setting: What has been learned

Yihua Zheng, Peter Macneice, Dusan Odstrcil, M. L. Mays, Lutz Rastaetter, Antti Pulkkinen,

Aleksandre Taktakishvili, Michael Hesse, M. Masha Kuznetsova, Hyesook Lee and Anna Chulaki

Space Weather, Volume 11, Issue 10, pages 557–574, October 2013

<http://www.readcube.com/articles/10.1002/swe.20096?>

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study†

H. Xie, O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades

JGR, 2013, File

NUMERICAL SIMULATIONS OF CORONAL MASS EJECTION ON 2011 MARCH 7: ONE-TEMPERATURE AND TWO-TEMPERATURE MODEL COMPARISON

M. Jin¹, W. B. Manchester¹, B. van der Holst¹, R. Oran¹, I. Sokolov¹, G. Toth¹, Y. Liu², X. D. Sun², and T. I. Gombosi

2013 *ApJ* 773 50

SoFAST: Automated Flare Detection with the PROBA2/SWAP EUV Imager

K. Bonte, D. Berghmans, A. De Groof, K. Steed, S. Poedts

Solar Physics, August 2013, Volume 286, Issue 1, pp 185-199

Observations of intensity oscillations in a prominence-like cool loop system as observed by SDO/AIA: evidence of multiple harmonics of fast magnetoacoustic waves

Srivastava, A. K.; Dwivedi, B. N.; Kumar, Mukul

Astrophysics and Space Science, Volume 345, Issue 1, pp.25-32, 2013

Measurement by FIB on the ISS: Two Emissions of Solar Neutrons Detected?

Y. Muraki¹, K. Koga², T. Goka^{2,3}, H. Matsumoto², T. Obara^{2,4}, O. Okudaira², S. Shibata⁵ and T. Yamamoto

Advances in Astronomy, Volume 2012 (2012), Article ID 379304, 14 pages

<http://www.hindawi.com/journals/aa/2012/379304/>

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES

M. Ackermann², M. Ajello³, A. Albert⁴, A. Allafort^{5,1}, L. Baldini⁶, G. Barbiellini^{7,8}, D. Bastieri et al.

Fermi-LAT collaboration

E-print, April 2013, File; ApJ

THE HEIGHT EVOLUTION OF THE "TRUE" CORONAL MASS EJECTION MASS DERIVED FROM STEREO COR1 AND COR2 OBSERVATIONS

B. M. Bein¹, M. Temmer¹, A. Vourlidas², A. M. Veronig¹, and D. Utz

2013 ApJ 768 31; File

Source Region of the Decameter–Hectometric Type II Radio Burst: Shock–Streamer Interaction Region

Chenglong Shen¹, Chijian Liao¹, Yuming Wang¹, Pinzhong Ye¹ and Shui Wang

Solar Physics, February 2013, Volume 282, Issue 2, pp 543-552, File

THE DRIVER OF CORONAL MASS EJECTIONS IN THE LOW CORONA: A FLUX ROPE

X. Cheng^{1,2,3}, J. Zhang², M. D. Ding^{1,3}, Y. Liu^{4,5}, and W. Poomvises

2013 ApJ 763 43

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections

N. Gopalswamy, H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C. Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi, N. V. Nitta, M. J. Aschwanden, D. P. Choudhary

E-print, Jan 2013; Adv. Space Res.

DIFFERENTIAL EMISSION MEASURE ANALYSIS OF MULTIPLE STRUCTURAL COMPONENTS OF CORONAL MASS EJECTIONS IN THE INNER CORONA

X. Cheng^{1,2,3}, J. Zhang², S. H. Saar⁴, and M. D. Ding

2012 ApJ 761 62

A CORONAL HOLE'S EFFECTS ON CORONAL MASS EJECTION SHOCK MORPHOLOGY IN THE INNER HELIOSPHERE

B. E. Wood¹, C.-C. Wu¹, A. P. Rouillard^{2,3}, R. A. Howard¹, and D. G. Socker

2012 ApJ 755 43

7-10-12 Mar

Deep-learning Reconstruction of Sunspot Vector Magnetic Fields for Forecasting Solar Storms

Dattaraj B. Dhuri^{1,2}, Shamik Bhattacharjee¹, Shravan M. Hanasoge^{1,2}, and Sashi Kiran Mahapatra¹

2022 ApJ 939 64

<https://iopscience.iop.org/article/10.3847/1538-4357/ac9413/pdf>

Effects of Cowling Resistivity in the Weakly-Ionized Chromosphere

[Mehmet Sarp Yalim](#), [Avijet Prasad](#), [Nikolai Pogorelov](#), [Gary Zank](#), [Qiang Hu](#)

ApJL 2020

<https://arxiv.org/pdf/2007.12275.pdf>

A data-driven MHD model of the weakly-ionized chromosphere

[Mehmet Sarp Yalim](#), [Avijet Prasad](#), [Nikolai Pogorelov](#), [Gary Zank](#), [Qiang Hu](#)

Journal of Physics Conference Series - Proceedings of the 19th Annual International Astrophysics
2020

<https://arxiv.org/pdf/2007.12361.pdf>

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

04:16 – M1.5; **пересвет** на STEREO-B $B=19^2/297=0,13$

10:43 – M5.3 вспышка; **пересвет** на STEREO-A, $A=58^2/314=0,37$

18:36 – M4.4 вспышка; **пересвет** на STEREO-A, $A=44^2/314=0,28$

March 8: значительная активность

03:58 – SDO – SE лимб эрупция и M1.5 вспышка в АО 1171, крупный CME;

Хорошо видно на STEREO-B с глобальной корональной волной

10:44 - SDO – короткая SW -limb M5.3 вспышка в АО 1165 без CME;

18:28 - SDO – короткая SW -limb M4.4 вспышка в АО 1165, видимо, тоже без CME;

20:16 – LDE SW -limb M1.4 вспышка в АО 1165 с крупным CME; видно на STEREO-A

Modelling the propagation of coronal mass ejections with COCONUT: implementation of the Regularized Biot-Savart Laws flux rope model

[Jinhan Guo](#), [L. Linan](#), [S. Poedts](#), [Y. Guo](#), [A. Lani](#), [B. Schmieder](#), [M. Brchneleva](#), [B. Perri](#), [T. Baratashvili](#), [Y. W. Ni](#), [P. F. Chen](#)

A&A 2023

<https://arxiv.org/pdf/2311.13432.pdf>

A Three-Dimensional Velocity of an Erupting Prominence Prior to a Coronal Mass Ejection

[Maria V. Gutierrez](#), [Kenichi Otsuji](#), [Ayumi Asai](#), [Raul Terrazas](#), [Mutsumi Ishitsuka](#), [Jose Ishitsuka](#), [Naoki Nakamura](#), [Yusuke Yoshinaga](#), [Satoshi Morita](#), [Takako T. Ishii](#), [Satoru UeNo](#), [Reizaburo Kitai](#), [Kazunari Shibata](#)

PASJ 2021

<https://arxiv.org/pdf/2101.08575.pdf>

Decoding the Pre-Eruptive Magnetic Field Configurations of Coronal Mass Ejections **Review**

[S. Patsourakos](#), [A. Vourlidas](#), [T. Török](#), [B. Kliem](#), [S. K. Antiochos](#), [V. Archontis](#), [G. Aulanier](#), [X. Cheng](#), [G. Chintzoglou](#), [M.K. Georgoulis](#), [L.M. Green](#), [J. E. Leake](#), [R. Moore](#), [A. Nindos](#), [P. Syntelis](#), [S. L. Yardley](#), [V. Yurchyshyn](#), [J. Zhang](#)

Space Science Reviews 2020

<https://arxiv.org/pdf/2010.10186.pdf> File

Initiation and Early Kinematic Evolution of Solar Eruptions

[X. Cheng](#), [J. Zhang](#), [B. Kliem](#), [T. {Török}](#), [C. Xing](#), [Z. J. Zhou](#), [B. Inhester](#), [M. D. Ding](#)

ApJ 2020

<https://arxiv.org/pdf/2004.03790.pdf>

Observations of Ray-Like Structures in Large-Scale Coronal Dimmings Produced by Limb CMEs

[F. Goryaev](#), [V. Slemzin](#), [D. Rodkin](#)

Solar Phys. 2020

<https://arxiv.org/pdf/2003.11326.pdf>

Polarimetric Reconstruction of Coronal Mass Ejections from LASCO-C2 Observations

O. Floyd, P. Lamy

Solar Physics November 2019, **294:168**

<https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1553-0.pdf>

Coronal magnetic field value radial distributions obtained by using the information on fast halo coronal mass ejections

V.G.Fainshtein, Ya.I.Egorov

Solar Phys. 2017

<https://arxiv.org/pdf/1712.09046.pdf>

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures

Edward M.B. Thiemann, Francis G. Eparvier and Thomas N. Woods

J. Space Weather Space Clim. 2017, **7**, A36

<https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170050.pdf>

Solar Activity from 2006 to 2014 and Short-term Forecasts of Solar Proton Events Using the ESPERTA Model

T. Alberti¹, M. Laurenza², E. W. Cliver³, M. Storini², G. Consolini², and F. Lepreti

2017 **ApJ** **838** 59 File

<http://sci-hub.cc/10.3847/1538-4357/aa5cb8>

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures

Edward M.B. Thiemann, Francis G. Eparvier, Thomas N. Woods

Journal of Space Weather and Space Climate 2017

<https://arxiv.org/pdf/1703.02995.pdf>

First Simultaneous Views of the Axial and Lateral Perspectives of a Coronal Mass Ejection

I. Cabello, H. Cremades, L. Balmaceda, I. Dohmen

Solar Phys. 2016 File

Emission Measure and Temperature Analysis of the Upper Coronal Source of a Solar Flare

Z. Ning, D. Li, Q. M. Zhang

Solar Physics 2016

Undamped transverse oscillations of coronal loops as a self-oscillatory process

Nakariakov, V. M., Anfinogentov, S., Nistico, G., Lee, D.-H.

A&A, Letter 2016

http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/Nakariakov_rev_two_columns.pdf

Thermodynamic Spectrum of Solar Flares Based on SDO/EVE Observations: Techniques and First Results

Yuming Wang, Zhenjun Zhou, Jie Zhang, Kai Liu, Rui Liu, Chenglong Shen, Phillip C.

Chamberlin

2015

<http://arxiv.org/pdf/1507.08895v1.pdf>

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations

A. Nindos, S. Patsourakos, A. Vourlidas, C. Tagikas

ApJ 2015

<http://arxiv.org/pdf/1507.03766v1.pdf>

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

Bridging EUV and white-light observations to inspect the initiation phase of a "two-stage" solar eruptive event
Byrne, J. P., Morgan, H., Seaton, D. B., Bain, H. M., Habbal, S. R.
E-print, June 2014; **Solar Phys.**
<http://arxiv.org/pdf/1406.4919v1.pdf>

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

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES
M. Ackermann², M. Ajello³, A. Albert⁴, A. Allafort^{5,1}, L. Baldini⁶, G. Barbiellini^{7,8}, D. Bastieri et al.
Fermi-LAT collaboration
E-print, April 2013, File; **ApJ**

THE DRIVER OF CORONAL MASS EJECTIONS IN THE LOW CORONA: A FLUX ROPE
X. Cheng^{1,2,3}, J. Zhang², M. D. Ding^{1,3}, Y. Liu^{4,5}, and W. Poomvises
2013 **ApJ** 763 43

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections
N. Gopalswamy, H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C. Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi, N. V. Nitta, M. J. Aschwanden, D. P. Choudhary
E-print, Jan 2013; **Adv. Space Res.**

Energetic Particle and Other Space Weather Events of Solar Cycle 24
N. Gopalswamy
E-print, Jan 2013, File; In **Space Weather: The space Radiation Environment**, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, **AIP Conf Proc. 1500, pp. 14-19, 2012**

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

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

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

Rapid Cavity Formation and Expansion in CMEs
Bernhard Kliem, Terry G. Forbes, Spiros Patsourakos, Angelos Vourlidas

UKSP Nugget, Feb 2012
<http://www.uksolphys.org/?p=4161>

OBSERVATIONS OF A TWO-STAGE SOLAR ERUPTIVE EVENT (SEE): EVIDENCE FOR SECONDARY HEATING

Yang Su^{1,2,3}, Brian R. Dennis¹, Gordon D. Holman¹, Tongjiang Wang^{1,2}, Phillip C. Chamberlin¹, Sabrina Savage¹ and Astrid Veronig
2012 ApJ 746 L5, File

NEW SOLAR EXTREME-ULTRAVIOLET IRRADIANCE OBSERVATIONS DURING FLARES

Thomas N. Woods^{1,9}, Rachel Hock¹, Frank Eparvier¹, Andrew R. Jones¹, Phillip C. Chamberlin², James A. Klimchuk², Leonid Didkovsky³, Darrell Judge³, John Mariska⁴, Harry Warren⁴, Carolus J. Schrijver⁵, David F. Webb⁶, Scott Bailey⁷ and W. Kent Tobiska
2011 ApJ 739 59

Two-Stage SEE shows reconnection

Yang Su and Brian Dennis:

RHESSI science nugget No. 158, 8 Sept 2011

http://sprg.ssl.berkeley.edu/~tohan/wiki/index.php/Two-stage_SEE_Shows_Reconnection

8-11 Mar

Relationship between Successive Flares in the Same Active Region and Space-Weather HMI Active Region Patch (SHARP) Parameters

[Hao Ran](#), [Ying D. Liu](#), [Yang Guo](#), [Rui Wang](#)

ApJ 2022

<https://arxiv.org/pdf/2207.07254.pdf>

9 March – 08:56 – C9.4 вспышка; **пересвет** на STEREO-A, $A=7*2/314=0,05$

11:11 – M1.7 вспышка; **пересвет** на STEREO-A, $A=14,5*2/314=0,09$

14:16 – M1.7 **пересвет** $A=17,5*2/314=0,11$ ←16s 8s→L/Rs=0.056

22:16 – C9.4 **пересвет** $A=18,5*2/314=0,12$ ←16s 8s→ 22:11 L/Rs=17*2/314=0,108

23:26 – X1.5 вспышка; **пересвет** на STEREO-A, $A=43*2/314=0,27$

March 9: - 10:40: M1.7 вспышка, восточная корональная волна

На кадре 22:44 **заметное поглощение на SDO/304 A**

23:12 – **импульсная центральная X1.5/2B вспышка в AO 1166 (N08W09)**;

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>

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

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

A&A 2024

<https://arxiv.org/pdf/2402.12254.pdf>

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

Y.LIU, T.TOROK, V.S.TITOV, J.E.LEAKE, X.SUN (孙旭东), M.JIN

ApJ 2023

http://sun.stanford.edu/~yliu/papers/neutralization_finalVersion.pdf

Magnetic Imprints of Eruptive and Noneruptive Solar Flares as Observed by Solar Dynamics Observatory

N. Vasantharaju^{1,2}, P. Vemareddy¹, B. Ravindra¹, and V. H. Doddamani³

2022 **ApJ** **927** 86

<https://iopscience.iop.org/article/10.3847/1538-4357/ac4d8c/pdf>

Magnetic imprints of eruptive and non-eruptive Solar flares as observed by Solar Dynamics Observatory

N. Vasantharaju, P. Vemareddy, B. Ravindra, V. H. Doddamani

ApJ 2022

<https://arxiv.org/pdf/2201.06550.pdf>

Proton Energy Spectra of Energetic Storm Particle Events and Relation with Shock Parameters and Turbulence

Federica Chiappetta¹, Monica Laurenza², Fabio Lepreti^{1,3}, and Giuseppe Consolini²

2021 **ApJ** **915** 8

<https://doi.org/10.3847/1538-4357/abfe09>

<https://iopscience.iop.org/article/10.3847/1538-4357/abfe09/pdf>

Global energetics of solar flares. XIII. The Neupert effect and acceleration of coronal mass ejections

Markus J. Aschwanden

ApJ 2021

<https://arxiv.org/pdf/2112.07759.pdf> File

Magnetic helicity and energy budget around large confined and eruptive solar flares

Manu Gupta, J. K. Thalmann, A. M. Veronig

A&A 2021

<https://arxiv.org/pdf/2106.08781.pdf>

Differences in periodic magnetic helicity injection behaviour between flaring and non-flaring Active Regions: Case Study

M. B. Korsos, P. Romano, H. Morgan, Y. Ye, R. Erdelyi, F. Zuccarello

2020

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Solar Flare Prediction Using Magnetic Field Diagnostics Above the Photosphere

M. B. Korsos, M. K. Georgoulis, N. Gyenge, S. K. Bisoi, S. Yu, S. Poedts, C. J. Nelson, J. Liu, Y. Yan, R. Erdelyi

2020

<https://arxiv.org/pdf/2005.12180.pdf>

A Study of Pre-Flare Solar Coronal Magnetic Fields: Magnetic Flux Ropes

Aiyang Duan, Chaowei Jiang, Wen He, Xueshang Feng, Peng Zou, Jun Cui

ApJ 2019

<https://arxiv.org/pdf/1908.08643.pdf>

Two Types of Solar Confined Flares

Ting Li, Lijuan Liu, Yijun Hou, Jun Zhang

ApJS 2019

<https://arxiv.org/pdf/1907.04510.pdf>

A new small satellite sunspot triggering recurrent standard- and blowout-coronal jets

Yuhu Miao, Y. Liu, Y. D. Shen, A. Elmhamdi, A. S. Kordi, H. B. Li, Z. Z. Abidin, Z. J. Tian

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Powerful solar flares in September 2017. Comparison with the largest flares in cycle 24
E. A. Bruevich, [V. V. Bruevich](#)
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A Statistical Study of the Magnetic Imprints of X-Class Flares using SDO/HMI Vector Magnetograms
Zekun Lu, [Weiguang Cao](#), [Gaoxiang Jin](#), [Yining Zhang](#), [Mingde Ding](#), [Yang Guo](#)
ApJ 2018
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Ion Traps at the Sun: Implications for Elemental Fractionation
Gregory Fleishman, [Sophie Musset](#), [Véronique Bommier](#), [Lindsay Glesener](#)
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<https://arxiv.org/pdf/1803.02851.pdf>

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

Magnetic Properties of Solar Active Regions that Govern Large Solar Flares and Eruptions
Shin Toriumi, Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima
ApJ 2016
<https://arxiv.org/pdf/1611.05047v1.pdf>

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

The nonpotentiality of coronae of solar active regions, the dynamics of the surface magnetic field, and the potential for large flares
C.J. Schrijver
ApJ 2016
<http://arxiv.org/pdf/1602.07244v1.pdf>

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

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

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

Quasi-Static 3D-Magnetic Field Evolution in Solar Active Region NOAA 11166 Associated with X1.5 Flare

P. Vemareddy, and T. Wiegmann

E-print, July 2014; ApJ

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Constraining solar flare differential emission measures with EVE and RHESSI

Amir Caspi, James M. McTiernan, Harry P. Warren

E-print, May 2014; ApJL

http://www.ssl.berkeley.edu/~cepheid/eprints/Caspi_McTiernan_Warren_2014_ApJL.pdf

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A Study of Connections Between Solar Flares and Subsurface Flow Fields of Active Regions

Yu Gao, Junwei Zhao, Hongqi Zhang

Solar Physics, February 2014, Volume 289, Issue 2, pp 493-502

Solar Flare Impulsive Phase Emission Observed with SDO/EVE

Michael B. Kennedy¹, Ryan O. Milligan^{1,2,3}, Mihalis Mathioudakis¹, and Francis P. Keenan

2013 ApJ 779 84

<http://arxiv.org/abs/1310.4649>

Soft X-ray Fluxes of Major Flares Far Behind the Limb as Estimated Using STEREO EUV Images

N. V. Nitta, M. J. Aschwanden, P. F. Boerner, S. L. Freeland, J. R. Lemen, J.-P. Wuelser

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

THE ABRUPT CHANGES IN THE PHOTOSPHERIC MAGNETIC AND LORENTZ FORCE VECTORS DURING SIX MAJOR NEUTRAL-LINE FLARES

G. J. D. Petrie

2012 ApJ 759 50

Charge-exchange Limits on Low-energy α -particle Fluxes in Solar Flares

Hudson, H. S.; Fletcher, L.; MacKinnon, A. L.; Woods, T. N.

E-print, Feb 2014; ApJ 752, 84 (2012)

<http://arxiv.org/pdf/1401.6477v1.pdf>

March 10

A Quasi-periodic propagating wave and EUV waves excited simultaneously in a solar eruption event

Y. H. Miao, Y. Liu, Y. D. Shen, H. B. Li, Z. Z. Abidin, A. Elmhamdi, A. S. Kordi

ApJL 871 L2 2019

<https://iopscience.iop.org/article/10.3847/2041-8213/aafaf9/pdf>

<https://arxiv.org/pdf/1812.09858.pdf>

sci-hub.ru/10.3847/2041-8213/aafaf9

Active longitude and CME occurrences

N. Gyenge, T. Singh, T. S. Kiss, A. K. Srivastava, R. Erdélyi

2017

<https://arxiv.org/pdf/1702.06664.pdf>

The radial speed-expansion speed relation for Earth-directed CMEs

P. Mäkelä, N. Gopalswamy, S. Yashiro

Space Weather Volume 14, Issue 5 May 2016 Pages 368–378 File

<http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf>

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

11 March

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

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

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

Global energetics of solar flares. XIII. The Neupert effect and acceleration of coronal mass ejections

[Markus J. Aschwanden](#)
ApJ 2021
<https://arxiv.org/pdf/2112.07759.pdf> File

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

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

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

15 March – 00:26– M1.0 вспышка; **пересвет** на STEREO-A, $A=11,5*2/315=0,07$

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

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

Vertical oscillation of a coronal cavity triggered by an EUV wave

Q. M. Zhang, H. S. Ji
ApJ 2018
<https://arxiv.org/pdf/1805.01088.pdf>

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

16-20 Mar

On the Contribution of Coronal Mass Ejections to the Heliospheric Magnetic Flux Budget on Different Time Scales

Réka M. Winslow^{1,1}, Camilla Scolini^{1,2}, Noé Lugaz¹, Nathan A. Schwadron^{1,3}, and Antoinette B. Galvin¹

2023 ApJ 958 41

<https://iopscience.iop.org/article/10.3847/1538-4357/ad02f2/pdf>

18-22-26 Mar

A Precursor to Solar Prominence Eruptions: Detection and Analysis of EUV Prominence Oscillations

William Beckwith-Chandler³, Claire Foullon, and Erwin Verwichte

2024 ApJ 977 253

<https://iopscience.iop.org/article/10.3847/1538-4357/ad8e3c/pdf>

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

Difference of source regions between fast and slow coronal mass ejections

B. Filippov

PASAustralia 2019

<https://arxiv.org/pdf/1904.04060.pdf>

The Characteristics of Solar X-Class Flares and CMEs: A Paradigm for Stellar Superflares and Eruptions?

Louise K. Harra, Carolus J. Schrijver, Miho Janvier, Shin Toriumi, Hugh Hudson, Sarah Matthews, Magnus M. Woods, Hirohisa Hara, Manuel Guedel, Adam Kowalski, Rachel Osten, Kanya Kusano, Theresa Lueftinger

Solar Phys. 2016 Open Access File

Solar origin of in-situ near-relativistic electron spikes observed with SEPT/STEREO

A. Klassen, R. Gomez-Herrero, B. Heber, Y. Kartavykh, W. Dröge, K.-L. Klein

E-print, April 2012; A&A

Plasma parameters in eruptive prominences from SDO/AIA observations

Kristopher McGlinchey and Nicolas Labrosse

UKSP Nuggets, 21, March 2012

<http://www.uksolphys.org/?p=4247>

20 March

Statistical Analysis of the Horizontal Divergent Flow in Emerging Solar Active Regions

Shin Toriumi, Keiji Hayashi, Takaaki Yokoyama

ApJ, 2014

<http://arxiv.org/pdf/1408.2383v1.pdf>

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

March 21: ~02 – Behind the W-limb proton flare; крупный NW CME. See STEREO-A.

~18 - очень длительный C4.2 LDE от выходящей SE области;
См. трансэкваториальную эрупцию на STEREO-B.

Study of Solar Energetic Particle Associations with Coronal Extreme-ultraviolet Waves

Jinhye Park¹, **D. E. Innes**², **R. Bucik**^{2,3}, **Y.-J. Moon**^{1,4}, and **S. W. Kahler**

2015 **ApJ** **808** 3

See presentation

https://community.apan.org/cfs-file.ashx/_key/telligent-evolution-components-attachments/13-7784-00-00-00-14-46-02/Park.pdf

Type II and Type III Radio Bursts and their Correlation with Solar Energetic Proton Events

L.M. Winter, **K. Ledbetter**

ApJ 2015

<http://arxiv.org/pdf/1507.01620v1.pdf>

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

Harim Lee¹, **Y.-J. Moon**¹, and **V. M. Nakariakov**

2015 **ApJ** **803** L7

http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/2041-8205_803_1_L7.pdf

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

Janusz Nicewicz, **Grzegorz Michalek**

Advances in Space Research, 2014

> 25 MeV Proton Events Observed by the High Energy Telescopes on the STEREO A and B Spacecraft and/or at Earth During the First ~ Seven Years of the STEREO Mission

I. G. Richardson, **T. T. von Rosenvinge**, **H. V. Cane**, **E. R. Christian**, **C. M. S. Cohen**, **A. W.**

Labrador, **R. A. Leske**, **R. A. Mewaldt**, **M. E. Wiedenbeck**, **E. C. Stone**

Solar Phys., 2014, File

Soft X-ray Fluxes of Major Flares Far Behind the Limb as Estimated Using STEREO EUV Images

N. V. Nitta, **M. J. Aschwanden**, **P. F. Boerner**, **S. L. Freeland**, **J. R. Lemen**, **J.-P. Wuelser**

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

СОЛНЕЧНЫЕ ПРОТОННЫЕ СОБЫТИЯ В КОНЦЕ 23-ГО И НАЧАЛЕ 24-ГО СОЛНЕЧНЫХ ЦИКЛОВ, ЗАРЕГИСТРИРОВАННЫЕ В ЭКСПЕРИМЕНТЕ ПАМЕЛА

Базилевская Г.А., **Майоров А.Г.**, **Малахов В.В.**, **Михайлов В.В.**, **Адриани О.**, **Барбарини Д.С.**, **Белотти Р.**, **Боецио М.**, **Богомолов Э.А.**, **Бонвичини В.**, **Бонджи М.**, **Бонеки Л.**, **Борисов С.В.**, **Боттаи С.**, **Бруно А.**, **Вакки А.**, **Вануччини Е.**, **Васильев Г.И.**, **Воронов С.А.**, **Ву Ю.** и др.

Известия РАН, Серия физическая, том 77, № 5, с. 557–560, 2013.

Solar energetic particle events in 2006-2012 in the PAMELA experiment data

G A Bazilevskaya et al

2013 **J. Phys.: Conf. Ser.** **409** 012188

Energetic Particle and Other Space Weather Events of Solar Cycle 24

N. Gopalswamy

E-print, Jan 2013, File; In **Space Weather: The space Radiation Environment**, Ed. **Q. Hu**, **G. Li**, **G.**

P. Zank, **X. Ao**, **O. Verkhoglyadova**, **J. H. Adama**, **AIP Conf Proc.** **1500**, pp. 14-19, 2012

THE LONGITUDINAL PROPERTIES OF A SOLAR ENERGETIC PARTICLE EVENT INVESTIGATED USING MODERN SOLAR IMAGING

A. P. Rouillard^{1,2,3}, N. R. Sheeley⁴, A. Tylka⁴, A. Vourlidas⁴, C. K. Ng^{3,5}, C. Rakowski⁴, C. M. S. Cohen⁶, R. A. Mewaldt⁶, G. M. Mason⁷, D. Reames⁸, N. P. Savani⁹, O. C. StCyr⁵, and A. Szabo
2012 ApJ 752 44, File

22 Mar

Three-dimensional reconstruction of type U radio bursts: a novel remote sensing approach for coronal loops

[S. Mancuso](#), [D. Barghini](#), [A. Bemporad](#), [D. Telloni](#), [D. Gardiol](#), [F. Frassati](#), [I. Bizzarri](#), [C. Taricco](#)
A&A 2022

<https://arxiv.org/pdf/2212.02147.pdf>

Multipoint Analysis of the Interaction between a Shock and an ICME-like Structure around 2011 March 22

Mengjiao Xu^{1,2}, Chenglong Shen^{1,2}, Can Wang¹, Yutian Chi^{1,2}, Zhihui Zhong¹, and Yuming Wang^{1,2,3}

2022 ApJL 930 L11

<https://iopscience.iop.org/article/10.3847/2041-8213/ac6879/pdf>

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

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

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

March 24: ~>02 – заметная SE эрупция в канале 304 А

~12 UT – очень импульсная SE C9 вспышка с корональной волной;

См. Events

~17 UT - – еще одна очень импульсная SE C9.1 вспышка с корональной волной(?);

До и после нее эрупция в канале 304 А; см. STEREO-B.

Is There a Dynamic Difference between Stealthy and Standard Coronal Mass Ejections?

Beili Ying¹, Alessandro Bemporad^{2,1}, Li Feng^{1,3}, Nariaki V. Nitta⁴, and Weiqun Gan^{1,3}

2023 ApJ 942 3

<https://iopscience.iop.org/article/10.3847/1538-4357/aca52c/pdf>

Is there a Dynamic Difference between Stealthy and Standard CMEs?

[Beili Ying](#), [Alessandro Bemporad](#), [Li Feng](#), [Nariaki V. Nitta](#), [Weiqun Gan](#)

ApJ 2022

<https://arxiv.org/pdf/2211.12825.pdf>

Connecting solar flare hard X-ray spectra to in situ electron spectra. A comparison of RHESSI and STEREO/SEPT observations

[Nina Dresing](#), [A. Warmuth](#), [F. Effenberger](#), [K.-L. Klein](#), [S. Musset](#), [L. Glesener](#), [M. Brüdern](#)

A&A 2021

<https://arxiv.org/pdf/2108.09045.pdf>

A STEREO Survey of Magnetic Cloud Coronal Mass Ejections Observed at Earth in 2008--2012

Brian E. Wood, Chin-Chun Wu, Ronald P. Lepping, Teresa Nieves-Chinchilla, Russell A. Howard, Mark G. Linton, Dennis G. Socker
Astrophysical Journal Supplement 2017 File
<https://arxiv.org/pdf/1701.01682v1.pdf>

Advances in Observing Various Coronal EUV Waves in the SDO Era and Their Seismological Applications (Invited Review)

Wei Liu, Leon Ofman

E-print, April 2014; Solar Physics (Topical Issue, "Exploring the Network of SDO Science")

http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf

Deformation and deceleration of coronal wave

Z. K. Xue^{1,3}, Z. Q. Qu¹, X. L. Yan^{1,2}, L. Zhao⁴ and L. Ma

A&A 556, A152 (2013), File

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

March 25:

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation

Nishtha Sachdeva

Ph.D. Thesis 2019

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

Predicting the magnetic vectors within coronal mass ejections arriving at Earth: 2. Geomagnetic response

N. P. Savani, A. Vourlidas, I. G. Richardson, A. Szabo, B. J. Thompson, A. Pulkkinen, M. L. Mays, T. Nieves-Chinchilla, V. Bothmer

Space Weather Volume 15, Issue 2 February 2017 Pages 441–461 DOI: 10.1002/2016SW001458

<http://onlinelibrary.wiley.com/doi/10.1002/2016SW001458/full>

<http://sci-hub.cc/10.1002/2016SW001458>

On Sun-to-Earth Propagation of Coronal Mass Ejections: 2. Slow Events and Comparison with Others

Ying D. Liu, Huidong Hu, Chi Wang, Janet G. Luhmann, John D. Richardson, Zhongwei Yang, Rui Wang

ApJ Supplement 2016

<http://arxiv.org/pdf/1512.07949v1.pdf>

Predicting the magnetic vectors within coronal mass ejections arriving at Earth

1. Initial architecture

Savani, N. P.; Vourlidas, A.; Szabo, A.; Mays, M. L.; Thompson, B. J.; Richardson, I. G.; Evans, R.; Pulkkinen, A.; Nieves-Chinchilla, T.

Space Weather, Volume 13, Issue 6 June 2015 Pages 374–385,

<http://arxiv.org/pdf/1502.02067v1.pdf> File

<http://onlinelibrary.wiley.com/doi/10.1002/2015SW001171/full>

Possible role of coronal streamer as magnetically-closed structure in shock-induced energetic electrons and metric type II radio bursts

Xiangliang Kong, Yao Chen, Fan Guo, Shiwei Feng, Bing Wang, Guohui Du, Gang Li

ApJ, 2014

<http://arxiv.org/pdf/1410.7994v1.pdf>

Advances in Observing Various Coronal EUV Waves in the SDO Era and Their Seismological Applications (**Invited Review**)

Wei Liu, Leon Ofman

E-print, April 2014; Solar Physics (Topical Issue, "Exploring the Network of SDO Science")

http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf

Solar Flare Impulsive Phase Emission Observed with SDO/EVE

Michael B. Kennedy¹, Ryan O. Milligan^{1,2,3}, Mihalis Mathioudakis¹, and Francis P. Keenan

2013 ApJ 779 84

<http://arxiv.org/abs/1310.4649>

Quantitative Comparison of Methods for Predicting the Arrival of Coronal Mass Ejections at Earth based on multi-view imaging†

R. C. Colaninno*, A. Vourlidas, C. C. Wu

Journal of Geophysical Research: Space Physics, Nov 2013; File

<http://arxiv.org/pdf/1310.6680v2.pdf>

Eruption of a plasma blob, associated M-class flare, and large-scale extreme-ultraviolet wave observed by SDO*

P. Kumar¹ and P. K. Manoharan

A&A 553, A109 (2013); File

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections

N. Gopalswamy, H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C.

Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi,

N. V. Nitta, M. J. Aschwanden, D. P. Choudhary

E-print, Jan 2013; Adv. Space Res.

Observables Indicating Two Major Coronal Mass Ejections During the WHI

N. V. Nitta

Solar Physics, Volume 274, Numbers 1-2, 219-232, 2011

March 25-29

Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures

Nariaki V. Nitta, Tamitha Mulligan

[Solar Physics](#) September 2017, 292:125 File

CME propagation: Where does the solar wind drag take over?

Nishtha Sachdeva, Prasad Subramanian, Robin Colaninno, Angelos Vourlidas

ApJ 2015

<http://arxiv.org/pdf/1507.05199v1.pdf>

March 26

The Submillimeter Active Region Excess Brightness Temperature during Solar Cycles 23 and 24

[C. Guillermo Giménez de Castro](#) (1 and 2), [André L. G. Pereira](#) (1), [J. Fernando Valle](#)

[Silva](#) (1), [Caius L. Selhorst](#) (3), [Cristina H. Mandrini](#) (2), [Germán D. Cristiani](#) (2), [Jean-Pierre](#)

[Raulin](#) (1), [Adriana Valio](#) (1)

ApJ 2020

<https://arxiv.org/pdf/2009.03445.pdf>

Predicting the Time-of-Arrival of Coronal Mass Ejections at Earth From Heliospheric Imaging Observations

Carlos Roberto Braga, [Angelos Vourlidas](#), [Guillermo Stenborg](#), [Alisson Dal Lago](#), [Rafael Rodrigues Souza de Mendonça](#), [Ezequiel Echer](#)

JGR 2020

<https://arxiv.org/pdf/2008.09005.pdf>

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

Janusz Nicewicz, **Grzegorz Michalek**

Advances in Space Research, 2014

March 27:

The Automatic Identification and Tracking of Coronal Flux Ropes -- Part II: New Mathematical Morphology-based Flux Rope Extraction Method and Deflection Analysis

[Andreas Wagner](#), [Slava Bourgeois](#), [Emilia K. J. Kilpua](#), [Ranadeep Sarkar](#), [Daniel J. Price](#), [Anshu Kumari](#), [Jens Pomoell](#), [Stefaan Poedts](#), [Teresa Barata](#), [Robertus Erdélyi](#), [Orlando Oliveira](#), [Ricardo Gafeira](#)

A&A 2023

<https://arxiv.org/pdf/2312.00673.pdf>

On the Nature of the Three-part Structure of Solar Coronal Mass Ejections

[Hongqiang Song](#), [Jie Zhang](#), [Leping Li](#), [Zihao Yang](#), [Lidong Xia](#), [Ruisheng Zheng](#), [Yao Chen](#)

ApJ 2022

<https://arxiv.org/pdf/2212.04013.pdf>

Analysis of large deflections of prominence-CME events during the rising phase of solar cycle 24

[M.V. Sieyra](#), [M. Cécere](#), [H. Cremades](#), [F.A. Iglesias](#), [A. Sahade](#), [M. Mierla](#), [G. Stenborg](#), [A. Costa](#), [M. West](#), [E. D'Huys](#)

2020

<https://arxiv.org/pdf/2007.14317.pdf>

Spatial Distributions of Sunspot Oscillation Modes at Different Temperatures

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

Research in Astronomy and Astrophysics 2019

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

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS.

I. THE CASE FOR BLAST WAVES

T. A. Howard¹ and **V. J. Pizzo**

2016 ApJ 824 92 File

Tracking the momentum flux of a CME and quantifying its influence on geomagnetically induced currents at Earth

N. P. Savani, **A. Vourlidas**, **A. Pulkkinen**, **T. Nieves-Chinchilla**, **B. Lavraud** and **M. J. Owens**
SPACE WEATHER, VOL. 11, 245–261, doi:10.1002/swe.20038, 2013

<http://onlinelibrary.wiley.com/doi/10.1002/swe.20038/pdf>

A BROKEN SOLAR TYPE II RADIO BURST INDUCED BY A CORONAL SHOCK PROPAGATING ACROSS THE STREAMER BOUNDARY

X. L. Kong, **Y. Chen**, **G. Li**, **S. W. Feng**, **H. Q. Song**, **F. Guo**, and **F. R. Jiao**

March 29

Automatic Detection of Interplanetary Coronal Mass Ejections in Solar Wind In Situ Data

Hannah T. Rüdissler, [Andreas Windisch](#), [Ute V. Amerstorfer](#), [Christian Möstl](#), [Tanja Amerstorfer](#), [Rachel L. Bailey](#), [Martin A. Reiss](#)

Space Weather 2022

<https://arxiv.org/pdf/2205.03578.pdf>

Analysis of large deflections of prominence-CME events during the rising phase of solar cycle 24

[M.V. Sieyra](#), [M. Cécere](#), [H. Cremades](#), [F.A. Iglesias](#), [A. Sahade](#), [M. Mierla](#), [G. Stenborg](#), [A. Costa](#), [M. West](#), [E. D'Huvs](#)

2020

<https://arxiv.org/pdf/2007.14317.pdf>

Quantitative Comparison of Methods for Predicting the Arrival of Coronal Mass Ejections at Earth based on multi-view imaging†

[R. C. Colaninno*](#), [A. Vourlidas](#), [C. C. Wu](#)

Journal of Geophysical Research: Space Physics, Nov 2013; File

<http://arxiv.org/pdf/1310.6680v2.pdf>

29 March-1 Apr

Machine learning for predicting the Bz magnetic field component from upstream in situ observations of solar coronal mass ejections

[M. A. Reiss](#), [C. Möstl](#), [R. L. Bailey](#), [H. T. Rüdissler](#), [U. V. Amerstorfer](#), [T. Amerstorfer](#), [A. J. Weiss](#), [J. Hinterreiter](#), [A. Windisch](#)

Space Weather e2021SW002859 2021

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2021SW002859>

<https://doi.org/10.1029/2021SW002859>

Predicting the magnetic vectors within coronal mass ejections arriving at Earth

[Savani, N. P.](#); [Vourlidas, A.](#); [Szabo, A.](#); [Mays, M. L.](#); [Thompson, B. J.](#); [Richardson, I. G.](#); [Evans, R.](#); [Pulkkinen, A.](#); [Nieves-Chinchilla, T.](#)

Space Weather Journal, Jan 2015, File

<http://arxiv.org/pdf/1502.02067v1.pdf>

March 30

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

Impulsive plasma outflows due to wave driven magnetic reconnection

[Yamini K. Rao](#), [A.K. Srivastava](#), [J.G. Doyle](#) and [Bhola N. Dwivedi](#)

MNRAS 2017

<http://star.arm.ac.uk/preprints/2017/690.pdf>

Automatic detection of Interplanetary Coronal Mass Ejections from in-situ data: a deep learning approach

[Gautier Nguyen](#), [Nicolas Aunai](#), [Dominique Fontaine](#), [Erwan Le Pennec](#), [Joris Van den Bossche](#), [Alexis Jeandet](#), [Brice Bakkali](#), [Louis Vignoli](#), [Bruno Regaldo-Saint Blancar](#)

2019

<https://arxiv.org/pdf/1903.10780.pdf>

Structures of Interplanetary Magnetic Flux Ropes and Comparison with Their Solar Sources

Qiang Hu, Jiong Qiu, B. Dasgupta, A. Khare, and G. M. Webb
ApJ, 2014; File
https://dl.dropboxusercontent.com/u/96898685/ms_fr_v4.pdf

March 31

A Database of Flare Ribbon Properties From Solar Dynamics Observatory I: Reconnection Flux
Maria D. Kazachenko, Benjamin J. Lynch, Brian T. Welsch, Xudong Sun
ApJ 2017
<https://arxiv.org/pdf/1704.05097.pdf>

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

1 Apr

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

Recovering the unsigned photospheric magnetic field from Ca II K observations
Theodosios Chatzistergos, Ilaria Ermolli, Sami K. Solanki, Natalie A. Krivova, Fabrizio Giorgi, Kok Leng Yeo
A&A 2019
<https://arxiv.org/pdf/1905.03453.pdf>

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

2 Apr

Connecting 3D evolution of Coronal Mass Ejections to their Source Regions
Satabdwa Majumdar, Vaibhav Pant, Ritesh Patel, Dipankar Banerjee
ApJ 2020
<https://arxiv.org/pdf/2007.00923.pdf>

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

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

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

Three-Year Global Survey of Coronal Null Points from Potential-Field-Source-Surface (PFSS) Modeling and Solar Dynamics Observatory (SDO) Observations
Michael Freed, Dana Longcope, David McKenzie
Solar Physics, 2014
<http://arxiv.org/pdf/1410.4493v1.pdf>

5-6 Apr

STEREO Observations of Interplanetary Coronal Mass Ejections in 2007–2016
L. K. Jian^{1,2}, C. T. Russell^{3,4}, J. G. Luhmann⁵, and A. B. Galvin^{6,7}
2018 *ApJ* **855** 114
<http://sci-hub.tw/http://iopscience.iop.org/0004-637X/855/2/114/>

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

Study of High-temperature Emission in Solar Active Regions
M. Asgari-Targhi¹, A. A. van Ballegooijen¹, and A. R. Davey²
2019 *ApJ* **881** 107
sci-hub.se/10.3847/1538-4357/ab2e01

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

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

THE HEIGHT EVOLUTION OF THE "TRUE" CORONAL MASS EJECTION MASS DERIVED FROM STEREO COR1 AND COR2 OBSERVATIONS
B. M. Bein¹, M. Temmer¹, A. Vourlidas², A. M. Veronig¹, and D. Utz
2013 *ApJ* **768** 31; File

7-10 Apr

Inflows in the Inner White-light Corona: The Closing-down of Flux after Coronal Mass Ejections
P. Hess and Y.-M. Wang
2017 *ApJ* **850** 6
<http://sci-hub.cc/10.3847/1538-4357/aa921d>

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

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

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

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

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

Measurements of Non-Thermal Line Widths in Solar Active Regions

David H. Brooks, Harry P. Warren
ApJ 2015
<http://arxiv.org/pdf/1511.02313v1.pdf>

Coronal magnetic field and the plasma beta determined from radio and multiple satellite observations

Kazumasa Iwai, Kiyoto Shibasaki, Satoshi Nozawa, Takuya Takahashi, Shinpei Sawada, Jun Kitagawa, Shun Miyawaki, Hirotaka Kashiwagi
Earth planets and Space (EPS), CAWSES-II special issue, 2014
<http://arxiv.org/pdf/1411.1913v1.pdf>

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

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

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

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

Radio seismology of the outer solar corona

T. V. Zaqarashvili^{1,4}, V. N. Melnik², A. I. Brazhenko³, M. Panchenko¹, A. A. Konvalenko², A. V. Franzuzenko³, V. V. Dorovskyy² and H. O. Rucker
A&A 555, A55 (2013)

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

15 April

Widespread Occurrence of High-Velocity Upflows in Solar Active Regions

[S. L. Yardley](#), [D. H. Brooks](#), [D. Baker](#)
A&A 2021
<https://arxiv.org/pdf/2106.01396.pdf>

Study of High-temperature Emission in Solar Active Regions

[M. Asgari-Targhi](#)¹, [A. A. van Ballegoijen](#)¹, and [A. R. Davey](#)²
2019 ApJ 881 107
[sci-hub.sc/10.3847/1538-4357/ab2e01](https://arxiv.org/abs/10.3847/1538-4357/ab2e01)

The Magnetic Properties of Heating Events on High-Temperature Active Region Loops

[Ignacio Ugarte-Urra](#), [Nicholas A. Crump](#), [Harry P. Warren](#), [Thomas Wiegmann](#)
ApJ 2019
<https://arxiv.org/pdf/1904.11976.pdf>

Properties of the diffuse emission around warm loops in solar active regions

[David H. Brooks](#)
ApJ 2019
<https://arxiv.org/pdf/1901.07741.pdf>

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

April 17

Evolution of the Radial Size and Expansion of Coronal Mass Ejections Investigated by Combining Remote and In Situ Observations

Bin [Zhuang](#)¹, Noé Lugaz¹, Nada Al-Haddad¹, Réka M. Winslow¹, Camilla Scolini¹, Charles J. Farrugia¹, and Antoinette B. Galvin¹
2023 ApJ 952 7
<https://iopscience.iop.org/article/10.3847/1538-4357/acd847/pdf>
<https://arxiv.org/pdf/2305.14339.pdf>

Why does the apparent mass of a coronal mass ejection increase?

Li [Feng](#), Yuming Wang, [Fang Shen](#), [Chenglong Shen](#), [Bernd Inhester](#), [Lei Lu](#), [Weiqun Gan](#)
ApJ 2015
<http://arxiv.org/pdf/1509.02246v1.pdf>

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

Janusz [Nicewicz](#), , [Grzegorz Michalek](#)
Advances in Space Research, 2014

18 Apr

Statistical Analysis of the Horizontal Divergent Flow in Emerging Solar Active Regions
[Shin Toriumi](#), [Keiji Hayashi](#), [Takaaki Yokoyama](#)
ApJ, 2014
<http://arxiv.org/pdf/1408.2383v1.pdf>

19 Apr

Are Nonthermal Velocities in Active Region Coronal Loops Anisotropic?

Michael [Hahn](#)¹, Mahboubeh Asgari-Targhi², and Daniel Wolf Savin¹
2023 ApJ 953 3
<https://iopscience.iop.org/article/10.3847/1538-4357/acdfd2/pdf>

Measurements of Non-Thermal Line Widths in Solar Active Regions

David H. [Brooks](#), Harry P. Warren
ApJ 2015
<http://arxiv.org/pdf/1511.02313v1.pdf>

The Evolution of the EM Distribution in the Core of an Active Region

[Giulio Del Zanna](#), [Durgesh Tripathi](#), [Helen Mason](#), [Srividya Subramanian](#), [Brendan O'Dwyer](#)
A&A, 2014
<http://arxiv.org/pdf/1411.0128v1.pdf>

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

MAGNETIC TOPOLOGY OF BUBBLES IN QUIESCENT PROMINENCES

[J. Dudík](#)^{1,5,6,7}, [G. Aulanier](#)², [B. Schmieder](#)², [M. Zapiór](#)³, and [P. Heinzel](#)
2012 ApJ 761 9

21 Apr

Direct Measurement of Low-Energy Electron Foreshock Beams

Jan Soucek , [David Piša](#) , [Ondrej Santolík](#)

JGR [Volume124, Issue4](#) April 2019 Pages 2380-2392

sci-hub.sc/10.1029/2019JA026470

Properties of the diffuse emission around warm loops in solar active regions

David H. Brooks

ApJ 2019

<https://arxiv.org/pdf/1901.07741.pdf>

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

15:53 - M1.2 вспышка; **пересвет** на STEREO-B, $B=15^2/300=0.1$ сомнительный

April 22:

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

[Jiong Qiu](#)

ApJ 2021

<https://arxiv.org/pdf/2101.11069.pdf>

Identifying Solar Flare Precursors Using Time Series of SDO/HMI Images and SHARP Parameters

Yang [Chen](#)¹, Ward B. Manchester², Alfred O. Hero³, Gabor Toth², Benoit DuFumier³, Tian Zhou¹, Xiantong Wang², Haonan Zhu³, Zeyu Sun³, and Tamas I. Gombosi²

Space Weather [Volume17, Issue10](#) October 2019 Pages 1404-1426

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2019SW002214>

Multiwavelength diagnostics of the precursor and main phases of an M1.8 flare on 2011 April 22

[Awasthi](#), A. K.; [Jain](#), R.; [Gadhiya](#), P. D.; [Aschwanden](#), M. J.; [Uddin](#), W.; [Srivastava](#), A. K.;

[Chandra](#), R.; [Gopalswamy](#), N.; [Nitta](#), N. V.; [Yashiro](#), S.; [Manoharan](#), P. K.; [Choudhary](#), D. P.;

[Joshi](#), N. C.; [Dwivedi](#), V. C.; [Mahalakshmi](#), K.

MNRAS, Volume 437, Issue 3, p.2249-2262, 2014

<http://arxiv.org/pdf/1310.6029v1.pdf>

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

April 24

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

Harim [Lee](#)¹, Y.-J. Moon¹, and V. M. Nakariakov

2015 ApJ 803 L7

http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/2041-8205_803_1_L7.pdf

Spectro-polarimetric Imaging Reveals Helical Magnetic Fields in Solar Prominence Feet

M. J. Martinez [Gonzalez](#), R. Manso Sainz, [A. Asensio Ramos](#), [C. Beck](#), [J. de la Cruz Rodriguez](#), [A. J. Diaz](#)

ApJ 2015

<http://arxiv.org/pdf/1501.03295v1.pdf>

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

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

April 27:

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

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

28-29 Apr

Properties of the Sheath Regions of Coronal Mass Ejections with or without Shocks from
STEREO in situ Observations near 1 AU
T. M. Salmen, [N. Lugaz](#), [C. J. Farrugia](#), [R. M. Winslow](#), [L. K. Jian](#), [A. B. Galvin](#)
ApJ 2020
<https://arxiv.org/pdf/2011.06632.pdf>

29 Apr

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

30 Apr

Three-dimensional Density Structure of a Solar Coronal Streamer Observed by SOHO/LASCO
and STEREO/COR2 in Quadrature
[Bieke Decraemer](#), [Andrei N. Zhukov](#), [Tom Van Doorselaere](#)
ApJ 2019
<https://arxiv.org/pdf/1908.05034.pdf>

May 2011

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

РОДЬКИН Д.Г.

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

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

1 May

Medium Range Forecasting of Solar-Wind: A Case Study of Building Regression Model with
Space Weather Forecast Testbed (SWFT)
[Chunming Wang](#), [I. Gary Rosen](#), [Bruce T. Tsurutani](#), [Olga P. Verkhoglyadova](#), [Xing Meng](#),
[Anthony J. Mannucci](#)
Space Weather e2019SW002433 2020
<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2019SW002433>

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. II. THE CASE FOR ABSENT FILAMENTS

T. A. Howard¹, C. E. DeForest¹, U. G. Schneck², and C. R. Alden

2017 *ApJ* 834 86 DOI 10.3847/1538-4357/834/1/86

<http://c.brightcove.com/article/10.3847/1538-4357/834/1/86/pdf>

<http://iopscience.iop.org/sci-hub.cc/0004-637X/834/1/86/>

2 May

RELATIONSHIP BETWEEN DISTRIBUTION OF MAGNETIC DECAY INDEX AND FILAMENT ERUPTIONS

H. Li^{1,2}, Y. Liu¹, A. Elmhamdi³, and A.-S. Kordi³

2016 *ApJ* 830 132

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

May 4, ~17 UT – заметная NE эрупция

5 May

Saddle-shaped solar flare arcades

Juraj Lörinčík, Jaroslav Dudík, Guillaume Aulanier

ApJ 2021

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

A Catalog of Prominence Eruptions Detected Automatically in the SDO/AIA 304 Å Images

S. Yashiro (1 and 2), N. Gopalswamy (2), S. Akiyama (1 and 2), P.A. Mäkelä

2020

See https://cdaw.gsfc.nasa.gov/CME_list/autope/

<https://arxiv.org/ftp/arxiv/papers/2005/2005.11363.pdf>

May 5-6

Investigating the differential emission measure and energetics of microflares with combined SDO/AIA and RHESSI observations

A. R. Inglis, S. Christe

2014, *ApJ*

<http://arxiv.org/pdf/1405.5262v1.pdf>

7 May

Parameters of Type I Chains and Their Association with Flares in X-ray

Sodré, Z. A. L.; Fernandes, F. C. R.

Ground-based Solar Observations in the Space Instrumentation Era

ASP Conference Series, Vol. 504, p. 143, 2016

<http://aspbooks.org/publications/504/143.pdf>

8-11 May

Signatures of Untwisting Magnetic Field in a Small Emerging Bipole in the Solar Photosphere

C. R. Sangeetha, Durgesh Tripathi, S. P. Rajaguru

ApJ 2020

<https://arxiv.org/pdf/2004.05615.pdf>

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

A Study of Dimmings, CMEs, and Flares during the STEREO-SOHO Quadrature

Larisa D. Krista^{1,2,3}, Drew Manning⁴, and Matthew J. West⁵

2022 *ApJ* 930 165

<https://iopscience.iop.org/article/10.3847/1538-4357/ac67d7/pdf>

The 3D standard model for eruptive flares

Miho Janvier

RHESSI Science Nuggets, No. 226, May, 2014

http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/The_3D_standard_model_for_eruptive_flares

Source Region of the Decameter–Hectometric Type II Radio Burst: Shock–Streamer Interaction Region

Chenglong Shen¹, Chijian Liao¹, Yuming Wang¹, Pinzhong Ye¹ and Shui Wang

Solar Physics, February 2013, Volume 282, Issue 2, pp 543-552, File

The standard flare model in three dimensions

I. Strong-to-weak shear transition in post-flare loops

G. Aulanier, M. Janvier, and B. Schmieder

E-print, 20 May, 2012, File; A&A

May 9-11

> 25 MeV Proton Events Observed by the High Energy Telescopes on the STEREO A and B Spacecraft and/or at Earth During the First ~ Seven Years of the STEREO Mission

I. G. Richardson, T. T. von Rosenvinge, H. V. Cane, E. R. Christian, C. M. S. Cohen, A. W.

Labrador, R. A. Leske, R. A. Mewaldt, M. E. Wiedenbeck, E. C. Stone

Solar Phys., 2014, File

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

См. **детальные AIA фильмы**

http://sdowwww.lmsal.com/sdowmedia/ssw/ssw_client/data/ssw_service_110510_204952_46340/www/

Grechnev, Stepanov_conf_13, Presentation

Grechnev, CESRA-13, Presentation

Grechnev, PASJ paper eruptive-view, 2013

Grechnev, NOBE-12, Presentation

Grechnev, FIAN-11, presentation

Characterization of the Early Dynamics of Solar Coronal Bright Fronts

Mohamed **Nedal**, [Kamen Kozarev](#), [Rositsa Miteva](#), [Oleg Stepanyuk](#), [Momchil Dechev](#)

Bulgarian Astronomical Journal **2024**

<https://arxiv.org/pdf/2404.03396.pdf>

The Impulsive Acceleration of a Solar Filament Eruption Associated with a B-class Flare

Xinyue **Wang**¹, Hongqiang Song¹, Yao Chen^{1,2}, Leping Li³, Zhenyong Hou⁴, and Ruisheng Zheng¹

2023 ApJ 957 58

<https://iopscience.iop.org/article/10.3847/1538-4357/acff5d/pdf>

Observational Characteristics of solar EUV waves

Review

[Ramesh Chandra](#), [Pooja Devi](#), [P. F. Chen](#), [Brigitte Schmieder](#), [Reetika Joshi](#), [Bhuvan Joshi](#), [Arun Kumar Awasthi](#)

3rd BINA workshop proceeding **2023**

<https://arxiv.org/pdf/2310.12844.pdf>

Multi-Scale Image Preprocessing and Feature Tracking for Remote CME Characterization

Oleg Stepanyuk, [Kamen Kozarev](#), [Mohamed Nedal](#)

Journal of Space Weather and Space Climate 2022

<https://arxiv.org/pdf/2205.15088.pdf>

A Multi-Event Study of Early-Stage SEP Acceleration by CME-Driven Shocks -- Sun to 1 AU

Kamen Kozarev, [Mohamed Nedal](#), [Rositsa Miteva](#), [Momchil Dechev](#), [Pietro Zucca](#)

Frontiers in Astronomy and Space Sciences 2022

<https://arxiv.org/pdf/2202.06013.pdf>

Finding the critical decay index in solar prominence eruptions

N. [Vasantharaju](#), [P. Vemareddy](#), [B. Ravindra](#), [V. H. Doddamani](#)

ApJ 2019

<https://arxiv.org/pdf/1909.10442.pdf>

A Study of a long duration B9 flare-CME event and associated piston-driven shock

R. [Chandra](#), [P. F. Chen](#), [A. Fulara](#), [A. K. Srivastava](#), [W. Uddin](#)

Adv. Space Research 2017

<https://arxiv.org/pdf/1710.08734.pdf>

The Coronal Analysis of SHocks and Waves (CASHew) Framework

K. [Kozarev](#), [A. Davey](#), [A. Kendrick](#), [M. Hammer](#), [C. Keith](#)

Journal of Space Weather and Space Climate (SWSC) 2017

<https://arxiv.org/pdf/1710.05302.pdf>

A Data-Driven Analytic Model for Proton Acceleration by Large-Scale Solar Coronal Shocks

Kamen A. [Kozarev](#), Nathan A. Schwadron

ApJ 2016

<http://arxiv.org/pdf/1608.00240v1.pdf>

Can a Fast-mode EUV Wave Generate a Stationary Front?

P. F. [Chen](#), C. Fang, R. [Chandra](#), A. K. [Srivastava](#)

Solar Physics 2016

<http://arxiv.org/pdf/1604.07982v1.pdf>

Peculiar Stationary EUV Wave Fronts in the eruption on 2011 May 11

R. [Chandra](#), P. F. [Chen](#), A. [Fulara](#), A. K. [Srivastava](#), W. [Uddin](#)

ApJ 2016

<http://arxiv.org/pdf/1602.08693v1.pdf>

Responsibility of a Filament Eruption for the Initiation of a Flare, CME, and Blast Wave, and its Possible Transformation into a Bow Shock

V. V. [Grechnev](#) (1), A. M. [Uralov](#) (1), I. V. [Kuzmenko](#) (2), A. A. [Kochanov](#) (1), I. M. [Chertok](#) (3), S. [Kalashnikov](#)

Solar Phys., 290, 129 – 158, 2015

<http://arxiv.org/pdf/1410.8696v1.pdf>

Properties of a Coronal Shock Wave as A Driver of Early SEP Acceleration

Kamen A. [Kozarev](#), John C. Raymond, Vasili V. Lobzin, Michael Hammer

ApJ, 2014

<http://arxiv.org/pdf/1406.2363v1.pdf>

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections

N. [Gopalswamy](#), H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. [Srivastava](#), N. C.

Joshi, R. [Chandra](#), P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. [Awasthi](#),

N. V. Nitta, M. J. Aschwanden, D. P. Choudhary

E-print, Jan 2013; *Adv. Space Res.*, **51** (2013) 1981–1989

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

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

May 13

Analysis of large deflections of prominence-CME events during the rising phase of solar cycle 24

[M.V. Sieyra](#), [M. Cécere](#), [H. Cremades](#), [F.A. Iglesias](#), [A. Sahade](#), [M. Mierla](#), [G. Stenborg](#), [A. Costa](#), [M. West](#), [E. D'Huys](#)

2020

<https://arxiv.org/pdf/2007.14317.pdf>

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

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

Early-stage Solar Energetic Particle Acceleration by Coronal Mass Ejection-driven Shocks with Realistic Seed Spectra. I. Low Corona

Kamen A. [Kozarev](#)¹, Maher A. [Dayeh](#)^{2,3}, and Ashraf [Farahat](#)⁴

2019 *ApJ* **871** 65

sci-hub.tw/10.3847/1538-4357/aaf1ce

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures

Edward M.B. [Thiemann](#), Francis G. [Eparvier](#) and Thomas N. [Woods](#)

J. Space Weather Space Clim. 2017, **7**, A36

<https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170050.pdf>

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures

Edward M.B. [Thiemann](#), Francis G. [Eparvier](#), Thomas N. [Woods](#)

Journal of Space Weather and Space Climate 2017

<https://arxiv.org/pdf/1703.02995.pdf>

Statistical Analysis of the Horizontal Divergent Flow in Emerging Solar Active Regions

Shin [Toriumi](#), Keiji [Hayashi](#), Takaaki [Yokoyama](#)

ApJ, 2014

<http://arxiv.org/pdf/1408.2383v1.pdf>

May 16

The Evolution of the EM Distribution in the Core of an Active Region

Giulio [Del Zanna](#), Durgesh [Tripathi](#), Helen [Mason](#), Srividya [Subramanian](#), Brendan [O'Dwyer](#)

A&A, 2014

<http://arxiv.org/pdf/1411.0128v1.pdf>

16-18 May

Prominence instability and CMEs triggered by massive coronal rain in the solar atmosphere

Z. Vashalomidze (1, 2 and 3), [T. V. Zaqarashvili](#) (1, 2 and 3), [V. Kukhianidze](#) (2 and 3), [G. Ramishvili](#) (2 and 3), [A. Hanslmeier](#) (1), [P. Gomory](#) (4)
A&A 2021
<https://arxiv.org/pdf/2110.01287.pdf>

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

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

May 19

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

19-22 May

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

May 20

The Coronal Mass Ejection Visibility Function of Modern Coronagraphs
[Angelos Vourlidas](#), [L. A. Balmaceda](#), [H. Xie](#), [O. C. St. Cyr](#)
ApJ 2020
<https://arxiv.org/ftp/arxiv/papers/2008/2008.03348.pdf>

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

May 21

Investigating the differential emission measure and energetics of microflares with combined SDO/AIA and RHESSI observations
A. R. [Inglis](#), S. [Christe](#)
2014, ApJ
<http://arxiv.org/pdf/1405.5262v1.pdf>

May 25, ~ Disk eruptions at 193 Å

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations

Richard A. [Harrison](#), [Jackie A. Davies](#), [David Barnes](#), [Christian Möstl](#)
Space Weather 2023
<https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf>

Observational Study of an Earth-affecting Problematic ICME from STEREO
Yutian [Chi](#)¹, Jie [Zhang](#)^{2,3}, Chenglong [Shen](#)^{1,4}, Phillip [Hess](#)⁵, Lijuan [Liu](#)⁶, Wageesh [Mishra](#)¹, and Yuming [Wang](#)^{1,7}
2018 ApJ 863 108
<http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/1538-4357/aacf44/meta>

Magnetism and the Invisible Man: The mysteries of coronal cavities

Review

Sarah Gibson

IAU 300, eds. Schmieder, Malherbe, and Wu, 2014 (2017)

<https://arxiv.org/pdf/1711.09254.pdf>

A STEREO Survey of Magnetic Cloud Coronal Mass Ejections Observed at Earth in 2008--2012

Brian E. Wood, Chin-Chun Wu, Ronald P. Lepping, Teresa Nieves-Chinchilla, Russell A.

Howard, Mark G. Linton, Dennis G. Socker

Astrophysical Journal Supplement 2017 File

<https://arxiv.org/pdf/1701.01682v1.pdf>

25-28 May

Observational Study of an Earth-affecting Problematic ICME from STEREO

Yutian Chi¹, Jie Zhang^{2,3}, Chenglong Shen^{1,4}, Phillip Hess⁵, Lijuan Liu⁶, Wageesh Mishra¹, and Yuming Wang^{1,7}

2018 ApJ 863 108

<http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/1538-4357/aacf44/meta>

Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures

Nariaki V. Nitta, Tamitha Mulligan

Solar Physics September 2017, 292:125 File

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

Possible Cool Prominence Materials Detected within Interplanetary Small Magnetic Flux Ropes

J. M. Wang^{1,2}, H. Q. Feng¹, H. B. Li¹, A. K. Zhao¹, Z. J. Tian¹, G. Q. Zhao¹, Y. Zhao¹, and Q. Liu¹

2019 ApJ 876 57

sci-hub.sc/10.3847/1538-4357/ab148b

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

May 29, ~10:30, ~21 –strong SE eruptions, large CMEs; см. STEREO-B

Region 11226 produced a long duration M1.4/1F event peaking at 10:38 UTC. This event was associated with a large CME off the east limb. While both STEREO A and B observed this as a full halo CME, the CME apparently didn't even become a partial halo CME in LASCO images.

Weak Bidirectional Outflows and Flare Current Sheet in a Solar Coronal Jet Driven by the Eruption of a Minifilament

Jiayan Yang¹, Junchao Hong¹, Bo Yang¹, Yi Bi¹, and Zhe Xu¹

2023 ApJ 942 86

<https://iopscience.iop.org/article/10.3847/1538-4357/aca66f/pdf>

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics

Markus J. Aschwanden

ApJ 2016

<http://arxiv.org/pdf/1605.04952v1.pdf> File

http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

May 30

Coronal Quasi-periodic Fast-mode Propagating Wave Trains

Review

Yuandeng Shen, Xinping Zhou, Yadan Duan, Zehao Tang, Chengrui Zhou, Song Tan

Solar Phys. 2022
<https://arxiv.org/pdf/2112.14959.pdf> File

Connecting 3D evolution of Coronal Mass Ejections to their Source Regions
[Satabdwa Majumdar](#), [Vaibhav Pant](#), [Ritesh Patel](#), [Dipankar Banerjee](#)
ApJ 2020
<https://arxiv.org/pdf/2007.00923.pdf>

Distinct propagating fast wave trains associated with flaring energy releases
[Ding Yuan](#)¹, [Yuandeng Shen](#)², [Yu Liu](#)², [V.M. Nakariakov](#)^{1, 3}, [Baolin Tan](#)⁴, and [Jing Huang](#)⁴
E-print, March 2013, A&A

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections
[N. Gopalswamy](#), [H. Xie](#), [P. Makela](#), [S. Yashiro](#), [S. Akiyama](#), [W. Uddin.](#), [A. K. Srivastava](#), [N. C. Joshi](#), [R. Chandra](#), [P. K. Manoharan](#), [K. Mahalakshmi](#), [V. C. Dwivedi](#), [R. Jain](#) and [A. K. Awasthi](#),
[N. V. Nitta](#), [M. J. Aschwanden](#), [D. P. Choudhary](#)
E-print, Jan 2013; Adv. Space Res.

OBSERVATIONAL STUDY OF THE QUASI-PERIODIC FAST-PROPAGATING MAGNETOSONIC WAVES AND THE ASSOCIATED FLARE ON 2011 MAY 30
[Yuandeng Shen](#)^{1,2} and [Yu Liu](#)
2012 ApJ 753 53
<https://iopscience.iop.org/article/10.1088/0004-637X/753/1/53/pdf>

May 31

The dynamical behaviour of a jet in an on-disk coronal hole observed with AIA/SDO
[K. Chandrashekhar](#), [R. J. Morton](#), [D. Banerjee](#), [G. R. Gupta](#)
E-print, Oct 2013; A&A
<http://arxiv.org/abs/1310.7853>

June-Nov 2011

Visibility of coronal mass ejections in SOHO/LASCO coronagraphs
[K. Bronarska](#), [G. Michalek](#), [S. Yashiro](#), [S. Akiyama](#)
[Advances in Space Research Volume 60, Issue 9](#), 1 November 2017, Pages 2108-2115
<http://sci-hub.cc/10.1016/j.asr.2017.07.033>

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

Solar coronal magnetic field extrapolation from synchronic data with AI-generated farside
[Hyunjin Jeong](#), [Yong-Jae Moon](#), [Eunsu Park](#), [Harim Lee](#)
ApJ 2020
<https://arxiv.org/pdf/2010.07553.pdf>

Solar sources of interplanetary magnetic clouds leading to helicity prediction
[Roger K. Ulrich](#), [Pete Riley](#), [T. Tran](#)
Space Weather 2018
<https://arxiv.org/ftp/arxiv/papers/1811/1811.03560.pdf>

OBSERVATIONS FROM SDO, HINODE, AND STEREO OF A TWISTING AND WRITHING START TO A SOLAR-FILAMENT-ERUPTION CASCADE
[Alphonse C. Sterling](#)^{1,3}, [Ronald L. Moore](#)¹, and [Hirohisa Hara](#)
2012 ApJ 761 69

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

A magnetic cloud prediction model for forecasting space weather relevant properties of Earth-directed coronal mass ejections

Sanchita Pal, [Dibyendu Nandy](#), [Emilia K J Kilpua](#)

A&A 2022

<https://arxiv.org/pdf/2203.05231.pdf>

CMEs in the Heliosphere: III. A Statistical Analysis of the Kinematic Properties Derived from Stereoscopic Geometrical Modelling Techniques Applied to CMEs Detected in the Heliosphere from 2008 to 2014 by STEREO/HI-1

D. Barnes, [J. A. Davies](#), [R. A. Harrison](#), [J. P. Byrne](#), [C. H. Perry](#), [V. Bothmer](#), [J. P. Eastwood](#), [P. T. Gallagher](#), [E. K. J. Kilpua](#), [C. Möstl](#), [L. Rodriguez](#), [A. P. Rouillard](#), [D. Odstrcil](#)

Solar Phys. 2020

<https://arxiv.org/pdf/2006.14879.pdf>

On the Shock Source of Sustained Gamma-Ray Emission from the Sun

N Gopalswamy, [P. Makela](#), [S. Yashiro](#), [A. Lara](#), [S. Akiyama](#), [H. Xie](#)

18th International Astrophysics Conference, Pasadena, CA, February 18 to 22, 2019 2019

<https://arxiv.org/ftp/arxiv/papers/1907/1907.13318.pdf> File

Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles

G. A. de Nolfo, [A. Bruno](#), [J. M. Ryan](#), [S. Dalla](#), [J. Giacalone](#), [I. G. Richardson](#), [E. R. Christian](#), [S. J. Stochaj](#), [G. A. Bazilevskaya](#), [M. Boezio](#), [M. Martucci](#), [V. V. Mikhailov](#), [R. Munini](#)

ApJ 2019

<https://arxiv.org/pdf/1905.12878.pdf> File

Magnetic Flux Reconnection in Flaring Active Regions with Sustained Gamma-Ray Emission

S. W. Kahler¹, E. W. Cliver², and M. Kazachenko³

2018 ApJ 868 81

sci-hub.tw/10.3847/1538-4357/aae9d8

Solar sources of interplanetary magnetic clouds leading to helicity prediction

Roger K. Ulrich, [Pete Riley](#), [T. Tran](#)

Space Weather 2018

<https://arxiv.org/ftp/arxiv/papers/1811/1811.03560.pdf>

Fermi, Wind, and SOHO Observations of Sustained Gamma-Ray Emission from the Sun

N. Gopalswamy⁽¹⁾, P. Mäkelä^(1,2), S. Yashiro^(1,2), A. Lara^(1,2,3), H. Xie^(1,2), S. Akiyama^(1,2), R. J. MacDowall⁽¹⁾

URSI AP-RASC 2019, New Delhi, India, 09 - 15 March 2019

<https://sci-hub.ru/10.23919/URSIAP-RASC.2019.8738168>

<https://arxiv.org/ftp/arxiv/papers/1810/1810.08958.pdf>

Statistics of coronal dimmings associated with coronal mass ejections.

II. Relationship between coronal dimmings and their associated CMEs

Karin Dissauer, [Astrid M. Veronig](#), [Manuela Temmer](#), [Tatiana Podladchikova](#)

ApJ 2018

<https://arxiv.org/pdf/1810.01589.pdf>

Characteristics of Sustained >100 γ -ray Emission Associated with Solar Flares

G. H. Share, R. J. Murphy, A. K. Tolbert, B. R. Dennis, S. M. White, R. A. Schwartz, and A. J. Tylka

ApJ Supplement 2017

http://www.astro.umd.edu/~share/publications/share_2017.pdf File

Determining the Intrinsic CME Flux Rope Type Using Remote-sensing Solar Disk Observations
E. Palmerio, E. K. J. Kilpua, A. W. James, L. M. Green, J. Pomoell, A. Isavnin, G. Valori
Solar Physics February 2017, 292:39

A STEREO Survey of Magnetic Cloud Coronal Mass Ejections Observed at Earth in 2008--2012
Brian E. Wood, Chin-Chun Wu, Ronald P. Lepping, Teresa Nieves-Chinchilla, Russell A. Howard, Mark G. Linton, Dennis G. Socker
Astrophysical Journal Supplement 2017 File
<https://arxiv.org/pdf/1701.01682v1.pdf>

Cluster of solar active regions and onset of coronal mass ejections.

Wang J X, Zhang Y Z, He H, et al.

SCIENCE CHINA Physics, Mechanics & Astronomy (Sci China-Phys Mech Astron), 2015, 58(9): 599601 File

<http://link.springer.com/journal/11433/58/9/page/1>

<http://phys.scichina.com:8083/sciGe/EN/article/showFieldArticle.do?fieldId=81>

Coexisting fast and slow propagating waves of the extreme-UV intensity in solar coronal plasma structures*

Yuzong Zhang¹, Jun Zhang¹, Jingxiu Wang¹ and Valery M. Nakariakov

A&A 581, A78 (2015)

Observation of solar high energy gamma and X-ray emission and solar energetic particles

Alexei Struminsky, Weiqun Gan

24th European Cosmic Ray Symposium, Kiel, September 2014, 2015

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

Harim Lee¹, Y.-J. Moon¹, and V. M. Nakariakov

2015 ApJ 803 L7

http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/2041-8205_803_1_L7.pdf

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

Janusz Nicewicz, , Grzegorz Michalek

Advances in Space Research, 2014

Quantitative Comparison of Methods for Predicting the Arrival of Coronal Mass Ejections at Earth based on multi-view imaging†

R. C. Colaninno*, A. Vourlidas, C. C. Wu

Journal of Geophysical Research: Space Physics, Nov 2013; File

<http://arxiv.org/pdf/1310.6680v2.pdf>

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES

M. Ackermann², M. Ajello³, A. Albert⁴, A. Allafort^{5,1}, L. Baldini⁶, G. Barbiellini^{7,8}, D. Bastieri et al.

Fermi-LAT collaboration

E-print, April 2013, File; ApJ

3 June

Unusual Solar Radio Burst Observed at Decameter Wavelengths

V. N. Melnik, A. I. Brazhenko, A. A. Konovalenko, H. O. Rucker, A. V. Frantsuzenko, V. V. Dorovskyy, M. Panchenko, A. A. Stanislavskyy

Solar Phys., 2013

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

Searching for neutrinos from solar flares across solar cycles 23 and 24 with the Super-Kamiokande detector as a **Review**

K. Okamoto, K. Abe, Y. Hayato, K. Hiraide, K. Hosokawa, K. Ieki, M. Ikeda, J. Kameda,++++++
ApJ 2022
<https://arxiv.org/pdf/2210.12948.pdf>

A magnetic cloud prediction model for forecasting space weather relevant properties of Earth-directed coronal mass ejections

Sanchita Pal, Dibyendu Nandy, Emilia K J Kilpua
A&A 2022
<https://arxiv.org/pdf/2203.05231.pdf>

Visibility and Origin of Compact Interplanetary Radio Type IV Bursts

Nasrin Talebpour Sheshvan, Silja Pohjolainen
Solar Phys. 2018
<https://arxiv.org/pdf/1810.09208.pdf>

Database of episode-integrated solar energetic proton fluences

Zachary D. Robinson^{1*}, James H. Adams Jr.², Michael A. Xapsos³ and Craig A. Stauffer
J. Space Weather Space Clim. 2018, 8, A24
<https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170061.pdf>

Searching for Extreme SEP Events with STEREO,

Cohen, C. M. S., J. G. Luhmann, R. A. Mewaldt, M. L. Mays, H. M. Bain, Y. Li, and C. O. Lee
(2017), **Proceedings of 35th ICRC Conference, PoS(ICRC2017)**, id.134, 1–8.
<https://pos.sissa.it/301/134/pdf>

New Probabilistic Model For Episode Integrated Fluences of Protons Using Episodes From 1973-2013

Zachary D. Robinson
Thesis (2015) 2017
<https://arxiv.org/pdf/1711.04391.pdf>

The radial speed-expansion speed relation for Earth-directed CMEs

P. Mäkelä, N. Gopalswamy, S. Yashiro
Space Weather Volume 14, Issue 5 May 2016 Pages 368–378 File
<http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf>

The 4 June 2011 neutron event at Mercury: A defense of the solar origin hypothesis

David J. Lawrence, William C. Feldman, Patrick N. Peplowski, Sean C. Solomon
JGR Volume 120, Issue 7 July 2015 Pages 5284–5289

A Simple Way to Estimate the Soft X-ray Class of Far-Side Solar Flares Observed with STEREO/EUVI

I.M. Chertok (1), A.V. Belov (1), V.V. Grechnev (2)
Solar Phys. 2015

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

Harim Lee¹, Y.-J. Moon¹, and V. M. Nakariakov
2015 **ApJ** 803 L7

http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/2041-8205_803_1_L7.pdf

Misidentification of the source of a neutron transient detected by MESSENGER on 2011 June 4†
Gerald H. Share^{1,*}, **Ronald J. Murphy**², **Allan J. Tylka**³, **Brian R. Dennis**⁴ and **James M. Ryan**
JGR, 2015

<http://onlinelibrary.wiley.com/doi/10.1002/2014JA020663/pdf>

Comment on "Detection and characterization of 0.5--8 MeV neutrons near Mercury: Evidence for a solar origin"

Gerald H. Share, **Ronald J. Murphy**, **Allan J. Tylka**, **Brian R. Dennis**, and **James M. Ryan**
E-print, Sept 2014; **JGR**, 2014

<http://arxiv.org/pdf/1409.7725v1.pdf>

Detection and characterization of 0.5–8 MeV neutrons near Mercury: Evidence for a solar origin
David J. Lawrence¹, **William C. Feldman**², **John O. Goldsten**¹, **Patrick N. Peplowski**¹, **Douglas J. Rodgers**¹ and **Sean C. Solomon**³

JGR, Volume 119, Issue 7, pages 5150–5171, July 2014

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

Janusz Nicewicz, **Grzegorz Michalek**

Advances in Space Research, 2014

Quantitative Comparison of Methods for Predicting the Arrival of Coronal Mass Ejections at Earth based on multi-view imaging†

R. C. Colaninno^{*}, **A. Vourlidas**, **C. C. Wu**

Journal of Geophysical Research: Space Physics, Nov 2013; File

<http://arxiv.org/pdf/1310.6680v2.pdf>

Soft X-ray Fluxes of Major Flares Far Behind the Limb as Estimated Using STEREO EUV Images

N. V. Nitta, **M. J. Aschwanden**, **P. F. Boerner**, **S. L. Freeland**, **J. R. Lemen**, **J.-P. Wuelser**

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

Intense solar near-relativistic electron events at 0.3 AU

David Lario^{*}, **George C. Ho**, **Edmond C. Roelof**, **Brian J. Anderson**, **Haje Korth**

Journal of Geophysical Research: Space Physics, Volume 118, Issue 1, pages 63–73, January 2013

4-5 June

On the Role of Interplanetary Shocks in Accelerating MeV Electrons

N. Talebpour **Sheshvan**, [N. Dresing](#), [R. Vainio](#), [A. Afanasiev](#), [D. E. Morosan](#)

A&A 2023

<https://arxiv.org/pdf/2301.05587.pdf>

Geoeffective Properties of Solar Transients and Stream Interaction Regions

Review

E. K. J. Kilpua, **A. Balogh**, **R. von Steiger**, **Y. D. Liu**

Space Science Reviews Volume 212, **Issue 3–4**, pp 1271–1314 2017

<https://link.springer.com/content/pdf/10.1007%2Fs11214-017-0411-3.pdf>

5 June, 03-06:30 – NE эрупция волокна с большим потемнением на 304 A;

Reconstruction of the magnetic connection from Mercury to the solar corona during enhancements in the solar proton fluxes at Mercury

A. Ippolito^{1,2}, C. Plainaki¹, G. Zimbardo³, T. Alberti⁴, S. Massetti⁴, A. Milillo⁴ and S. Orsini⁴
A&A **660**, A50 (2022)

<https://www.aanda.org/articles/aa/pdf/2022/04/aa42328-21.pdf>

Does a solar filament barb always correspond to a prominence foot?

Y. Ouyang, P. F. Chen, S. Q. Fan, B. Li, A. A. Xu

ApJ 2020

<https://arxiv.org/pdf/2003.11976.pdf>

A Solar Energetic Particle Removal Algorithm for the Compact Coronagraph

Nicholas A. Crump, Dennis G. Socker, and Dennis Wang

2019 *Res. Notes AAS* **3** 183

<https://iopscience.iop.org/article/10.3847/2515-5172/ab5f14>

Long-Term Oscillations of Sunspots and a Special Class of Artifacts in SOHO(MDI) and SDO(HMI) Data

V.I. Efremov, A.A. Soloviev, L.D. Parfinenko, A. Riehoakainen, E. Kirichek, V.V. Smirnova, Y.N. Varun, I. Bakunina, I. Zhivanovich

2018

<https://arxiv.org/ftp/arxiv/papers/1802/1802.06379.pdf>

Properties of Decameter IIIb–III Pairs

V. N. Melnik, A. I. Brazhenko, A. V. Frantsuzenko, V. V. Dorovsky, H. O. Rucker

Solar Physics February 2018, **293**:26

<https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1234-9.pdf>

RELATIONSHIP BETWEEN DISTRIBUTION OF MAGNETIC DECAY INDEX AND FILAMENT ERUPTIONS

H. Li^{1,2}, Y. Liu¹, A. Elmhamdi³, and A.-S. Kordi³

2016 *ApJ* **830** 132

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

Structures of Interplanetary Magnetic Flux Ropes and Comparison with Their Solar Sources

Qiang Hu, Jiong Qiu, B. Dasgupta, A. Khare, and G. M. Webb

ApJ, 2014; File

https://dl.dropboxusercontent.com/u/96898685/ms_fr_v4.pdf

6 June, ~05:30 – NW значительная эрупция волокна с большим петлеобразным потемнением на 304 Å;

Почти одновременная SW небольшая эрупция в комплексе 226-227,

крупный SW CME, связанный с за лимбовой S эрупцией; см. STEREO-A

Saddle-shaped solar flare arcades

Juraj Lörinčík, Jaroslav Dudík, Guillaume Aulanier

ApJ 2021

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

Three case studies of height-time profiles of prominence eruptions observed by AIA and LASCO

Ts Tsvetkov N.Petrov

Journal of Atmospheric and Solar-Terrestrial Physics

Volume 177, October 2018, Pages 29-37

<http://sci-hub.tw/10.1016/j.jastp.2018.05.013>

ERUPTION OF A SOLAR FILAMENT CONSISTING OF TWO THREADS

Yi Bi (毕以), Yunchun Jiang (姜云春), Haidong Li (李海东), Junchao Hong (洪俊超), and Ruisheng Zheng
2012 ApJ 758 42

7 June – 07:16– M2.5 вспышка; **пересвет** на STEREO-B, $B=18*2/299=0.12$

! 7 June, 06:45 - Region 11226 produced a **M2.5 proton flare** at 06:41 UTC. **Prolonged gamma**
The event was associated with a large and fast CME

SDO/AIA - **Кроме** корональной волны, **распростирающееся потемнение из-за**
эруптивовавшего вещества видно не только на 304 Å, но и в умеренно
высокотемпературных корональных каналах.. See Events

The CME associated with M2.5 event was spectacular in SDO images. Some of the dark ejecta at the outer edges of the CME failed to escape and fell back over a large area of the solar disk.

Здесь, кроме прочего, в явном виде в нескольких каналах (не только на 304 Å) виден сильный разлет первоначально совсем небольшого волокна и затем мультифрагментарное высыпание из него вещества в весьма удаленные районы. Интересно посмотреть как это отразилось на радиопрофилях в дм- и см- диапазонах. Вместе с тем, внутри CME наблюдалось (в том числе на STEREO-A,B, <http://stereo-ssc.nascom.nasa.gov/browse/2011/06/07/>) очень ярко светящееся вещество эруптивовавшей части волокна в виде двух столбов, соединенных менее яркой вершиной.

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

Григорьева Plasma-2022

The Hyper-inflation Stage in the Coronal Mass Ejection Formation: A Missing Link That Connects Flares, Coronal Mass Ejections, and Shocks in the Low Corona

Laura A. Balmaceda^{1,2}, Angelos Vourlidas³, Guillermo Stenborg³, and Ryun-Young Kwon⁴
2022 ApJ 931 141

<https://iopscience.iop.org/article/10.3847/1538-4357/ac695c/pdf>

Multi-Scale Image Preprocessing and Feature Tracking for Remote CME Characterization

Oleg Stepanyuk, [Kamen Kozarev](#), [Mohamed Nedal](#)

Journal of Space Weather and Space Climate 2022

<https://arxiv.org/pdf/2205.15088.pdf>

Remote Sensing of Coronal Forces During a Solar Prominence Eruption

[V. M. Uritsky](#), [B. J. Thompson](#), [C. R. DeVore](#)

ApJ 2022

<https://arxiv.org/pdf/2205.02344.pdf>

Attention-based machine vision models and techniques for solar wind speed forecasting using solar EUV images

Edward J. E. Brown, [Filip Svoboda](#), [Nigel P. Meredith](#), [Nicholas Lane](#), [Richard B. Horne](#)

Space Weather e2021SW002976 2022

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2021SW002976>

<https://doi.org/10.1029/2021SW002976>

АНАЛИЗ ЭРУПТИВНОГО СОБЫТИЯ ПОСЛЕ СОЛНЕЧНОЙ ВСПЫШКИ 7 ИЮНЯ 2011 ГОДА

КУПРЯКОВ Ю. А.*1,2, ГОРШКОВ А. Б.2, КОТРЧ П.1, КАШАПОВА Л. К.3
АЖ Том: 98Номер: 10 Год: 2021 Страницы: 873-880
DOI: [10.31857/S0004629921100194](https://doi.org/10.31857/S0004629921100194)

The Common Origin of High-energy Protons in Solar Energetic Particle Events and Sustained Gamma-ray Emission from the Sun

N. Gopalswamy, [S. Yashiro](#), [P. Makela](#), [H. Xie](#), [S. Akiyama](#)

ApJ 2021

<https://arxiv.org/ftp/arxiv/papers/2105/2105.01206.pdf>

Sun-to-Earth Observations and Characteristics of Isolated Earth-Impacting Interplanetary Coronal Mass Ejections During 2008 – 2014

D. Maričić, [B. Vršnak](#), [A. M. Veronig](#), [M. Dumbović](#), [F. Šterc](#), [D. Roša](#), [M. Karlica](#), [D. Hržina](#) & [I. Romštajn](#)

Solar Physics volume 295, Article number: 91 (2020)

<https://link.springer.com/content/pdf/10.1007/s11207-020-01658-4.pdf>

Studying Magnetic Field Variations Accompanying the 2011 June 7 Eruptive Event, by Using Nonlinear Force-Free Field Modeling

Y. I. Egorov, [V. G. Fainshtein](#), [I. I. Myshyakov](#), [S. A. Anfinogentov](#)...

Solar Physics volume 295, Article number: 52 (2020)

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Radio, EUV, and X-Ray Observations during a Filament Rise in the 2011 June 7 Solar Flare
Marian [Karlický](#)¹, Jana [Kašparová](#)¹, and Robert [Sych](#)²

2020 ApJ 888 18

<https://doi.org/10.3847/1538-4357/ab5801>

Observation of all pre- and post-reconnection structures involved in three-dimensional reconnection geometries in solar eruptions

Jaroslav [Dudík](#), [Juraj Lorincik](#), [Guillaume Aulanier](#), [Alena Zemanova](#), [Brigitte Schmieder](#)

ApJ 2019

<https://arxiv.org/pdf/1910.08620.pdf>

Особенности развития длительных потоков высокоэнергичного гамма-излучения на разных стадиях солнечных вспышек.

[Минасянц Г.С.](#), [Минасянц Т.М.](#), [Томозов В.М.](#)

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Peng [Zou](#), [Chaowei Jiang](#), [Fengsi Wei](#), [Pingbing Zuo](#), [Yi Wang](#)

ApJ 2019

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On the Shock Source of Sustained Gamma-Ray Emission from the Sun

N [Gopalswamy](#), [P. Makela](#), [S. Yashiro](#), [A. Lara](#), [S. Akiyama](#), [H. Xie](#)

18th International Astrophysics Conference, Pasadena, CA, February 18 to 22, 2019

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Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles

G. A. [de Nolfo](#), [A. Bruno](#), [J. M. Ryan](#), [S. Dalla](#), [J. Giacalone](#), [I. G. Richardson](#), [E. R. Christian](#), [S. J. Stochaj](#), [G. A. Bazilevskaya](#), [M. Boezio](#), [M. Martucci](#), [V. V. Mikhailov](#), [R. Munini](#)

ApJ 2019

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Early-stage Solar Energetic Particle Acceleration by Coronal Mass Ejection-driven Shocks with Realistic Seed Spectra. I. Low Corona
Kamen A. Kozarev¹, **Maheer A. Dayeh**^{2,3}, and **Ashraf Farahat**⁴
2019 *ApJ* **871** 65
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**Егоров Я.И., Файнштейн В.Г., Мышьяков И.И., Анфиногентов С.А.,
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N. Gopalswamy(1), **P. Mäkelä**(1,2), **S. Yashiro**(1,2), **A. Lara**(1,2,3), **H. Xie**(1,2), **S. Akiyama**(1,2), **R. J. MacDowall**(1)
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Ervin Kafexhiu¹, **Carlo Romoli**^{1,2}, **Andrew M. Taylor**³, and **Felix Aharonian**
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Andrew Hillier
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Magnetic Structure of Solar Flare Regions Producing Hard X-Ray Pulsations
I.V. Zimovets, **R. Wang**, **Y.D. Liu**, **C.C. Wang**, **S.A. Kuznetsov**, **I.N. Sharykin**, **A.B. Struminsky**, **V.M. Nakariakov**
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Jack Ireland, **Andrew R. Inglis**, **Albert Y. Shih**, **Steven Christe**, **Stuart J. Mumford**, **Laura A. Hayes**, **Barbara J. Thompson**, **V. Keith Hughitt**
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K. Kozarev, A. Davey, A. Kendrick, M. Hammer, C. Keith

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Magnetic Structure and Electric Currents in Solar Flare Regions Producing Hard X-Ray Pulsations

I.V. Zimovets, R. Wang, Y.D. Liu, C.C. Wang, S.A. Kuznetsov, I.N. Sharykin, A.B.

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A Lasso Model for Solar Gamma-Ray Events

Hugh Hudson

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Characterizing Solar Energetic Particle Event Profiles with Two-Parameter Fits

Stephen W. Kahler, Alan G. Ling

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Solar Energetic Particle Events with Protons Above 500 MeV Between 1995 and 2015 Measured with SOHO/EPHIN

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Bright hot impacts by erupted fragments falling back on the Sun: magnetic channelling

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Flux cancellation and the evolution of the eruptive filament of 2011 June 7
S. L. [Yardley](#), L. M. [Green](#), D. R. [Williams](#), L. van [Driel-Gesztelyi](#), G. [Valori](#), S. [Dacie](#)
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ВАРИАЦИИ МАГНИТНОГО ПОЛЯ, СОПРОВОЖДАЮЩИЕ
ВОЗНИКНОВЕНИЕ КВМ, СВЯЗАННОГО С ЭРУПЦИЕЙ ВОЛОКНА
[Файнштейн В.Г.](#), [Егоров Я.И.](#), [Руденко Г.В.](#), [Анфиногентов С.А.](#)
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[V.G. Fainshtein](#), [Ya.I. Egorov](#), [G.V. Rudenko](#), [S.A. Anfinogentov](#)
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СОЛНЕЧНЫЕ ПРОТОННЫЕ СОБЫТИЯ В КОНЦЕ 23-ГО И НАЧАЛЕ 24-ГО СОЛНЕЧНЫХ ЦИКЛОВ, ЗАРЕГИСТРИРОВАННЫЕ В ЭКСПЕРИМЕНТЕ ПАМЕЛА
Базилевская Г.А., Майоров А.Г., Малахов В.В., Михайлов В.В., Адриани О., Барбарини Д.С., Белотти Р., Боецио М., Богомолов Э.А., Бонвичини В., Бонджи М., Бонеки Л., Борисов С.В., Ботгаи С., Бруно А., Вакки А., Вануччини Е., Васильев Г.И., Воронов С.А., Ву Ю. и др.
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Measurement by FIB on the ISS: Two Emissions of Solar Neutrons Detected?
Y. Muraki,¹ K. Koga,² T. Goka,^{2,3} H. Matsumoto,² T. Obara,^{2,4} O. Okudaira,² S. Shibata,⁵ and T. Yamamoto
Advances in Astronomy, Volume 2012 (2012), Article ID 379304, 14 pages
<http://www.hindawi.com/journals/aa/2012/379304/>

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES

M. Ackermann², M. Ajello³, A. Albert⁴, A. Allafort^{5,1}, L. Baldini⁶, G. Barbiellini^{7,8}, D. Bastieri et al.

Fermi-LAT collaboration

E-print, April 2013, File; ApJ

MASS ESTIMATES OF RAPIDLY MOVING PROMINENCE MATERIAL FROM HIGH-CADENCE EUV IMAGES

David R. Williams, Deborah Baker, and Lidia van Driel-Gesztelyi

2013 ApJ 764 165

Solar energetic particle events in 2006-2012 in the PAMELA experiment data

G A Bazilevskaya et al

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N. Gopalswamy

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VARIATIONS OF THE MUON FLUX AT SEA LEVEL ASSOCIATED WITH INTERPLANETARY ICMEs AND COROTATING INTERACTION REGIONS

C. R. A. Augusto¹, V. Kopenkin¹, C. E. Navia¹, K. H. Tsui¹, H. Shigueoka¹, A. C. Fauth², E.

Kemp², E. J. T. Manganote², M. A. Leigui de Oliveira³, P. Miranda⁴, R. Ticona⁴, and A. Velarde

2012 ApJ 759 143

Weighing a filament by its photoionisation shadow

Dave Williams, Deb Baker and Lidia van Driel-Gesztelyi

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<http://www.uksolphys.org/?p=5342>

Observations of Low Frequency Solar Radio Bursts from the Rosse Solar-Terrestrial Observatory

P. Zucca, E. P. Carley, J. McCauley, P. T. Gallagher, C. Monstein, R. T. J. McAteer

E-print, 4 April 2012, Solar Phys.

Break up of returning plasma after the 7 June 2011 filament eruption by Rayleigh-Taylor instabilities★

D. E. Innes¹, R. H. Cameron¹, L. Fletcher², B. Inhester¹ and S. K. Solanki¹

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SDO/AIA Observations of Secondary Waves Generated by Interaction of the 2011 June 7 Global EUV Wave With Solar Coronal Structures

Ting Li, Jun Zhang, Shuhong Yang, Wei Liu

E-print, 8 Nov 2011; ApJ, 746 13, 2012, File

Investigation of the Formation and Separation of An EUV Wave from the Expansion of A Coronal Mass Ejection

X. Cheng, J. Zhang, O. Olmedo, A. Vourlidas, M. D. Ding, and Y. Liu

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9 June

Automatic detection of white-light flare kernels in SDO/HMI intensitygrams

L. Mravcova (1), M. Svanda

New Astronomy 2017

<https://arxiv.org/pdf/1706.00988.pdf>

10 June

Plasma parameters in eruptive prominences from SDO/AIA observations

Kristopher McGlinchey and Nicolas Labrosse

UKSP Nuggets, 21, March 2012

<http://www.uksolphys.org/?p=4247>

12 June

Finding the critical decay index in solar prominence eruptions

N. Vasantharaju, P. Vemareddy, B. Ravindra, V. H. Doddamani

ApJ 2019

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13 June

Multiwavelength observations of a partial filament eruption on 13 June 2011

Yanjie Zhang, Qingmin Zhang, Jun Dai, Dong Li, Haisheng Ji

Solar Phys. 2022

<https://arxiv.org/pdf/2210.05919.pdf>

Internal structure of a coronal mass ejection revealed by Akatsuki radio occultation observations

H. Ando, D. Shiota, T. Imamura, M. Tokumaru, A. Asai, H. Isobe, M. Pätzold, B. Häusler,

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JGR Volume 120, Issue 7 July 2015 Pages 5318–5328

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

Janusz Nicewicz, , Grzegorz Michalek

Advances in Space Research, 2014

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

14 June, >07 – крупная эрупция SE волокна; крупный CME;

событие хорошо видно на STEREO-B

Comprehensive Characterization of the Dynamics of Two Coronal Mass Ejections in the Outer Corona.

Di **Lorenzo**, L., Balmaceda, L., Cremades, H. et al.

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<https://doi.org/10.1007/s11207-024-02290-2>

Predicting the Time-of-Arrival of Coronal Mass Ejections at Earth From Heliospheric Imaging Observations

Carlos Roberto Braga, Angelos Vourlidis, Guillermo Stenborg, Alisson Dal Lago, Rafael Rodrigues

Souza de Mendonça, Ezequiel Echer

JGR 2020

<https://arxiv.org/pdf/2008.09005.pdf>

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation

Nishtha Sachdeva

Ph.D. Thesis 2019

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Magnetism and the Invisible Man: The mysteries of coronal cavities

Sarah Gibson

Review

IAU 300, eds. Schmieder, Malherbe, and Wu, 2014 (2017)
<https://arxiv.org/pdf/1711.09254.pdf>

A STEREO Survey of Magnetic Cloud Coronal Mass Ejections Observed at Earth in 2008--2012
Brian E. Wood, Chin-Chun Wu, Ronald P. Lepping, Teresa Nieves-Chinchilla, Russell A. Howard, Mark G. Linton, Dennis G. Socker
Astrophysical Journal Supplement 2017 File
<https://arxiv.org/pdf/1701.01682v1.pdf>

14-21 June

Solar coronal magnetic field extrapolation from synchronic data with AI-generated farside
Hyunjin Jeong, Yong-Jae Moon, Eunsu Park, Harim Lee
ApJ 2020
<https://arxiv.org/pdf/2010.07553.pdf>

15 June

The visual complexity of coronal mass ejections follows the solar cycle
S. R. Jones, C. J. Scott, L. A. Barnard, R. Highfield, C. J. Lintott, E. Baeten
Space Weather e2020SW002556 2020
<https://doi.org/10.1029/2020SW002556>
<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002556>

16 June

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

Searching for rapid pulsations in solar flare X-ray data

Andrew R. Inglis, Laura A. Hayes
ApJ 2024
<https://arxiv.org/pdf/2406.07372>

Coronal cavities: observations and implications for the magnetic environment of prominences
Sarah E. Gibson
Solar Prominences, Astrophysics and Space Science Library, Volume 415. ISBN 978-3-319-10415-7.
Springer International Publishing Switzerland, 2015, p. 323
<https://arxiv.org/pdf/1702.02214.pdf>

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

16-17 June

Destabilization of a Solar Prominence/Filament Field System by a Series of Eight Homologous Eruptive Flares
Navdeep K. Panesar, Alphonse C. Sterling, Davina E. Innes, Ronald L. Moore
ApJ 2015
<http://arxiv.org/pdf/1508.01952v1.pdf>

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

17 June

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

The analysis of polar jet responses using images from the LASCO C2 and STEREO COR 2 coronagraphs

H.-S. Yu, B. V. Jackson, J. M. Clover, and A. Buffington

AIP Conf. Proc. 1539, 90 (2013); doi: 10.1063/1.4810997

http://smei.ucsd.edu/new_smei/PDFs/publications/pdf_public/2013_AIPC_1539_90_Yu.pdf

18 June

Magnetic topological analysis of coronal bright points

K. Galsgaard, [M. S. Madjarska](#), [F. Moreno-Insertis](#), [Z. Huang](#), [T. Wiegmann](#)

A&A 2017

<https://arxiv.org/pdf/1707.04174.pdf>

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

19 June, 16:30 – крупная SE эрупция, C1.5 LDE; крупный CME;

A partial halo CME was observed by LASCO beginning at 16:36 UTC following an event in region 11237.

Origins of Rolling, Twisting and Non-Radial Propagation of Eruptive Solar Events

[Olga Panasenco](#), [Sara F. Martin](#), [Marco Velli](#), [Angelos Vourlidas](#)

E-print, Dec 2012; Solar Phys., 2013, Volume 287, Issue 1-2, pp 391-413

20 June

The nonpotentiality of coronae of solar active regions, the dynamics of the surface magnetic field, and the potential for large flares

[C.J. Schrijver](#)

ApJ 2016

<http://arxiv.org/pdf/1602.07244v1.pdf>

20-22 June

Implementing the MULTI-VP coronal model in EUHFORIA: test case results and comparisons with the WSA coronal model

[Evangelia Samara](#), [Rui F. Pinto](#), [Jasmina Magdalenic](#), [Nicolas Wijsen](#), [Veronika Jercic](#), [Camilla Scolini](#), [Immanuel C. Jebaraj](#), [Luciano Rodriguez](#), [Stefaan Poedts](#)

A&A 2021

<https://arxiv.org/pdf/2102.06617.pdf>

!21 June, >~02 – крупная центральная эрупция в сапидной АО,

с крупным CME на **STEREO-A,B**; See Events

A halo CME was observed at LASCO after a C7 LDE in region 11236.

См. ICME модельный фильм на <http://www.spaceweather.com/> за 23 июня.

Tracing Field Lines That Are Reconnecting or Expanding or Both

[Jiong Qiu](#)

Frontiers in Astronomy and Space Sciences, vol. 11, id. 1401846,

2024

<https://doi.org/10.3389/fspas.2024.1401846>

<https://arxiv.org/pdf/2409.04573>

Evolution of Solar Eruptive Events: Investigating the Relationships among Magnetic Reconnection, Flare Energy Release, and Coronal Mass Ejections

Juliana T. [Vievering](#)¹, [Angelos Vourlidas](#)¹, [Chunming Zhu](#)², [Jiong Qiu](#)², and [Lindsay Glesener](#)³

2023 ApJ 946 81

<https://iopscience.iop.org/article/10.3847/1538-4357/acbe3d/pdf>

Characterizing ICME-related Forbush Decreases at Mercury using MESSENGER Observations: Identification of a One or Two-Step Structure

Emma E. Davies (1), [Réka M. Winslow](#) (1), [David J. Lawrence](#) (2)

ApJ 2022

<https://arxiv.org/pdf/2212.02707.pdf>

Investigating pre-eruptive magnetic properties at the footprints of erupting magnetic flux ropes

[Wensi Wang](#), [Jiong Qiu](#), [Rui Liu](#), [Chunming Zhu](#), [Kai E Yang](#), [Qiang Hu](#), [Yuming Wang](#)

ApJ 2022

<https://arxiv.org/pdf/2211.15909.pdf>

Characteristics of stripes-pattern radio-emission sources

[Alielden, Khaled](#)

MNRAS Volume 514, Issue 2, pp.2135-2144 2022

<https://doi.org/10.1093/mnras/stac1384>

<https://watermark.silverchair.com/stac1384.pdf>

CESRA #3386 2022 <https://www.astro.gla.ac.uk/users/eduard/cesra/?p=3386>

Magnetic Field and Density Models in the Zebra Source Region

L. V. Yasnov & [M. Karlický](#)

[Solar Physics](#) volume 297, Article number: 133 (2022)

<https://doi.org/10.1007/s11207-022-02067-5>

Simulations of solar radio zebras

M. Karlický

A&A 661, A56 (2022)

<https://doi.org/10.1051/0004-6361/202142497>

<https://www.aanda.org/articles/aa/pdf/2022/05/aa42497-21.pdf>

Tracking the 3D evolution of a halo coronal mass ejection using the revised cone model

[Q. M. Zhang](#)

A&A 2022

<https://arxiv.org/pdf/2202.10676.pdf>

On the Magnetoacoustic Waves and Physical Conditions in Zebra Radio Sources

L. V. Yasnov

[Solar Physics](#) volume 296, Article number: 139 (2021)

<https://link.springer.com/content/pdf/10.1007/s11207-021-01886-2.pdf>

<https://doi.org/10.1007/s11207-021-01886-2>

Magnetic Twists of Solar Filaments

[Jinhan Guo](#), [Yiwei Ni](#), [Ye Qiu](#), [Ze Zhong](#), [Yang Guo](#), [Pengfei Chen](#)

ApJ 2021

<https://arxiv.org/pdf/2107.02580.pdf>

Data-constrained Magnetohydrodynamic Simulation of a Long Duration Eruptive Flare

[Yang Guo](#), [Ze Zhong](#), [M. D. Ding](#), [P. F. Chen](#), [Chun Xia](#), [Rony Keppens](#)

ApJ 2021

<https://arxiv.org/pdf/2106.15080.pdf>

Recent Results on the Fine Structure in Cosmic Radio Emission

Book

Zebra Pattern in Solar and Pulsar Radio Emission
G.P. Chernov, V. Fomichev, S. Fainshtein
LAP LAMBERT Academic Publishing 2021 File

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

The Magnetic Flux Rope Structure of a Triangulated Solar Filament
Yang Guo¹, Yu Xu¹, M. D. Ding¹, P. F. Chen¹, Chun Xia², and Rony Keppens
2019 *ApJL* 884 L1
<https://doi.org/10.3847/2041-8213/ab4514>

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

Statistics of coronal dimmings associated with coronal mass ejections.
I. Characteristic dimming properties and flare association
Karin Dissauer, Astrid M. Veronig, Manuela Temmer, Tatiana Podladchikova, Kamalam Vanninathan
ApJ 2018
<https://arxiv.org/pdf/1807.05056.pdf>

Detection of Propagating Fast Sausage Waves through Detailed Analysis of a Zebra-pattern Fine Structure in a Solar Radio Burst
K. Kaneda¹, H. Misawa¹, K. Iwai², S. Masuda², F. Tsuchiya¹, Y. Katoh³, and T. Obara
2018 *ApJL* 855 L29
<http://sci-hub.tw/http://iopscience.iop.org/2041-8205/855/2/L29/>

Plasma diagnostics of coronal dimming events
Kamalam Vanninathan, Astrid M. Veronig, Karin Dissauer, Manuela Temmer
ApJ 2018
<https://arxiv.org/pdf/1802.06152.pdf>

Toward Understanding the 3D Structure and Evolution of Magnetic Flux Ropes in an Extremely Long Duration Eruptive Flare
Zhenjun Zhou, Jie Zhang⁴, Yuming Wang^{1,3}, Rui Liu^{1,5}, and Georgios Chintzoglou
2017 *ApJ* 851 133

Polarization Characteristics of Zebra Patterns in Type IV Solar Radio Bursts
K. Kaneda¹, H. Misawa¹, K. Iwai², F. Tsuchiya¹, T. Obara¹, Y. Katoh³, and S. Masuda⁴
2017 *ApJ* 842 45
<http://sci-hub.cc/10.3847/1538-4357/aa74c1>

Why does the apparent mass of a coronal mass ejection increase?
Li Feng, Yuming Wang, Fang Shen, Chenglong Shen, Bernd Inhester, Lei Lu, Weiqun Gan
ApJ 2015
<http://arxiv.org/pdf/1509.02246v1.pdf>

Frequency Dependence of Polarization of Zebra Pattern in Type-IV Solar Radio Bursts
Kazutaka Kaneda¹, H. Misawa¹, K. Iwai², F. Tsuchiya¹, and T. Obara
2015 *ApJ* 808 L45
<http://arxiv.org/ftp/arxiv/papers/1508/1508.02604.pdf>

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

Harim Lee¹, Y.-J. Moon¹, and V. M. Nakariakov

2015 ApJ 803 L7

http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/2041-8205_803_1_L7.pdf

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

Janusz Nicewicz, , Grzegorz Michalek

Advances in Space Research, 2014

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study[†]

H. Xie, O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades

JGR, 2013, File

CONTRACTING AND ERUPTING COMPONENTS OF SIGMOIDAL ACTIVE REGIONS

Rui Liu^{1,2}, Chang Liu², Tibor Török³, Yuming Wang¹, and Haimin Wang

2012 ApJ 757 150

What can we learn about solar coronal mass ejections, coronal dimmings, and Extreme-Ultraviolet jets through spectroscopic observations?

Hui Tian, Scott W. McIntosh, Lidong Xia, Jiansen He, Xin Wang

E-print, Jan 2012, File; ApJ

21-22 June

CME–HSS Interaction and Characteristics Tracked from Sun to Earth

Stephan G. Heinemann, Manuela Temmer, Charles J. Farrugia, Karin Dissauer, Christina Kay, Thomas Wiegmann, Mateja Dumbović, Astrid M. Veronig, Tatiana Podladchikova, Stefan J. Hofmeister, Noé Lugaz, Fernando Carcaboso

Solar Physics September 2019, 294:121

[sci-hub.se/10.1007/s11207-019-1515-6](https://doi.org/10.1007/s11207-019-1515-6)

<https://arxiv.org/pdf/1908.10161.pdf>

22-23 June

On the Physical Nature of the so-Called Prominence Tornadoes

Review

Stanislav Gunár, Nicolas Labrosse, Manuel Luna, Brigitte Schmieder, Petr Heinzel, Therese A. Kucera, Peter J. Levens, Arturo López Ariste, Duncan H. Mackay & Maciej Zapiór

Space Science Reviews volume 219, Article number: 33 (2023)

<https://link.springer.com/content/pdf/10.1007/s11214-023-00976-w.pdf>

SOLAR MAGNETIZED "TORNADOES:" RELATION TO FILAMENTS

Yang Su¹, Tongjiang Wang^{2,3}, Astrid Veronig¹, Manuela Temmer¹, and Weiqun Gan

2012 ApJ 756 L41

23 June

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations

Richard A. Harrison, Jackie A. Davies, David Barnes, Christian Möstl

Space Weather 2023

<https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf>

The radial speed-expansion speed relation for Earth-directed CMEs

P. Mäkelä, N. Gopalswamy, S. Yashiro

Space Weather Volume 14, Issue 5 May 2016 Pages 368–378 File

<http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf>

23-24 June

Atmospheric Response to of an Active Region to new Small Flux Emergence

D.L. Shelton, L.K. Harra, L.M. Green

Solar Phys. 2015

<http://arxiv.org/pdf/1412.5623v1.pdf>

24 June

Magnetism and the Invisible Man: The mysteries of coronal cavities

Review

Sarah Gibson

IAU 300, eds. Schmieder, Malherbe, and Wu, 2014

(2017)

<https://arxiv.org/pdf/1711.09254.pdf>

25 June

Coronal Electron Density Fluctuations Inferred from Akatsuki Spacecraft Radio Observations

D. Wexler, T. Imamura, A. Efimov, P. Song, L. Lukanina, H. Ando, E. Jensen, J. Vierinen & A. Coster

Solar Physics volume 295, Article number: 111 (2020)

<https://link.springer.com/content/pdf/10.1007/s11207-020-01677-1.pdf>

Active longitude and CME occurrences

N. Gyenge, T. Singh, T. S. Kiss, A. K. Srivastava, R. Erdélyi

2017

<https://arxiv.org/pdf/1702.06664.pdf>

29 June

Initiation of CMEs associated with filament eruption, and the nature of CME related shocks

V.G. Fainshtein, , Ya.I. Egorov

Advances in Space Research, Volume 55, Issue 3, 1 February 2015, Pages 798–807

<http://www.sciencedirect.com/science/article/pii/S027311771400310X>

29 June-1 July

Long-lived energetic particle source regions on the Sun

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

Journal of Physics: Conference Series 2015

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

1 July

Long-lived energetic particle source regions on the Sun

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

Journal of Physics: Conference Series 2015

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

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

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

2014

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

2 July

Structure and Evolution of Magnetic Fields Associated with Solar Eruptions (Invited Review)

Haimin Wang, Chang Liu

Research in Astronomy and Astrophysics, 2015
<http://arxiv.org/pdf/1412.8676v1.pdf> File

3 July, 00:20 – эрупция в NW квадранте, хорошая корональная волна

A small, possibly Earth directed CME was observed in STEREO imagery after a B9 event in region 11244 early in the day.

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

Why "solar tsunamis" rarely leave their imprints in the chromosphere

Ruisheng [Zheng](#), [Yihan Liu](#), [Wenlong Liu](#), [Bing Wang](#), [Zhenyong Hou](#), [Shiwei Feng](#), [Xiangliang Kong](#), [Zhenghua Huang](#), [Hongqiang Song](#), [Hui Tian](#), [Pengfei Chen](#), [Robertus Erdélyi](#), [Yao Chen](#)
ApJ 2023

<https://arxiv.org/pdf/2304.14859.pdf>

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations

Richard A. [Harrison](#), [Jackie A. Davies](#), [David Barnes](#), [Christian Möstl](#)
Space Weather 2023

<https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf>

CMEs in the Heliosphere: I. A Statistical Analysis of the Observational Properties of CMEs Detected in the Heliosphere from 2007 to 2017 by STEREO/HI-1

[R. A. Harrison](#), [J. A. Davies](#), [D. Barnes](#), [J. P. Byrne](#), [C. H. Perry](#), [V. Bothmer](#), [J. P. Eastwood](#), [P. T. Gallagher](#), [E. K. J. Kilpua](#), [C. Möstl](#), [L. Rodriguez](#), [A. P. Rouillard](#), [D. Odstrcil](#)
Solar Phys. 2018

<https://arxiv.org/ftp/arxiv/papers/1804/1804.02320.pdf>

Origin and Structures of Solar Eruptions I: Magnetic Flux Rope (Invited **Review**)

[X. Cheng](#), [Y. Guo](#), [M. D. Ding](#)
SCIENCE CHINA Earth Sciences 2017 File
<https://arxiv.org/pdf/1705.08198.pdf>

5 July

Association between tornadoes and hosting prominence instability

[Irakli Mghebrishvili](#), [Teimuraz V. Zaqarashvili](#), [Vasil Kukhianidze](#), [David Kuridze](#), [David Tsiklauri](#), [Bidzina M. Shergelashvili](#), [Stefaan Poedts](#)
ApJ 2018

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

Critical magnetic field strengths for solar coronal plumes in quiet regions and coronal holes?

[Ellis A. Avallone](#), [Sanjiv K. Tiwari](#), [Navdeep K. Tiwari](#), [Ronald L. Moore](#), [Amy Winebarger](#)
ApJ 2018
<https://arxiv.org/pdf/1805.11188.pdf>

A tiny event producing an interplanetary type III burst

[C. E. Alissandrakis](#), [A. Nindos](#), [S. Patsourakos](#), [A. Kontogeorgos](#), [P. Tsitsipis](#)
A&A 2015
<http://arxiv.org/pdf/1507.08423v1.pdf>

6 Jul

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

M.V. Sieyra, [S. Krishna Prasad](#), [G. Stenborg](#), [E. Khomenko](#), [T. Van Doorselaere](#), [A. Costa](#), [A. Esquivel](#), [J.M. Riedl](#)

A&A **667, A21** 2022

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

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

6-8 July

Long-lived energetic particle source regions on the Sun

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

Journal of Physics: Conference Series 2015

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

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

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

2014

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

7July

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

Bing Wang, Yao Chen, Jie Fu, [Bo Li](#), [Xing Li](#), [Wei Liu](#)

ApJL 2016

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

The nonpotentiality of coronae of solar active regions, the dynamics of the surface magnetic field, and the potential for large flares

C.J. Schrijver

ApJ 2016

<http://arxiv.org/pdf/1602.07244v1.pdf>

8 July – 09:53– C3.0 вспышка; **пересвет** на STEREO-B, $B=14*2/293=0,096$

12:03– C2.8 вспышка; **пересвет** на STEREO-B, $B=10*2/293=0,068$

15:16– C2.3 вспышка; **пересвет** на STEREO-B, $B=6*2/293=0,041$

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

H-альфа неполные данные см. на сайтах

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

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

Photospheric signatures of CME onset

[Aslam Ottupara](#), [David MacTaggart](#), [Tom Williams](#), [Lyndsay Fletcher](#), [Paolo Romano](#)

MNRAS **2024**

<https://arxiv.org/pdf/2409.07261>

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

Kyung-Eun Choi, [Dae-Young Lee](#), [Hee-Eun Wang](#), [Seunguk Lee](#), [Kyung-Chan Kim](#) & [Kyung Sun Park](#)

[Solar Physics](#) volume 296, Article number: 148 (2021)

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

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

Magnetic Twists of Solar Filaments

Jinhan Guo, [Yiwei Ni](#), [Ye Qiu](#), [Ze Zhong](#), [Yang Guo](#), [Pengfei Chen](#)

ApJ 2021
<https://arxiv.org/pdf/2107.02580.pdf>

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

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

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study†
H. Xie, O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades
JGR, 2013, File

8-12 July

The Merging of Two Stream Interaction Regions within 1 au: The Possible Role of Magnetic Reconnection
Zehao Wang^{1,2}, Jianpeng Guo^{3,4,5}, Xueshang Feng¹, Chaoxu Liu¹, Hui Huang³, Haibo Lin³, Chenming Tan⁵, Yihua Yan⁵, and Weixing Wan
2018 ApJL 869 L6
sci-hub.tw/10.3847/2041-8213/aaf398

9 July

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

Magnetism and the Invisible Man: The mysteries of coronal cavities Review
Sarah Gibson
IAU 300, eds. Schmieder, Malherbe, and Wu, 2014 (2017)
<https://arxiv.org/pdf/1711.09254.pdf>

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

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

A search for mode coupling in magnetic bright points
Arthur **Berberyan**, [Peter H. Keys](#), [David B. Jess](#), [Damian J. Christian](#)
A&A 2024
<https://arxiv.org/pdf/2409.11553>

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations
Richard A. **Harrison**, [Jackie A. Davies](#), [David Barnes](#), [Christian Möstl](#)

Space Weather 2023
<https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf>

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

V. A. Слемзин¹, Ф. Ф. Горяев¹, Д. Г. Родькин¹, Ю. С. Шугай², С. В. Кузин¹
2018 File

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS.
I. THE CASE FOR BLAST WAVES

T. A. Howard¹ and V. J. Pizzo
2016 *ApJ* 824 92 File

The radial speed-expansion speed relation for Earth-directed CMEs

P. Mäkelä, N. Gopalswamy, S. Yashiro
Space Weather Volume 14, Issue 5 May 2016 Pages 368–378 File
<http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf>

Hugh Hudson

RHESSI Science Nugget, 13 July 2011

http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Hard_X-rays_and_Sympathy

A hard X-ray spike elicits a sympathetic response.

13 July

THE SOURCE OF 3 MINUTE MAGNETOACOUSTIC OSCILLATIONS IN CORONAL FANS

**D. B. Jess¹, I. De Moortel², M. Mathioudakis¹, D. J. Christian³, K. P. Reardon^{1,4}, P. H. Keys¹, and
F. P. Keenan**
2012 *ApJ* 757 160

13-15 July

Long-lived energetic particle source regions on the Sun

R. Bucik, D. E. Innes, N.-H. Chen, G. M. Mason, R. Gomez-Herrero, M. E. Wiedenbeck
Journal of Physics: Conference Series 2015
<http://arxiv.org/pdf/1507.02840v1.pdf>

Heating Mechanisms for Intermittent Loops in Active Region Cores from AIA/SDO EUV
Observations

A.C. Cadavid, J.K. Lawrence, D.J. Christian, D.B. Jess, G. Nigro
2014
<http://arxiv.org/pdf/1404.7824v1.pdf>

13-26 July

Direct Observation of Coronal Magnetic Fields by Vector Tomography of the Coronal Emission
Line Polarizations

M. Kramar, H. Lin, S. Tomczyk
2015

<http://arxiv.org/pdf/1502.07200v1.pdf>

14 July

Magnetism and the Invisible Man: The mysteries of coronal cavities **Review**

Sarah Gibson

IAU 300, eds. Schmieder, Malherbe, and Wu, 2014 (2017)

<https://arxiv.org/pdf/1711.09254.pdf>

14-15 July

On-disk solar coronal condensations facilitated by magnetic reconnection between open and closed magnetic structures

[Leping Li](#), [Hardi Peter](#), [Lakshmi Pradeep Chitta](#), [Hongqiang Song](#)

ApJ 2021

<https://arxiv.org/pdf/2102.04605.pdf>

14-18 July

The Merging of Two Stream Interaction Regions within 1 au: The Possible Role of Magnetic Reconnection

[Zehao Wang](#)^{1,2}, [Jianpeng Guo](#)^{3,4,5}, [Xueshang Feng](#)¹, [Chaoxu Liu](#)¹, [Hui Huang](#)³, [Haibo Lin](#)³, [Chenming Tan](#)⁵, [Yihua Yan](#)⁵, and [Weixing Wan](#)

2018 ApJL 869 L6

sci-hub.tw/10.3847/2041-8213/aaf398

15 July

Measuring Velocities in the Early Stage of an Eruption: Using "Overlappogram" Data from Hinode EIS

[Louise K. Harra](#)¹, [Hirohisa Hara](#)², [George A. Doschek](#)³, [Sarah Matthews](#)¹, [Harry Warren](#)³, [J. Leonard Culhane](#)¹, and [Magnus M. Woods](#)¹

2017 ApJ 842 58

<http://sci-hub.cc/10.3847/1538-4357/aa7411>

Long-lived energetic particle source regions on the Sun

[R. Bucik](#), [D. E. Innes](#), [N.-H. Chen](#), [G. M. Mason](#), [R. Gomez-Herrero](#), [M. E. Wiedenbeck](#)
Journal of Physics: Conference Series 2015

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

16 July

Investigating the differential emission measure and energetics of microflares with combined SDO/AIA and RHESSI observations

[A. R. Inglis](#), [S. Christe](#)

2014, ApJ

<http://arxiv.org/pdf/1405.5262v1.pdf>

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

[R. Bucik](#), [D. E. Innes](#), [U. Mall](#), [A. Korth](#), [G. M. Mason](#), [R. Gomez-Herrero](#)

2014

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

22 July

On the Onset Mechanism for Solar Coronal Jets, and Implications for the Onset Mechanism for CME-Producing Eruptions

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

Proceedings of the IAU Symposium No. 388, 2024

<https://arxiv.org/pdf/2410.01123>

High-resolution He I 10830 Å narrowband imaging for precursors of chromospheric jets and their quasi-periodic properties

[Ya Wang](#), [Qingmin Zhang](#), [Zhenxiang Hong](#), [Jinhua Shen](#), [Haisheng Ji](#), [Wenda Cao](#)

A&A 2023

<https://arxiv.org/pdf/2303.07049.pdf>

Quasi-periodic microjets driven by granular advection as observed with high-resolution imaging at He I 10830 Å

[Zhenxiang Hong](#), [Ya Wang](#), [Haisheng Ji](#)

ApJ 2022

<https://arxiv.org/pdf/2201.12837.pdf>

Blobs in recurring EUV jets

Q. M. Zhang and H. S. Ji

E-print, May 2014; A&A

<http://arxiv.org/pdf/1405.5132v1.pdf>

ON A CORONAL BLOWOUT JET: THE FIRST OBSERVATION OF A SIMULTANEOUSLY PRODUCED BUBBLE-LIKE CME AND A JET-LIKE CME IN A SOLAR EVENT

Yuandeng Shen^{1,2,3}, Yu Liu^{1,3}, Jiangtao Su^{3,4} and Yuanyong Deng³

2012 ApJ 745, 164

25 July

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

Janusz Nicewicz, , Grzegorz Michalek

Advances in Space Research, 2014

25-29 July

Solar Flare Intensity Prediction with Machine Learning Models

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

Space Weather 2019

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

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

26 July

Properties of Flare-Imminent versus Flare-Quiet Active Regions from the Chromosphere through the Corona II: NonParametric Discriminant Analysis Results from the NWRA Classification Infrastructure (NCI)

[KD Leka](#), [Karin Dissauer](#), [Graham Barnes](#), [Eric L. Wagner](#)

ApJ 2022

<https://arxiv.org/pdf/2212.11255.pdf>

On the Shape of SEP Electron Spectra: The Role of Interplanetary Transport

R. D. Strauss¹, N. Dresing², A. Kollhoff², and M. Brüdern²

2020 ApJ 897 24

[sci-hub.tw/10.3847/1538-4357/ab91b0](https://arxiv.org/abs/1912.06120)

Magnetism and the Invisible Man: The mysteries of coronal cavities

Review

Sarah Gibson

IAU 300, eds. Schmieder, Malherbe, and Wu, 2014 (2017)

<https://arxiv.org/pdf/1711.09254.pdf>

27 July – 16:16– M1.1 **пересвет** $B=20*2/290=0.14 \leftarrow 16s \rightarrow 8s \rightarrow L/Rs= 0.069$

27 July - A filament eruption near 06h UTC to the west and north of region 11260 was associated with a CME off of the northeast limb.

A filament eruption in the northern hemisphere near the central meridian starting near 16:50 UTC was not associated with any obvious CME.

Soft X-ray Fluxes of Major Flares Far Behind the Limb as Estimated Using STEREO EUV Images

N. V. Nitta, M. J. Aschwanden, P. F. Boerner, S. L. Freeland, J. R. Lemen, J.-P. Wuelser
E-print, May 2013, File; Solar Physics, Solar Physics, November 2013, Volume 288, Issue 1, pp 241-254

28, 29 July

Magnetism and the Invisible Man: The mysteries of coronal cavities

Review

Sarah Gibson

IAU 300, eds. Schmieder, Malherbe, and Wu, 2014 (2017)

<https://arxiv.org/pdf/1711.09254.pdf>

29 Jul-4 Aug

Deep-learning Reconstruction of Sunspot Vector Magnetic Fields for Forecasting Solar Storms

Dattaraj B. Dhuri^{1,2}, Shamik Bhattacharjee¹, Shravan M. Hanasoge^{1,2}, and Sashi Kiran Mahapatra¹

2022 ApJ 939 64

<https://iopscience.iop.org/article/10.3847/1538-4357/ac9413/pdf>

30 July – 02:11: M9.3 вспышка, пересвет на STEREO-B, $B=86,5^{\circ}2/290=0,6$

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

The Role of Magnetic Skeleton in Solar Flare Filaments Activity

Juan Guo^{1,2}, Huaning Wang^{3,4}, Jingxiu Wang^{2,3,4}, Xiaoshuai Zhu^{1,2}, Jing Huang^{2,3}, Shanqiang Chen^{1,2}, Bingxian Luo^{1,2,4}, Siqing Liu^{1,2,4}, Yuanyong Deng^{2,3,4}, and Jiaben Lin^{2,3}

2024 ApJ 975 221

<https://iopscience.iop.org/article/10.3847/1538-4357/ad7a67/pdf>

Temporal Defocusing as a Depth Diagnostic of Submerged Sources of Transient Acoustic Emission from Solar Flares

Savannah Perez-Piel, Juan Camilo Buitrago-Casas, Juan Carlos Martínez Oliveros & Charles Lindsey
Solar Physics volume 298, Article number: 77 (2023)

<https://link.springer.com/content/pdf/10.1007/s11207-023-02163-0.pdf>

Analysis and Modeling of High-frequency Emission and Deep Seismic Sources of Sunquakes

John T. Stefan¹ and Alexander G. Kosovichev^{1,2}

2022 ApJL 937 L26

<https://arxiv.org/pdf/2209.11286.pdf>

<https://iopscience.iop.org/article/10.3847/2041-8213/ac8f92/pdf>

Magnetic Imprints of Eruptive and Noneruptive Solar Flares as Observed by Solar Dynamics Observatory

N. Vasantharaju^{1,2}, P. Vemareddy¹, B. Ravindra¹, and V. H. Doddamani³

2022 ApJ 927 86

<https://iopscience.iop.org/article/10.3847/1538-4357/ac4d8c/pdf>

Submerged Sources of Transient Acoustic Emission from Solar Flares

Charles Lindsey¹, J. C. Buitrago-Casas^{2,3}, Juan Carlos Martínez Oliveros³, Douglas Braun¹, Angel D. Martínez⁴, Valeria Quintero Ortega⁴, Benjamín Calvo-Mozo⁴, and Alina-Catalina Donea⁵

2020 ApJL 901 L9

<https://doi.org/10.3847/2041-8213/abad2a>

<https://iopscience.iop.org/article/10.3847/2041-8213/abad2a/pdf>

Ultra-impulsive Solar Flare Seismology

Angel D. [Martínez](#)¹, Valeria Quintero Ortega¹, J. C. Buitrago-Casas^{2,3}, Juan Carlos Martínez Oliveros³, Benjamín Calvo-Mozo¹, and Charles Lindsey⁴

2020 ApJL 895 L19

<https://doi.org/10.3847/2041-8213/ab9173>

Subsecond Spikes in Fermi GBM X-ray Flux as a Probe for Solar Flare Particle Acceleration

Trevor [Knuth](#), [Lindsay Glesener](#)

ApJ 2020

<https://arxiv.org/pdf/2003.05007.pdf>

Lyman Continuum Observations of Solar Flares Using SDO/EVE

Marcos E. [Machado](#), [Ryan O. Milligan](#), [Paulo J. A. Simoes](#)

ApJ 2018

<https://arxiv.org/pdf/1810.10824.pdf>

The Multi-Instrument (EVE-RHESSI) DEM for Solar Flares, and Implications for Non-Thermal Emission

James M. [McTiernan](#), [Amir Caspi](#), [Harry P. Warren](#)

ApJ 2018

<https://arxiv.org/pdf/1805.12285.pdf>

A Statistical Study of Photospheric Magnetic Field Changes During 75 Solar Flares

J. S. Castellanos [Durán](#)^{1,2}, L. Kleint^{3,4}, and B. Calvo-Mozo¹

2018 ApJ 852 25

<http://iopscience.iop.org/sci-hub.tw/0004-637X/852/1/25/>

Detailed analysis of dynamic evolution of three Active Regions before flare and CME occurrence at the photospheric level

Yudong [Ye](#), [M. B. Korsos](#), [R. Erdelyi](#)

2018

EUV and Magnetic Activities Associated with Type-I Solar Radio Bursts

ChuanYang [Li](#), Yao Chen, Bing Wang, [Guiping Ruan](#), [Shiwei Feng](#), [Guohui Du](#), [Xiangliang Kong](#)

Solar Phys. 2017

<https://arxiv.org/pdf/1705.01666.pdf>

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

Shin [Toriumi](#), Carolus J. Schrijver, Louise K. Harra, Hugh Hudson, Kaori Nagashima

ApJ 2016

<https://arxiv.org/pdf/1611.05047v1.pdf>

The Energetics of White-light Flares Observed by SDO/HMI and RHESSI

Nengyi [Huang](#), Yan Xu, Haimin Wang

Research in Astronomy and Astrophysics 2016

<http://arxiv.org/pdf/1608.06015v1.pdf>

Observations and modelling of Helium lines in solar flares

Paulo J. A. [Simões](#), Lyndsay Fletcher, Nicolas Labrosse, Graham S. Kerr

Proceedings of the Coimbra Solar Physics Meeting 2015: Ground-based Solar Observations in the Space Instrumentation Era; Astronomical Society of the Pacific Conference Series 2015

<http://arxiv.org/pdf/1512.03477v1.pdf>

A Simple Way to Estimate the Soft X-ray Class of Far-Side Solar Flares Observed with STEREO/EUVI

I.M. Chertok (1), A.V. Belov (1), V.V. Grechnev (2)
Solar Phys. 2015

Dynamics of Electric Currents, Magnetic Field Topology and Helioseismic Response of a Solar Flare

I. N. Sharykin, A. G. Kosovichev
2015

<http://arxiv.org/pdf/1502.05190v1.pdf>

Analysis of Chains of Metric Solar Type I Bursts

Z. A. L. Sodré, R. D. Cunha-Silva, F. C. R. Fernandes
Solar Phys., 2014

Solar Flare Impulsive Phase Emission Observed with SDO/EVE

Michael B. Kennedy¹, Ryan O. Milligan^{1,2,3}, Mihalis Mathioudakis¹, and Francis P. Keenan
2013 **ApJ** 779 84

<http://arxiv.org/abs/1310.4649>

30 July-4 Aug

Detailed analysis of dynamic evolution of three Active Regions before flare and CME occurrence at the photospheric level

Yudong Ye, M. B. Korsos, R. Erdelyi
2018

August 2011

Relationship of EUV Irradiance Coronal Dimming Slope and Depth to Coronal Mass Ejection Speed and Mass

James Paul Mason, Thomas N. Woods, David F. Webb, Barbara J. Thompson, Robin C. Colaninno, Angelos Vourlidas

ApJ 2016

<http://arxiv.org/pdf/1607.05284v1.pdf>

Dynamics of Microwave Sources Associated with the Neutral Line and the Magnetic-Field Parameters of Sunspots as a Factor in Predicting Large Flares

V. E. Abramov-Maximov, V. N. Borovik, L. V. Opeikina, A. G. Tlatov
Solar Phys., 2014

1 Aug

Magnetism and the Invisible Man: The mysteries of coronal cavities

Review

Sarah Gibson

IAU 300, eds. Schmieder, Malherbe, and Wu, 2014 (2017)

<https://arxiv.org/pdf/1711.09254.pdf>

The Interaction of Successive Coronal Mass Ejections: A Review

Noé Lugaz, Manuela Temmer, Yuming Wang, Charles J. Farrugia

Sol Phys (2017) 292: 64. File

<http://sci-hub.cc/10.1007/s11207-017-1091-6>

Parameters of Type I Chains and Their Association with Flares in X-ray

Sodré, Z. A. L.; Fernandes, F. C. R.

Ground-based Solar Observations in the Space Instrumentation Era

ASP Conference Series, Vol. 504, p. 143, 2016

<http://aspbooks.org/publications/504/143.pdf>

Oscillation of solar radio emission at coronal acoustic cut-off frequency

O. S. Pylaev, T.V. Zaqarashvili, A. I. Brazhenko, V. N. Melnik, A. Hanslmeier, M. Panchenko
A&A 2017
<https://arxiv.org/pdf/1703.09929.pdf>

1-6 Aug

On the non-Kolmogorov nature of flare-productive solar active regions

Revati S. Mandage, R.T.James McAteer

ApJ 2016

<https://arxiv.org/pdf/1611.00830v1.pdf>

1-12 Aug

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

В. А. Слемзин¹, Ф. Ф. Горяев¹, Д. Г. Родькин¹, Ю. С. Шугай², С. В. Кузин¹

2018 File

2 Aug – 06:16: M1.4 пересвет $A=10*2/312=0,06 \leftarrow 16s \quad 8s \rightarrow 10/312=0.032$
Сомнительный

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

Центральная эрупция, корональная волна

The catalog of Hvar Observatory solar observations

[Mateja Dumbovic](#), [Luci Karbonini](#), [Jasa Calogovic](#), [Filip Matkovic](#), [Karmen Martinic](#), [Akshay Kumar Remeshan](#), [Roman Brajsa](#), [Bojan Vrsnak](#)

Solar Phys. 2024

<https://arxiv.org/pdf/2404.18576>

Investigating pre-eruptive magnetic properties at the footprints of erupting magnetic flux ropes

[Wensi Wang](#), [Jiong Qiu](#), [Rui Liu](#), [Chunming Zhu](#), [Kai E Yang](#), [Qiang Hu](#), [Yuming Wang](#)

ApJ 2022

<https://arxiv.org/pdf/2211.15909.pdf>

Arrival Time Estimates of Earth-Directed CME-Driven Shocks

K. Suresh, [N. Gopalswamy](#) & [A. Shanmugaraju](#)

[Solar Physics](#) volume 297, Article number: 3 (2022)

<https://doi.org/10.1007/s11207-021-01914-1>

<https://link.springer.com/content/pdf/10.1007/s11207-021-01914-1.pdf>

Predicting CMEs using ELEvoHI with STEREO-HI beacon data

[Maike Bauer](#), [Tanja Amerstorfer](#), [Jürgen Hinterreiter](#), [Andreas J. Weiss](#), [Jackie A. Davies](#), [Christian Möstl](#), [Ute V. Amerstorfer](#), [Martin A. Reiss](#), [Richard A. Harrison](#)

Space Weather 2021

<https://arxiv.org/pdf/2108.08072.pdf>

A New Space Weather Tool for Identifying Eruptive Active Regions

[P. Pagano](#), [D. H. Mackay](#), [S. L. Yardley](#)

ApJ 2019

<https://arxiv.org/pdf/1910.04226.pdf>

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

В. А. Слемзин¹, Ф. Ф. Горяев¹, Д. Г. Родькин¹, Ю. С. Шугай², С. В. Кузин¹

Tracking Filament Evolution in the Low Solar Corona Using Remote Sensing and In Situ Observations

Manan Kocher, Enrico Landi, and Susan. T. Lepri

2018 *ApJ* **860** 51

New Probabilistic Model For Episode Integrated Fluences of Protons Using Episodes From 1973-2013

Zachary D. Robinson

Thesis (2015) 2017

<https://arxiv.org/pdf/1711.04391.pdf>

Origin and Ion Charge State Evolution of Solar Wind Transients during 4–7 August 2011

D. Rodkin, F. Goryaev, P. Pagano, G. Gibb, V. Slemzin, Y. Shugay, I. Veselovsky, D. H. Mackay

Solar Physics July 2017, **292:90**

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS.

I. THE CASE FOR BLAST WAVES

T. A. Howard¹ and V. J. Pizzo

2016 *ApJ* **824** 92 File

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics

Markus J. Aschwanden

ApJ 2016

<http://arxiv.org/pdf/1605.04952v1.pdf> File

http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

Temporal and spatial relationship of flare signatures and the force-free coronal magnetic field

Julia K. Thalmann, Astrid M. Veronig, Yang Su

ApJ 2016

<http://arxiv.org/pdf/1605.03703v1.pdf>

The Relation Between Large-Scale Coronal Propagating Fronts and Type II Radio Bursts

Nariaki V. Nitta, Wei Liu, Nat Gopalswamy, Seiji Yashiro

Solar Phys., 2014

http://www.lmsal.com/nitta/publ/SP_typeII_20140904.pdf

<http://arxiv.org/pdf/1409.4754v1.pdf> File

Connecting speeds, directions and arrival times of 22 coronal mass ejections from the Sun to 1 AU

C. Möstl, K. Amla, J. R. Hall, P. C. Liewer, E. M. De Jong, R. C. Colaninno, A. M. Veronig, T.

Rollett, M. Temmer, V. Peinhart, J. A. Davies, N. Lugaz, Y. D. Liu, C.J. Farrugia, J. G. Luhmann,

B. Vršnak, R. A. Harrison, A. B. Galvin

ApJ, 2014

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КРИТЕРИИ ДЛЯ ПРЕДСКАЗАНИЯ ПРОТОННЫХ СОБЫТИЙ ПО СОЛНЕЧНЫМ НАБЛЮДЕНИЯМ В РЕАЛЬНОМ ВРЕМЕНИ

Струминский А.Б., Садовский А.М., Григорьева И.Ю.

ГиА Том: 64Номер: 2 Год: 2024 Страницы: 163-174

3 Aug – 03:41: M1.1 вспышка, **пересвет** на STEREO-A, $A=19 \cdot 2/312=0,12$

14:16: M6.0 **пересвет** $A=39.5 \cdot 2/312=0,25$ $\leftarrow 16s$ $8s \rightarrow 13:46$ $A=25 \cdot 2/312=0,16$

3 Aug – Region 11261 produced a major M6.0 long duration event **peaking** at 13:48 UTC. What appears to be another earthbound halo CME was visible as early as 13:55 UTC in STEREO images.

См. http://iswa.gsfc.nasa.gov/downloads/20110802_101800_anim.tim-den.gif

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Dynamic Property and Magnetic Nonpotentiality of Two Types of Confined Solar Flares

Xuchun Duan, Ting Li, Qihang Jing

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

[Hirdesh Kumar](#), [Brajesh Kumar](#)

MNRAS 2020

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Density distribution of photospheric vertical electric currents in flare active regions of the Sun

[I.V. Zimovets](#) (1), [A.B. Nechaeva](#) (1 and 2), [I.N. Sharykin](#) (1), [W.Q. Gan](#) (3)

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[Brian R. Dennis](#), [Miguel A. Duval-Poo](#), [Michele Piana](#), [Andrew R. Inglis](#), [A. Gordon](#)

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[Bin Zhuang](#)^{1,2}, [Yuming Wang](#)^{1,3}, [Chenglong Shen](#)^{1,3,4}, [Siqing Liu](#)^{5,6}, [Jingjing Wang](#)^{5,6}, [Zonghao Pan](#)^{1,4}, [Huimin Li](#)⁷, and [Rui Liu](#)

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[Michael B. Kennedy](#)¹, [Ryan O. Milligan](#)^{1,2,3}, [Mihalis Mathioudakis](#)¹, and [Francis P. Keenan](#)
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4 Aug – 03:50, M9.3 вспышка с жестким радиоспектром, протоны, **Sustained Gamma**, halo CME **Мощный темный выброс на 304 А** и в корональных каналах. **Корональная волна.**

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Triggering Mechanism for Eruption of Two Filaments Observed by the Solar Dynamics Observatory, Nobeyama Radioheliograph, and RHESSI

Sujin Kim¹ and Vasyl Yurchyshyn²

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The Common Origin of High-energy Protons in Solar Energetic Particle Events and Sustained Gamma-ray Emission from the Sun

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**M. Ackermann², M. Ajello³, A. Albert⁴, A. Allafort^{5,1}, L. Baldini⁶, G. Barbiellini^{7,8}, D. Bastieri et
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STEREO OBSERVATIONS OF FAST MAGNETOSONIC WAVES IN THE EXTENDED SOLAR
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**Ryun-Young Kwon^{1,2}, Leon Ofman^{1,2,3}, Oscar Olmedo⁴, Maxim Kramar^{1,2}, Joseph M. Davila²,
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**6 Aug – 08:48: C4.1 вспышка, пересвет на STEREO-B, $B=13^{\circ}2/288=0,09$
Сильно наклонный пересвет**

6 Aug Буря Dst~115 nT

Comparison of Deep Learning Techniques to Model Connections Between Solar Wind and Ground Magnetic Perturbations

Amy M. Keesee1*, **Victor Pinto1**, **Michael Coughlan1**, **Connor Lennox2**, **Md Shaad**

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Peter J. **Levens**¹, Aimee A. Norton¹, Mark G. Linton², Kalman J. Knizhnik², and Yang Liu¹
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8 Aug – 18:16: M3.5 **пересвет** $A=37.5*2/312=0,24 \leftarrow 16s$ $8s \rightarrow 18:26$ $A=23*2/312=0.147$
22:16: C5.3 **пересвет** $A=35*2/312=0,22 \leftarrow 16s$ $8s \rightarrow A=35/312=0.112$

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

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

9 Aug – 08:25: Region 11263 produced the largest flare of cycle 24, a major X6.9 event.
Короткая вспышка. Мощная корональная волна. Слабый гало CME. Небольшие протоны.
Sustained Gamma

Наши радиоспектры со II типом.

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ВСПЫШКАХ X6.9 9 АВГУСТА 2011 ГОДА И M5.1 17 МАЯ 2012 ГОДА

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A&A 2016

<http://arxiv.org/pdf/1609.04217v1.pdf>

ИСТОЧНИКИ СОЛНЕЧНЫХ МИКРОВОЛНОВЫХ ВСПЛЕСКОВ III ТИПА

ЖДАНОВ Д.А.1, ЛЕСОВОЙ С.В.1, ТОХЧУКОВА С.Х.2

СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том: 2 Номер: 2 Год: 2016 Страницы: 12-21

Broadband microwave sub-second pulsations and magnetoacoustic waves in an expanding coronal loop (2011 August 10 are)

Hana Meszarosova¹, Jan Rybak², Larisa Kashapova³, Peter Gomory², Susanna Tokhchukova⁴, and Ivan Myshyakov³

CESRA 2016, p.99

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

Formation and plasma circulation of solar prominences

Chun Xia, Rony Keppens

ApJ 2016

<http://arxiv.org/pdf/1603.05397v1.pdf>

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections

N. Gopalswamy, H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C. Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi, N. V. Nitta, M. J. Aschwanden, D. P. Choudhary

E-print, Jan 2013; Adv. Space Res.

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

11 Aug, 10:23 – Лимбовая эрупция, C6.2 вспышка, CME, корональная волна.

Хорошо видно на STEREO-A.

II тип (наш спектр) начинается с обратно дрейфующих гармонических полос.

A revised cone model and its application to non-radial prominence eruptions

Q. M. Zhang

A&A Letter 2021

<https://arxiv.org/pdf/2108.11831.pdf>

Radio evidence for a shock wave reflected by a coronal hole

S. Mancuso, A. Bemporad, F. Frassati, D. Barghini, S. Giordano, D. Telloni, C. Taricco

A&A 2021

<https://arxiv.org/pdf/2107.05931.pdf>

Analysis of large deflections of prominence-CME events during the rising phase of solar cycle 24

M.V. Sieyra, M. Cécere, H. Cremades, F.A. Iglesias, A. Sahade, M. Mierla, G. Stenborg, A.

Costa, M. West, E. D'Huys

2020

<https://arxiv.org/pdf/2007.14317.pdf>

A Statistical Study of Solar Filament Eruptions That Forms High-Speed Coronal Mass Ejections

Peng Zou, Chaowei Jiang, Fengsi Wei, Pingbing Zuo, Yi Wang

ApJ 2019

<https://arxiv.org/pdf/1908.08650.pdf>

Magnetism and the Invisible Man: The mysteries of coronal cavities Review
Sarah Gibson
IAU 300, eds. Schmieder, Malherbe, and Wu, 2014 (2017)
<https://arxiv.org/pdf/1711.09254.pdf>

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

12 Aug
Magnetism and the Invisible Man: The mysteries of coronal cavities Review
Sarah Gibson
IAU 300, eds. Schmieder, Malherbe, and Wu, 2014 (2017)
<https://arxiv.org/pdf/1711.09254.pdf>

14 Aug
On the Impulsive Heating of Quiet Solar Corona
[Vishal Upendran](#) (IUCAA, Pune), [Durgesh Tripathi](#) (IUCAA, Pune)
ApJ 2021
<https://arxiv.org/pdf/2103.16824.pdf>

Magnetism and the Invisible Man: The mysteries of coronal cavities Review
Sarah Gibson
IAU 300, eds. Schmieder, Malherbe, and Wu, 2014 (2017)
<https://arxiv.org/pdf/1711.09254.pdf>

15 Aug
Temperature of Solar Prominences Obtained with the Fast Imaging Solar Spectrograph on the 1.6 m New Solar Telescope at the Big Bear Solar Observatory
[Hyungmin Park](#), [Jongchul Chae](#), [Donguk Song](#), ...
Solar Physics, November 2013, Volume 288, Issue 1, pp 105-116

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

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

Modeling Differential Faraday Rotation in the Solar Corona
[Jason E. Kooi](#) & [Molly E. Kaplan](#)
Solar Physics volume 295, Article number: 114 (2020)
<https://link.springer.com/content/pdf/10.1007/s11207-020-01684-2.pdf>

Oscillations in the Flaring Active Region NOAA 11272

S. M. Conde Cuellar, J. E. R. Costa, C. E. Cedeño Montaña
Solar Phys. 2016
<https://arxiv.org/pdf/1611.08707v1.pdf>

Review on Current Sheets in CME Development: Theories and Observations
Jun Lin, Nicholas A. Murphy, Chengcai Shen, John C. Raymond, Katharine K. Reeves, Jiayong Zhong, Ning Wu, Yan Li
Space Science Reviews Volume 194, Issue 1, pp 237-302 Nov 2015 File

Imaging coronal magnetic-field reconnection in a solar flare
Su, Y., Veronig, A. M., Holman, G. D., Dennis, B. R., Wang, T. J., Temmer, M., Gan, W. Q.
E-print, July 2013, File; Nature Physics (2013, in press)
<http://hesperia.gsfc.nasa.gov/rhessi3/news-and-resources/results/movies.html>

RHESSI Heliophysics Senior **Review** 2013
Samuel Krucker, Brian Dennis, Manfred Bester, Laura Peticolas
http://hesperia.gsfc.nasa.gov/senior_review/2013/senior_review_proposal_2013.pdf, 2013, File

18 Aug
Optical Spectral Observations of a Flickering White-light Kernel in a C1 Solar Flare
Adam F. Kowalski^{1,4}, Gianna Cauzzi², and Lyndsay Fletcher
2015 ApJ 798 107

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

19 Aug
Fine magnetic characteristics of a light bridge observed by Hinode
S. Liu, D. Liu
Advances in Space Research [Volume 55, Issue 12](#), 15 June 2015, Pages 2931–2939
<https://arxiv.org/pdf/1902.00348.pdf>

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

Anomalous flows in a sunspot penumbra
Rohan E. Louis, Christian Beck, Shibu K. Mathew, P. Venkatakrishnan
A&A, 2014
<http://arxiv.org/pdf/1408.6690v1.pdf>

Small scale chromospheric jets above a sunspot light bridge
Rohan E. Louis, Christian Beck, Kiyoshi Ichimoto
A&A, 2014
<http://arxiv.org/pdf/1406.0103v1.pdf>

23 Aug

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

Janusz Nicewicz, , Grzegorz Michalek

Advances in Space Research, 2014

24 Aug

Magnetism and the Invisible Man: The mysteries of coronal cavities

Review

Sarah Gibson

IAU 300, eds. Schmieder, Malherbe, and Wu, 2014

(2017)

<https://arxiv.org/pdf/1711.09254.pdf>

25 Aug

Kelvin–Helmholtz instability of magnetohydrodynamic waves propagating on solar surges

I. Zhelyazkov, R. Chandra, A. K. Srivastava, T. Mishonov

[Astrophysics and Space Science](#), April 2015, Volume 356, [Issue 2](#), pp 231-240

THE KINEMATICS AND PLASMA PROPERTIES OF A SOLAR SURGE TRIGGERED BY CHROMOSPHERIC ACTIVITY IN AR11271

P. Kayshap^{1,2}, Abhishek K. Srivastava¹, and K. Murawski

2013 *ApJ* 763 24

26 Aug

Statistical study of type III bursts and associated HXR emissions

[James, Tomin](#) ; [Vilmer, Nicole](#)

Astronomy & Astrophysics, Volume 673, id.A57, 13 pp. 2023

<https://www.aanda.org/articles/aa/pdf/2023/05/aa45825-22.pdf>

https://solarpreprint.org/james_vilmer_accepted.pdf

Doppler-velocity Drifts Detected in a Solar Prominence

Maciej Zapiór¹, Petr Heinzel^{1,2}, and Elena Khomenko^{3,4}

2022 *ApJ* 934 16

<https://iopscience.iop.org/article/10.3847/1538-4357/ac778a/pdf>

Investigating the differential emission measure and energetics of microflares with combined SDO/AIA and RHESSI observations

A. R. Inglis, S. Christe

2014, *ApJ*

<http://arxiv.org/pdf/1405.5262v1.pdf>

28 Aug

On the Determining Physical Factor of Jet-Related Coronal Mass Ejection's Morphology in the High Corona

[Yadan Duan](#), [Yuandeng Shen](#), [Zehao Tang](#), [Chenrui Zhou](#), [Song Tan](#)

ApJ 2024

<https://arxiv.org/pdf/2404.19179>

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections

N. Gopalswamy, H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C.

Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi,

N. V. Nitta, M. J. Aschwanden, D. P. Choudhary

E-print, Jan 2013; Adv. Space Res.

28 Aug - 3 Sept

Properties of the inner penumbral boundary and temporal evolution of a decaying sunspot

M. Benko¹, S. J. González Manrique¹, H. Balthasar², P. Gömöry¹, C. Kuckein² and J. Jurčák
A&A 620, A191 (2018)

sci-hub.tw/10.1051/0004-6361/201834296

<https://arxiv.org/pdf/1810.13185.pdf>

29 Aug

Distinguishing between Flaring and Non-Flaring Active Regions: A Machine Learning Perspective

Soumitra Hazra, Gopal Sardar, Partha Choudhuri

A&A 2020

<https://arxiv.org/pdf/2003.03878.pdf>

Antipodal Flares

B. Pecos and B. Paul

RHESSI Science Nugget, No. 197, Apr 2013

http://sprg.ssl.berkelev.edu/~tohban/wiki/index.php/Antipodal_Flares

30 Aug – 22:56: C5.5 вспышка, пересвет на STEREO-B, $B=3.5 \cdot 2/283=0.0,025$

30 Aug

Morphological evidence for nanoflares heating warm loops in the solar corona

Y. Bi, J. J. Yang, Y. Qin, Z. P. Qiang, J. C. Hong, B. Yang, Z. Xu, H. Liu, K. F. Ji

A&A 2023

<https://arxiv.org/pdf/2309.10049.pdf>

Magnetism and the Invisible Man: The mysteries of coronal cavities

Review

Sarah Gibson

IAU 300, eds. Schmieder, Malherbe, and Wu, 2014 (2017)

<https://arxiv.org/pdf/1711.09254.pdf>

Relationship Between Solar Coronal X-Ray Brightness and Active Region Magnetic Fields: A Study Using High Resolution Observations

Soumitra Hazra, Dibyendu Nandy, B Ravindra

2014

<http://arxiv.org/pdf/1406.1683v1.pdf>

31 Aug-11 Sep

Extreme-ultraviolet Late Phase in Homologous Solar Flares from a Complex Active Region

Y. Zhong, Y. Dai, M. D. Ding

ApJ 2021

<https://arxiv.org/pdf/2105.10069.pdf>

September 2011

Numerical Simulation of Multiple CME-Driven Shocks in the Month of 2011 September†

Chin-Chun Wu, Kan Liou, Angelos Vourlidas, Simon Plunkett, Murray Dryer, S. T. Wu, Dennis Socker, Brian E. Wood, Lynn Hutting, Russell A. Howar

JGR 2016

Wind Boundaries for Driving 3D-MHD Models

H.-S. Yu, B. V. Jackson, P. P. Hick, A. Buffington, D. Odstrcil, C.-C. Wu, J. A. Davies, M. M. Bisi, M. Tokumaru

Solar Phys. 2015

Dynamics of Microwave Sources Associated with the Neutral Line and the Magnetic-Field Parameters of Sunspots as a Factor in Predicting Large Flares
V. E. Abramov-Maximov, V. N. Borovik, L. V. Opeikina, A. G. Tlatov
Solar Phys., 2014

1-6 September

A STATISTICAL STUDY OF FLARE PRODUCTIVITY ASSOCIATED WITH SUNSPOT PROPERTIES IN DIFFERENT MAGNETIC TYPES OF ACTIVE REGIONS

Ya-Hui Yang¹, Min-Shiu Hsieh², Hsiu-Shan Yu³, and P. F. Chen⁴
2017 *ApJ* **834** 150

<http://sci-hub.cc/doi/10.3847/1538-4357/834/2/150>

Nonlinear Force-Free Field Extrapolation of a Coronal Magnetic Flux Rope Supporting a Large-Scale Filament from Photospheric Vector Magnetogram

Chaowei Jiang, S. T. Wu, Xueshang Feng, Qiang Hu
ApJL, 2014

<http://arxiv.org/pdf/1403.7807v1.pdf>

1-10 Sept

A Helioseismic Survey of Near-surface Flows Around Active Regions and their Association with Flares

D. C. Braun
ApJ 2015

<http://arxiv.org/pdf/1602.00038v1.pdf>

2 Sept

Investigation of pre-flare dynamics using the weighted horizontal magnetic gradient method: From small to major flare classes

Marianna B. Korsos, Shuhong Yang, Robert Erdelyi

Journal of Space Weather and Space Climate

2019

<https://arxiv.org/pdf/1901.05984.pdf>

The UCSD kinematic IPS solar wind boundary and its use in the ENLIL 3-D MHD prediction model

B. V. Jackson^{1,*}, D. Odstroil^{2,3}, H.-S. Yu¹, P. P. Hick¹, A. Buffington¹, J. C. Mejia-Ambriz^{1,4}, J. Kim⁵, S. Hong⁵, Y. Kim⁵, J. Han⁵ and M. Tokumaru

Space Weather **Volume 13, Issue 2**, pages 104–115, February 2015

2-9 Sep

Deep-learning Reconstruction of Sunspot Vector Magnetic Fields for Forecasting Solar Storms

Dattaraj B. Dhuri^{1,2}, Shamik Bhattacharjee¹, Shravan M. Hanasoge^{1,2}, and Sashi Kiran Mahapatra¹

2022 *ApJ* **939** 64

<https://iopscience.iop.org/article/10.3847/1538-4357/ac9413/pdf>

3 Sept

Statistical analysis of the onset temperature of solar flares in 2010-2011

[Douglas Félix da Silva](#), [Li Hui](#), [Paulo J. A. Simões](#), [Adriana Valio](#), [Joaquim C. E. R.](#), [Hugh S. Hudson](#), [Paulo J. A. Simoes](#), [Lyndsay Fletcher](#), [Laura A. Hayes](#), [Iain G. Hannah](#)

MNRAS 2023

<https://arxiv.org/pdf/2308.11017.pdf>

Solar microflares: a case study on temperatures and the Fe XVIII emission

[Urmila Mitra-Kraev](#), [Giulio Del Zanna](#)

A&A 2019

<https://arxiv.org/pdf/1905.08579.pdf>

3-7 Sep

Comparative case study of two methods to assess the eruptive potential of selected active regions

[Francesca Zuccarello](#)¹, [Iaria Ermolli](#), [Marianna B. Korsos](#), [Fabrizio Giorgi](#), [Salvo L.](#)

[Guglielmino](#), [Robertus Erdelyi](#), [Paolo Romano](#)

Research in Astronomy and Astrophysics 2021

<https://arxiv.org/pdf/2110.01272.pdf>

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

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

4-8 September

Buildup of the Magnetic Flux Ropes in Homologous Solar Eruptions

[Rui Wang](#), [Ying D. Liu](#), [Shangbin Yang](#), [Huidong Hu](#)

ApJ 2022

<https://arxiv.org/pdf/2201.06817.pdf>

МОРФОЛОГИЯ, ДИНАМИКА И ОСОБЕННОСТИ МАГНИТНОЙ КОНФИГУРАЦИИ АКТИВНЫХ ОБЛАСТЕЙ ПЕРЕД ВСПЫШКАМИ РЕНТГЕНОВСКОГО КЛАССА X

[Фурсяк Ю.А.](#)

Пулково «Солнечная и солнечно-земная физика – 2015», с.371

5 Sept – 04:41: M1.6 вспышка, **пересвет** на STEREO-A, $A=14*2/312=0.09$

сомнительный

08:16: M1.2 **пересвет** $A=11*2/312=0.07$ ←16s 8s→ 07:56 $A=8*2/312=0.051$

5 Sept, >00-01 – значительная NW-лимбовая эрупция, CME и M1.6 вспышка.

На STEREO-A гало CME.

Перед этим еще несколько относительно слабых вспышек и эрупций.

Strongest coronal magnetic fields in solar cycles 23-24: probing, statistics, and implications

V. V. Fedenev, S. A. Anfinogentov, G. D. Fleishman

ApJ 2023

<https://arxiv.org/pdf/2301.08922.pdf>

Global energetics of solar flares. XIII. The Neupert effect and acceleration of coronal mass ejections

[Markus J. Aschwanden](#)

ApJ 2021

<https://arxiv.org/pdf/2112.07759.pdf> File

Properties of Decameter IIIb–III Pairs

V. N. Melnik, A. I. Brazhenko, A. V. Frantsuzenko, V. V. Dorovskyy, H. O. Rucker

Solar Physics February 2018, 293:26

<https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1234-9.pdf>

5-8 September

Relationship between Successive Flares in the Same Active Region and Space-Weather HMI Active Region Patch (SHARP) Parameters

[Hao Ran](#), [Ying D. Liu](#), [Yang Guo](#), [Rui Wang](#)

ApJ 2022

<https://arxiv.org/pdf/2207.07254.pdf>

ANALYSIS ON CORRELATIONS BETWEEN SUBSURFACE KINETIC HELICITY AND PHOTOSPHERIC CURRENT HELICITY IN ACTIVE REGIONS

[Yu Gao](#)¹, [Junwei Zhao](#)², and [Hongqi Zhang](#)

2012 ApJ 761 L9

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

6 Sept, >01:50 UT - central sunspot 1283 produced значительную эрупцию, корональную волну, an M5.3-class flare and Earth-directed CME. Хорошо видно на STEREO-A.

Gamma-flare

Источник бури 9-10-ого с Dst~-70-75 нТл

Recovery of coronal dimmings

Giulia M. [Ronca](#), [Galina Chikunova](#), [Karin Dissauer](#), [Tatiana Podladchikova](#), [Astrid M. Veronig](#)

A&A 2024

<https://arxiv.org/pdf/2410.02585>

Evidence for flare-accelerated particles in large scale loops in the behind-the-limb gamma-ray solar flare of September 29, 2022

Melissa [Pesce-Rollins](#), [Karl-Ludwig Klein](#), [Säm Krucker](#), [Alexander Warmuth](#), [M. Astrid](#)

[Veronig](#), [Nicola Omodei](#), [Christian Monstein](#)

A&A 2024

<https://arxiv.org/pdf/2402.08380.pdf> File

Circular-ribbon flares and the related activities

Review

[Qingmin Zhang](#)

Reviews of Modern Plasma Physics 2024

<https://arxiv.org/pdf/2401.16101.pdf>

Photospheric Lorentz force changes in eruptive and confined solar flares

[Samridhi Sankar Maity](#), [Ranadeep Sarkar](#), [Piyali Chatterjee](#), [Nandita Srivastava](#)

ApJ 2023

<https://arxiv.org/pdf/2312.06787.pdf>

Coronal dimmings as indicators of early CME propagation direction

[Shantanu Jain](#), [Tatiana Podladchikova](#), [Galina Chikunova](#), [Karin Dissauer](#), [Astrid M. Veronig](#)

A&A 2023

<https://arxiv.org/pdf/2311.13942.pdf>

Particle Acceleration and Their Escape into the Heliosphere in Solar Flares with Open Magnetic Field

Mykola [Gordovskyy](#)^{1,2}, Philippa K. Browning², Kanya Kusano³, Satoshi Inoue⁴, and Grigory E. Vekstein²

2023 ApJ 952 75

<https://arxiv.org/pdf/2305.19449.pdf>

<https://iopscience.iop.org/article/10.3847/1538-4357/acdb4d/pdf>

Improving the Arrival Time Estimates of Coronal Mass Ejections by Using Magnetohydrodynamic Ensemble Modeling, Heliospheric Imager data, and Machine Learning

Talwinder [Singh](#), [Bernard Benson](#), [Syed A. Z. Raza](#), [Tae K. Kim](#), [Nikolai V. Pogorelov](#), [William P. Smith](#), [Charles N. Arge](#)

2023

<https://arxiv.org/pdf/2302.05588.pdf>

Automated detection of coronal Mass ejection origins for space weather Applications (ALMANAC)

[Thomas Williams](#), [Huw Morgan](#)

Space Weather 2022

<https://arxiv.org/pdf/2211.04405.pdf>

Coronal loop kink oscillation periods derived from the information of density, magnetic field, and loop geometry

G. Y. Chen¹, L. Y. Chen¹, Y. Guo¹, M. D. Ding¹, P. F. Chen¹ and R. Erdélyi^{2,3,4}

A&A 664, A48 (2022)

<https://www.aanda.org/articles/aa/pdf/2022/08/aa42711-21.pdf>

Data-driven modeling of solar coronal magnetic field evolution and eruptions

Chaowei Jiang, Xueshang Feng, Yang Guo, Qiang Hu

The Innovation 2022

[https://www.cell.com/the-innovation/fulltext/S2666-6758\(22\)00032-7](https://www.cell.com/the-innovation/fulltext/S2666-6758(22)00032-7)

<https://doi.org/10.1016/j.xinn.2022.100236>

A New Magnetic Parameter of Active Regions Distinguishing Large Eruptive and Confined Solar Flares

Ting Li^{1,2}, Xudong Sun³, Yijun Hou^{1,2}, Anqin Chen⁴, Shuhong Yang^{1,2}, and Jun Zhang⁵

2022 ApJL 926 L14

<https://iopscience.iop.org/article/10.3847/2041-8213/ac5251/pdf>

Temperature Analysis of Flaring (AR11283) and non-Flaring (AR12194) Coronal Loops

Narges Fathalian, [Seyedeh Somayeh Hosseini Rad](#), [Nasibeh Alipour](#), [Hossein Safari](#)

2022

<https://arxiv.org/pdf/2201.00214.pdf>

ПРЕДВЕСТНИКИ СОЛНЕЧНЫХ ВСПЫШЕК В МИКРОВОЛНОВОМ ДИАПАЗОНЕ

Абрамов-Максимов В.Е., Бакунина И.А.

Изв. КРАО Том: 117 Номер: 1 Год: 2021 Страницы: 38-43

Extreme-ultraviolet Late Phase in Homologous Solar Flares from a Complex Active Region

[Y. Zhong](#), [Y. Dai](#), [M. D. Ding](#)

ApJ 2021

<https://arxiv.org/pdf/2105.10069.pdf>

The Common Origin of High-energy Protons in Solar Energetic Particle Events and Sustained Gamma-ray Emission from the Sun

N. Gopalswamy, [S. Yashiro](#), [P. Makela](#), [H. Xie](#), [S. Akiyama](#)

ApJ 2021

<https://arxiv.org/ftp/arxiv/papers/2105/2105.01206.pdf>

Image Desaturation for SDO/AIA Using Deep Learning

[Xuexin Yu](#), [Long Xu](#) & [Yihua Yan](#)

Solar Physics volume 296, Article number: 56 (2021)

<https://doi.org/10.1007/s11207-021-01808-2>

<https://link.springer.com/content/pdf/10.1007/s11207-021-01808-2.pdf>

Desaturated EUV Flare Ribbons in an X-class Flare

Säm Krucker^{1,2}, Gabriele Torre^{1,3}, and Richard A. Schwartz^{4,5}

2021 *ApJ* 909 43

<https://doi.org/10.3847/1538-4357/abcf30>

First Fermi-LAT Solar Flare **Catalog**

M. Ajello¹, L. Baldini², D. Bastieri^{3,4}, R. Bellazzini⁵, A. Berretta⁶, E. Bissaldi^{7,8}, R. D.

Blandford⁹, R. Bonino^{10,11}, P. Bruel¹², S. Buson¹³ Show full author list

2021 *ApJS* 252 13

<https://arxiv.org/pdf/2101.10010.pdf> File

<https://doi.org/10.3847/1538-4365/abd32e>

Harmonic ECME Excited by Energetic Electrons Travelling Inside A Coronal Loop

M. Yousefzadeh, [H. Ning](#), [Y. Chen](#)

ApJ 2021

<https://arxiv.org/pdf/2101.01526.pdf>

Source-region characteristics of anemone active regions in the ascending phase of solar cycle 24

R. Sharma and C. Cid

A&A 642, A233 (2020)

<https://www.aanda.org/articles/aa/pdf/2020/10/aa38927-20.pdf>

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<http://iopscience.iop.org/sci-hub.cc/0004-637X/845/2/169/>

Measuring Solar Doppler Velocities in the He ii 30.38 nm Emission Using the EUV Variability Experiment (EVE)
P. C. Chamberlin
Solar Phys. 2016

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS.
I. THE CASE FOR BLAST WAVES
T. A. Howard¹ and **V. J. Pizzo**
2016 **ApJ** **824** 92 File

Dynamic SEP event probability forecasts
S. W. Kahler and **A. Ling**
Space Weather Volume 13, Issue 10 (pages 665–675) 2015 DOI: 10.1002/2015SW001222

A Statistical Study of Distant Consequences of Large Solar Energetic Events
Carolus J. Schrijver, **Paul A. Higgins**
Solar Phys. 2015
<http://arxiv.org/pdf/1509.05680v1.pdf>

Gradual Magnetic Evolution of Sunspot Structure and Filament-Corona Dynamics Associated with the X1.8 Flare in AR 11283
Guiping Ruan, **Yao Chen**, **Haimin Wang**
2015
<http://arxiv.org/pdf/1509.04407.pdf>

Thermodynamic Spectrum of Solar Flares Based on SDO/EVE Observations: Techniques and First Results
Yuming Wang, [Zhenjun Zhou](#), [Jie Zhang](#), [Kai Liu](#), [Rui Liu](#), [Chenglong Shen](#), [Phillip C. Chamberlin](#)
2015
<http://arxiv.org/pdf/1507.08895v1.pdf>

Observation of solar high energy gamma and X-ray emission and solar energetic particles
Alexei Struminsky, **Wei-qun Gan**
24th European Cosmic Ray Symposium, Kiel, September 2014, 2015

Soft X-ray Pulsations in Solar Flares
Paulo J. A. Simões, **Hugh S. Hudson**, **Lyndsay Fletcher**

Solar Phys. 2015
<http://arxiv.org/pdf/1412.3045v1.pdf>

Dynamics of Microwave Sources Associated with the Neutral Line and the Magnetic-Field Parameters of Sunspots as a Factor in Predicting Large Flares
V. E. Abramov-Maximov, V. N. Borovik, L. V. Opeikina, A. G. Tlatov
Solar Phys., 2014

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

Comparison of Emission Properties of two Homologous Flares in AR 11283
Yan Xu, Ju Jing, Shuo Wang, Haimin Wang
ApJ, 2014
<http://arxiv.org/pdf/1404.6577v1.pdf>

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

Solar Flare Impulsive Phase Emission Observed with SDO/EVE
Michael B. Kennedy¹, Ryan O. Milligan^{1,2,3}, Mihalis Mathioudakis¹, and Francis P. Keenan
2013 ApJ 779 84
<http://arxiv.org/abs/1310.4649>

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES
M. Ackermann², M. Ajello³, A. Albert⁴, A. Allafort^{5,1}, L. Baldini⁶, G. Barbiellini^{7,8}, D. Bastieri et al.
Fermi-LAT collaboration
E-print, April 2013, File; ApJ

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

7-8 Sept

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>

Energy release from a stream of infalling prominence debris on 2011 September 7-8
Andrew R. Inglis, Holly R. Gilbert, Leon Ofman
ApJ 2017
<https://arxiv.org/pdf/1708.01555.pdf>

8 Sept – 15:46: M6.7 вспышка, пересвет на STEREO-A, $A=56 \cdot 2/312=0,36$

8 Sept

Observation of a Flare and Filament Eruption in Lyman- α on 8 September 2011 by the PROject for OnBoard Autonomy/Large Yield Radiometer (PROBA2/LYRA)

[L. Wauters](#), [M. Dominique](#), [R. Milligan](#), [I. E. Dammasch](#), [M. Kretzschmar](#) & [J. Machol](#)

[Solar Physics](#) volume 297, Article number: 36 (2022)

<https://link.springer.com/content/pdf/10.1007/s11207-022-01963-0.pdf>

Correction: [Solar Physics](#) volume 297, Article number: 39 (2022)

Extreme-ultraviolet Late Phase in Homologous Solar Flares from a Complex Active Region

[Y. Zhong](#), [Y. Dai](#), [M. D. Ding](#)

[ApJ](#) 2021

<https://arxiv.org/pdf/2105.10069.pdf>

The Lyman-alpha Emission in Solar Flares. I. a Statistical Study on Its Relationship with the 1--8 Å Soft X-ray Emission

[Zhichen Jing](#), [Wuqi Pan](#), [Yukun Yang](#), [Dechao Song](#), [Jun Tian](#), [Y. Li](#), [X. Cheng](#), [Jie Hong](#), [M. D.](#)

[Ding](#)

[ApJ](#) 2020

<https://arxiv.org/pdf/2009.10358.pdf>

The Energetics of White-light Flares Observed by SDO/HMI and RHESSI

[Nengyi Huang](#), [Yan Xu](#), [Haimin Wang](#)

[Research in Astronomy and Astrophysics](#) 2016

<http://arxiv.org/pdf/1608.06015v1.pdf>

Thermodynamic Spectrum of Solar Flares Based on SDO/EVE Observations: Techniques and First Results

[Yuming Wang](#), [Zhenjun Zhou](#), [Jie Zhang](#), [Kai Liu](#), [Rui Liu](#), [Chenglong Shen](#), [Phillip C.](#)

[Chamberlin](#)

2015

<http://arxiv.org/pdf/1507.08895v1.pdf>

Multiwavelength observations of a partially eruptive filament on 2011 September 8

[Q. M. Zhang](#), [Z. J. Ning](#), [Y. Guo](#), [T. H. Zhou](#), [X. Cheng](#), [H. S. Ji](#), [L. Feng](#), [T. Wiegmann](#)

[ApJ](#) 2015

<http://arxiv.org/pdf/1503.02933v1.pdf>

A Study of Connections Between Solar Flares and Subsurface Flow Fields of Active Regions

[Yu Gao](#), [Junwei Zhao](#), [Hongqi Zhang](#)

[Solar Physics](#), February 2014, Volume 289, Issue 2, pp 493-502

8-9 Sept

Critical magnetic field strengths for solar coronal plumes in quiet regions and coronal holes?

[Ellis A. Avallone](#), [Sanjiv K. Tiwari](#), [Navdeep K. Tiwari](#), [Ronald L. Moore](#), [Amy Winebarger](#)

[ApJ](#) 2018

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

9 Sept – 06:16: M2.7 **пересвет** $A=69^2/312=0,44$ $\leftarrow 16s$ $8s \rightarrow 06:10$ $A=40^2/312=0.256$

Пропуск на GOES

12:56: M1.2. вспышка, **пересвет** на STEREO-A, $A=10^2/312=0,06$

сомнительный

9 Sept M1.2 non-eruptive solar flare

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

Extreme-ultraviolet Late Phase in Homologous Solar Flares from a Complex Active Region
[Y. Zhong](#), [Y. Dai](#), [M. D. Ding](#)
ApJ 2021
<https://arxiv.org/pdf/2105.10069.pdf>

Energy partition in a confined flare with an extreme-ultraviolet late phase
[Q. M. Zhang](#), [J. X. Cheng](#), [Y. Dai](#), [K. V. Tam](#), [A. A. Xu](#)
A&A 2021
<https://arxiv.org/pdf/2104.03677.pdf>

Extremely Large Extreme-ultraviolet Late Phase Powered by Intense Early Heating in a Non-eruptive Solar Flare
[Yu Dai](#), [Mingde Ding](#), [Weiguo Zong](#), [Kai E. Yang](#)
ApJ 2018
<https://arxiv.org/pdf/1807.01315.pdf>

Observation of an Extremely Large-Density Heliospheric Plasma Sheet Compressed by an Interplanetary Shock at 1 AU
[Chin-Chun Wu](#), [Kan Liou](#), [R. P. Lepping](#), [Angelos Vourlidas](#), [Simon Plunkett](#), [Dennis Socker](#), [S. T. Wu](#)
[Solar Physics](#) August 2017, 292:109

The radial speed-expansion speed relation for Earth-directed CMEs
[P. Mäkelä](#), [N. Gopalswamy](#), [S. Yashiro](#)
[Space Weather](#) Volume 14, Issue 5 May 2016 Pages 368–378 File
<http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf>

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

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

9-10 Sept

Properties of the HPS-ICME-CIR Interaction Event of 9–10 September 2011
[Duraïd A. Al-Shakarchi](#), [Huw Morgan](#)
JGR 2018
<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1002/2017JA024849>

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

10.09, 01-03 UT – Эрупция крупного центрального/северного волокна.

Хорошее распространяющееся на север потемнение на 304 А. CME

Solar coronal magnetic fields derived using seismology techniques applied to omnipresent sunspot waves

[D.B. Jess](#), [V.E. Reznikova](#), [R.S.I. Ryans](#), [D.J. Christian](#), [P.H. Keys](#), [M. Mathioudakis](#), [D.H. Mackay](#), [S. Krishna Prasad](#), [D. Banerjee](#), [S.D.T. Grant](#), [S. Yau](#), [C. Diamond](#)
[Nature Physics](#), 12, 179 (2016; DOI:10.1038/nphys3544)

<http://arxiv.org/pdf/1605.06112v1.pdf>

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations

A. Nindos, S. Patsourakos, A. Vourlidis, C. Tagikas

ApJ 2015

<http://arxiv.org/pdf/1507.03766v1.pdf>

10-11 Sept

Geomagnetic storm forecasting service StormFocus: 5 years online

Tatiana Podladchikova, Anatoly Petrukovich and Yuri Yermolaev

J. Space Weather Space Clim. 2018, 8, A22

<https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170027.pdf>

11 September

Magnetohydrodynamics modeling of coronal magnetic field and solar eruptions based on the photospheric magnetic field Review

Satoshi Inoue

Progress in Earth and Planetary Science 2016 3:19

<http://progearthplanetsci.springeropen.com/articles/10.1186/s40645-016-0084-7>

E-print, 4 July 2016

12 September

Initiation and Early Kinematic Evolution of Solar Eruptions

X. Cheng, J. Zhang, B. Kliem, T. {Török}, C. Xing, Z. J. Zhou, B. Inhester, M. D. Ding

ApJ 2020

<https://arxiv.org/pdf/2004.03790.pdf>

On the Relationship Between a Hot-channel-like Solar Magnetic Flux Rope and its embedded Prominence

X. Cheng, M. D. Ding, J. Zhang, A. K. Srivastava, Y. Guo, P. F. Chen, J. Q. Sun

2014, ApJ Letters

<http://arxiv.org/pdf/1406.4196v1.pdf>

SDO/AIA Observations of a Partially Erupting Prominence

Durgesh Tripathi¹, Katharine K. Reeves², Sarah E. Gibson³, Abhishek Srivastava⁴, and Navin C. Joshi

2013 ApJ 778 142; File

<http://arxiv.org/pdf/1310.0162v1.pdf>

Discovery of the Sausage-Pinch Instability in Solar Corona

Abhi K. Srivastava¹, R. Erdélyi², V. Fedun², P. Kayshap¹, N.C. Joshi¹, D. Tripathi

UKSP nugget 34, 2013. <http://www.uksolphys.org/?p=6158>

OBSERVATIONAL EVIDENCE OF SAUSAGE-PINCH INSTABILITY IN SOLAR CORONA BY SDO/AIA

A. K. Srivastava¹, R. Erdélyi², Durgesh Tripathi³, V. Fedun^{2,4}, N. C. Joshi¹, and P. Kayshap

2013 ApJ 765 L42

13.09, >22 UT –Центральная/северная эрупция. Гало CME.

Источник бури 17-ого с Dst~-75 нТл

Improving the Arrival Time Estimates of Coronal Mass Ejections by Using Magnetohydrodynamic Ensemble Modeling, Heliospheric Imager data, and Machine Learning

Talwinder [Singh](#), [Bernard Benson](#), [Syed A. Z. Raza](#), [Tae K. Kim](#), [Nikolai V. Pogorelov](#), [William P. Smith](#), [Charles N. Arge](#)

2023

<https://arxiv.org/pdf/2302.05588.pdf>

Is There a Dynamic Difference between Stealthy and Standard Coronal Mass Ejections?

[Beili Ying](#)¹, [Alessandro Bemporad](#)^{2,1}, [Li Feng](#)^{1,3}, [Nariaki V. Nitta](#)⁴, and [Weiqun Gan](#)^{1,3}

2023 *ApJ* 942 3

<https://iopscience.iop.org/article/10.3847/1538-4357/aca52c/pdf>

The Solar X-ray Corona

Review

[Paola Testa](#), [Fabio Reale](#)

Book chapter. To appear in Springer's "Handbook of X-ray and Gamma-ray Astrophysics" (eds. A. Santangelo and C. Bambi), Section "The Sun, Stars & Planets" (eds. G. Micela & B. Stelzer)

2022

<https://arxiv.org/pdf/2206.03530.pdf>

Solar sources of interplanetary magnetic clouds leading to helicity prediction

[Roger K. Ulrich](#), [Pete Riley](#), [T. Tran](#)

Space Weather 2018

<https://arxiv.org/ftp/arxiv/papers/1811/1811.03560.pdf>

Modeling of Solar Atmosphere Parameters Above Sunspots Using RATAN-600 Microwave Observations

[A. G. Stupishin](#), [T. I. Kaltman](#), [V. M. Bogod](#), [L. V. Yasnov](#)

Solar Physics January 2018, 293:13

<https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1228-7.pdf>

Elongation of Flare Ribbons

[Jiong Qiu](#)¹, [Dana W. Longcope](#)¹, [Paul A. Cassak](#)², and [Eric R. Priest](#)

2017 *ApJ* 838 17 DOI 10.3847/1538-4357/aa6341

<http://sci-hub.cc/10.3847/1538-4357/aa6341>

A STEREO Survey of Magnetic Cloud Coronal Mass Ejections Observed at Earth in 2008--2012

[Brian E. Wood](#), [Chin-Chun Wu](#), [Ronald P. Lepping](#), [Teresa Nieves-Chinchilla](#), [Russell A. Howard](#), [Mark G. Linton](#), [Dennis G. Socker](#)

Astrophysical Journal Supplement 2017 File

<https://arxiv.org/pdf/1701.01682v1.pdf>

LONG DURATION FLARE EMISSION: IMPULSIVE HEATING OR GRADUAL HEATING?

[Jiong Qiu](#) and [Dana W. Longcope](#)

ApJ 820 14 2016

<http://arxiv.org/pdf/1604.05342v1.pdf>

Numerical Simulation of Multiple CME-Driven Shocks in the Month of 2011 September†

[Chin-Chun Wu](#), [Kan Liou](#), [Angelos Vourlidas](#), [Simon Plunkett](#), [Murray Dryer](#), [S. T. Wu](#), [Dennis Socker](#), [Brian E. Wood](#), [Lynn Hutting](#), [Russell A. Howar](#)

JGR 2016

Reduced Coronal Emission above Large Isolated Sunspots

[B. I. Ryabov](#), [D. E. Gary](#), [N. G. Peterova](#), [K. Shibasaki](#), and [N. A. Topchilo](#)

Solar Phys., 2014

http://www.ltn.lv/~ryabov/paper_1.pdf

Structures of Interplanetary Magnetic Flux Ropes and Comparison with Their Solar Sources

Qiang Hu, Jiong Qiu, B. Dasgupta, A. Khare, and G. M. Webb

ApJ, 2014; File

https://dl.dropboxusercontent.com/u/96898685/ms_fr_v4.pdf

Relationship Between Solar Coronal X-Ray Brightness and Active Region Magnetic Fields: A Study Using High Resolution Observations

Soumitra Hazra, Dibyendu Nandy, B Ravindra

2014

<http://arxiv.org/pdf/1406.1683v1.pdf>

Thermal structure of a hot non-flaring corona from Hinode/EIS

A. Petralia¹, F. Reale^{1,2}, P. Testa³ and G. Del Zanna

A&A 564, A3 (2014)

<http://www.aanda.org/articles/aa/pdf/2014/04/aa22998-13.pdf>

14 Sept

Invited **Review**: Short-term Variability with the Observations from the Helioseismic and Magnetic Imager (HMI) Onboard the Solar Dynamics Observatory (SDO): Insights into Flare Magnetism

Maria D. Kazachenko, Marcel F. Albelo-Corchado, Cole A. Tamburri & Brian T. Welsch

Solar Physics volume 297, Article number: 59 (2022)

<https://link.springer.com/content/pdf/10.1007/s11207-022-01987-6.pdf> File

Predicting the Time-of-Arrival of Coronal Mass Ejections at Earth From Heliospheric Imaging Observations

Carlos Roberto Braga, Angelos Vourlidas, Guillermo Stenborg, Alisson Dal Lago, Rafael Rodrigues Souza de Mendonça, Ezequiel Echer

JGR 2020

<https://arxiv.org/pdf/2008.09005.pdf>

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation

Nishtha Sachdeva

Ph.D. Thesis 2019

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

Unambiguous Evidence of Coronal Implosions During Solar Eruptions and Flares

Juntao Wang, P. J. A. Simoes, L. Fletcher

ApJ 2018

<https://arxiv.org/pdf/1804.02354.pdf>

15 September

A MICROFILAMENT-ERUPTION MECHANISM FOR SOLAR SPICULES

Alphonse C. Sterling¹ and Ronald L. Moore^{1,2}

2016 ApJ 828 L9 DOI 10.3847/2041-8205/828/1/L9

<https://arxiv.org/pdf/1612.00430v1.pdf>

THE CORONAL LOOP INVENTORY PROJECT

J. T. Schmelz, S. Pathak, G. M. Christian, R. S. S. Dhaliwal, and K. S. Paul

2015 ApJ 813 71

16 Sept – 00:16: C7.8 неprecвет $A=36 \cdot 2/312=0,23 \leftarrow 16s \quad 8s \rightarrow A=36/312=0.115$

17 Sep

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

Investigating the Magnetic Structure of Interplanetary Coronal Mass Ejections using Simultaneous Multi-Spacecraft In situ Measurements

F. Regnault, [N. Al-Haddad](#), [N. Lugaz](#), [C. J. Farrugia](#), [W. Yu](#), [E. E. Davies](#), [A. B. Galvin](#), [B. Zhuang](#)
ApJ 2023
<https://arxiv.org/pdf/2309.10582.pdf>

The radial speed-expansion speed relation for Earth-directed CMEs

P. [Mäkelä](#), [N. Gopalswamy](#), [S. Yashiro](#)

Space Weather Volume 14, Issue 5 May 2016 Pages 368–378 File

<http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf>

Numerical Simulation of Multiple CME-Driven Shocks in the Month of 2011 September†

[Chin-Chun Wu](#), [Kan Liou](#), [Angelos Vourlidas](#), [Simon Plunkett](#), [Murray Dryer](#), [S. T. Wu](#), [Dennis Socker](#), [Brian E. Wood](#), [Lynn Hutting](#), [Russell A. Howar](#)
JGR 2016

Structures of Interplanetary Magnetic Flux Ropes and Comparison with Their Solar Sources

[Qiang Hu](#), [Jiong Qiu](#), [B. Dasgupta](#), [A. Khare](#), and [G. M. Webb](#)

ApJ, 2014; File

https://dl.dropboxusercontent.com/u/96898685/ms_fr_v4.pdf

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

19 September

Structured type III radio bursts observed in interplanetary space

[Immanuel C. Jebaraj](#), [Jasmina Magdalenic](#), [Vladimir Krasnoselskikh](#), [Vratislav Krupar](#), [Stefaan Poedts](#)

A&A 2022

<https://arxiv.org/pdf/2209.12333.pdf>

He I spectropolarimetry of a supersonic coronal downflow within a sunspot umbra

[Thomas A. Schad](#), [Gabriel I. Dima](#), [Tetsu Anan](#)

ApJ 2021

<https://arxiv.org/pdf/2105.12853.pdf>

Statistics of "Cold" Early Impulsive Solar Flares in X-ray and Microwave domains

[Alexandra L. Lysenko](#), [Alexander T. Altyntsev](#), [Natalia S. Meshalkina](#), [Dmitriy Zhdanov](#), [Gregory D. Fleishman](#)

2018

<https://arxiv.org/pdf/1802.09288.pdf>

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

21 Sept

Examining the Source Regions of Solar Energetic Particles Using an AI-generated Synchronic Potential Field Source Surface Model

Jinhye Park¹, Hyun-Jin Jeong¹, and Yong-Jae Moon^{1,2}
2023 ApJ 953 159
<https://iopscience.iop.org/article/10.3847/1538-4357/acdd00/pdf>

Study of Solar Energetic Particle Associations with Coronal Extreme-ultraviolet Waves
Jinhye Park¹, D. E. Innes², R. Bucik^{2,3}, Y.-J. Moon^{1,4}, and S. W. Kahler
2015 ApJ 808 3

See presentation

https://community.apan.org/cfs-file.ashx/_key/telligent-evolution-components-attachments/13-7784-00-00-00-14-46-02/Park.pdf

22- Sept - высокая активность

Solar Max Arrives

Hugh Hudson and Richard Schwartz

RHESSI Science Nugget, No. 159, Sep 2011

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

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

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

множественный

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

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

Limb Observations of Global Solar Coronal EUV Wavefronts: the Inclination, Kinematics, Coupling with the Expanding CMEs, and Connection with the CME-driven Shocks

Huidong Hu (1), Bei Zhu (2), Ying D. Liu (1), Chong Chen (3), Rui Wang (1), Xiaowei Zhao (4)

ApJ 2024

<https://arxiv.org/pdf/2409.15017>

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

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

ApJ 2023

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

Examining the Source Regions of Solar Energetic Particles Using an AI-generated Synchronic Potential Field Source Surface Model

Jinhye Park¹, Hyun-Jin Jeong¹, and Yong-Jae Moon^{1,2}

2023 ApJ 953 159

<https://iopscience.iop.org/article/10.3847/1538-4357/acdd00/pdf>

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

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

the 26th International Conference on Discovery Science (DS2023)

2023

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

Relationship between solar energetic particle intensities and coronal mass ejection kinematics using STEREO/SECCHI field of view

Anitha Ravishankar and Grzegorz Michalek

A&A 646, A142 (2021)

<https://www.aanda.org/articles/aa/pdf/2021/02/aa39537-20.pdf>

<https://doi.org/10.1051/0004-6361/202039537>

<https://arxiv.org/pdf/2102.12640.pdf>

When do solar erupting hot magnetic flux ropes form?

A. Nindos, S. Patsourakos, A. Vourlidas, X. Cheng, J. Zhang

A&A 2020

<https://arxiv.org/pdf/2008.04380.pdf>

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

Nat Gopalswamy, Sachiko Akiyama, Seiji Yashiro

ApJL 2020

<https://arxiv.org/ftp/arxiv/papers/2006/2006.05844.pdf>

The Nature and Origin of Moving Solar Radio Bursts Associated with Coronal Mass Ejections

Diana Morosan, Emilia Kilpua, Erika Palmerio, Benjamin Lynch, Jens Pomoell, Rami Vainio,

Minna Palmroth, Juska Räsänen

EGU2020 Presentation #5379 File

Initiation and Early Kinematic Evolution of Solar Eruptions

X. Cheng, J. Zhang, B. Kliem, T. Török, C. Xing, Z. J. Zhou, B. Inhester, M. D. Ding

ApJ 2020

<https://arxiv.org/pdf/2004.03790.pdf>

Variable emission mechanism of a Type IV radio burst

D. E. Morosan, E. K. J. Kilpua, E. P. Carley, C. Monstein

A&A 2019

<https://arxiv.org/pdf/1902.01140.pdf>

Properties of DH Type II Radio Bursts and Their Space Weather Implications

N. Gopalswamy, P. Mäkelä

submitted to the URSI AP-RASC 2019 2018

<https://arxiv.org/ftp/arxiv/papers/1810/1810.11173.pdf>

Visibility and Origin of Compact Interplanetary Radio Type IV Bursts

Nasrin Talebpour Sheshvan, Silja Pohjolainen

Solar Phys. 2018

<https://arxiv.org/pdf/1810.09208.pdf>

Interplanetary radio type II and type IV bursts as indicators of propagating solar transients

Silja Pohjolainen, Nasrin Talebpour Sheshvan

Proceedings of 2nd URSI AT-RASC Meeting in Gran Canaria, 28 May - 1 June 2018 2018

<https://arxiv.org/ftp/arxiv/papers/1806/1806.05065.pdf>

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures

Edward M.B. Thiemann, Francis G. Eparvier and Thomas N. Woods

J. Space Weather Space Clim. 2017, 7, A36

<https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170050.pdf>

Origin of Radio Enhancements in Type II Bursts in the Outer Corona

Firas Al-Hamadani, Silja Pohjolainen, Eino Valtonen

Solar Physics September 2017, 292:127

<https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1148-6.pdf>

Which Bow Shock Theory, Gasdynamic or Magnetohydrodynamic, Better Explains CME Stand-off Distance Ratios from LASCO-C2 Observations ?

Jae-Ok Lee^{1,2}, **Y.-J. Moon**¹, **Jin-Yi Lee**³, **R.-S. Kim**², and **K.-S. Cho**²

2017 *ApJ* **838** 70

<http://sci-hub.cc/10.3847/1538-4357/aa656f>

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures

Edward M.B. Thiemann, **Francis G. Eparvier**, **Thomas N. Woods**

Journal of Space Weather and Space Climate 2017

<https://arxiv.org/pdf/1703.02995.pdf>

Global Energetics of Solar Flares and CMEs: V. Energy Closure

Markus J. Aschwanden, **Amir Campi**, **Christina M.S. Cohen**, **Gordon Holman**, **Ju Jing**, **Matthieu Kretzschmar**, **Eduard P. Kontar**, **James McTiernan**, **Richard A. Mewaldt**, **Aidan O'Flanagan**, **Ian G. Richardson**, **Daniel Ryan**, **Harry P. Warren**, **Yan Xu**

ApJ 2017

<https://arxiv.org/pdf/1701.01176v1.pdf>

Interplanetary Type IV Bursts

Alexander Hillaris, **Constantine Bouratzis**, **Alexander Nindos**

Solar Physics 2016

<http://arxiv.org/pdf/1604.07677v1.pdf> File

Dark Post-Flare Loops Observed by Solar Dynamics Observatory

Qiao Song, **Jing-Song Wang**, **Xueshang Feng**, **Xiaoxin Zhang**

ApJ 2016

<http://arxiv.org/pdf/1604.01510v1.pdf>

Study of Solar Energetic Particle Associations with Coronal Extreme-ultraviolet Waves

Jinhye Park¹, **D. E. Innes**², **R. Bucik**^{2,3}, **Y.-J. Moon**^{1,4}, and **S. W. Kahler**

2015 *ApJ* **808** 3

See presentation

https://community.apan.org/cfs-file.ashx/_key/telligent-evolution-components-attachments/13-7784-00-00-00-14-46-02/Park.pdf

Thermodynamic Spectrum of Solar Flares Based on SDO/EVE Observations: Techniques and First Results

Yuming Wang, **Zhenjun Zhou**, **Jie Zhang**, **Kai Liu**, **Rui Liu**, **Chenglong Shen**, **Phillip C. Chamberlin**

2015

<http://arxiv.org/pdf/1507.08895v1.pdf>

Low frequency radio observations of bi-directional electron beams in the solar corona

Eoin P. Carley, **Hamish Reid**, **Nicole Vilmer**, **Peter T. Gallagher**

2015

<http://arxiv.org/pdf/1508.01065v1.pdf>

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations

A. Nindos, **S. Patsourakos**, **A. Vourlidas**, **C. Tagikas**

ApJ 2015

<http://arxiv.org/pdf/1507.03766v1.pdf>

Type II and Type III Radio Bursts and their Correlation with Solar Energetic Proton Events
L.M. Winter, K. Ledbetter
ApJ 2015
<http://arxiv.org/pdf/1507.01620v1.pdf>

Major Solar Eruptions and High Energy Particle Events during Solar Cycle 24
N. Gopalswamy, H. Xie, S. Akiyama, P. Makela, S. Yashiro
2014, Earth, Planets, and Space, File
<http://arxiv.org/pdf/1408.3617v1.pdf>

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

Quasiperiodic acceleration of electrons by a plasmoid-driven shock in the solar atmosphere
Eoin P. Carley, David M. Long, Jason P. Byrne, Pietro Zucca, D. Shaun Bloomfield, Joseph McCauley, Peter T. Gallagher
(2013). Nature Physics, 9, 811-816
<http://arxiv.org/pdf/1406.0743v1.pdf> ; File (2014)

Advances in Observing Various Coronal EUV Waves in the SDO Era and Their Seismological Applications (Invited Review)
Wei Liu, Leon Ofman
E-print, April 2014; Solar Physics (Topical Issue, "Exploring the Network of SDO Science")
http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf

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

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

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study†
H. Xie, O. C. St. Cyr, N. Gopalswamy, D. Odstroil, H. Cremades
JGR, 2013, File

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

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

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

23.09

Circular-ribbon flares and the related activities

Review

[Qingmin Zhang](#)

Reviews of Modern Plasma Physics 2024

<https://arxiv.org/pdf/2401.16101.pdf>

A large-scale search for evidence of quasi-periodic pulsations in solar flares

A. R. Inglis, J. Ireland, B. R. Dennis, L. A. Hayes, P. T. Gallagher

ApJ 2016

<https://arxiv.org/pdf/1610.07454v1.pdf>

THE RELATIONSHIP BETWEEN EXTREME ULTRAVIOLET NON-THERMAL LINE BROADENING AND HIGH-ENERGY PARTICLES DURING SOLAR FLARES

T. Kawate^{1,2} and S. Imada

2013 ApJ 775 122

<http://arxiv.org/pdf/1308.3415v1.pdf>

Energetic Particle and Other Space Weather Events of Solar Cycle 24

N. Gopalswamy

E-print, Jan 2013, File; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G.

P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, 2012

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

Нет кадра 00:00

23-24 September

КОСМИЧЕСКАЯ ПОГОДА: ФАКТОРЫ РИСКА ДЛЯ ГЛОБАЛЬНЫХ НАВИГАЦИОННЫХ СПУТНИКОВЫХ СИСТЕМ

Review

Демьянов В.В., Ясюкевич Ю.В.

[СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 7 № 2 , 2021, С. 24–29](#)

<https://naukaru.ru/ru/storage/viewWindow/72945>

Solar Activity from 2006 to 2014 and Short-term Forecasts of Solar Proton Events Using the ESPERTA Model

T. Alberti¹, M. Laurenza², E. W. Cliver³, M. Storini², G. Consolini², and F. Lepreti

2017 ApJ 838 59 File

<http://sci-hub.cc/10.3847/1538-4357/aa5cb8>

Observation of a Quasi-periodic Pulsation in Hard X-ray, Radio and Extreme-ultraviolet Wavelengths

Pankaj Kumar, Valery M. Nakariakov, Kyung-Suk Cho

ApJ 2016

<http://arxiv.org/pdf/1603.03121v1.pdf>

23-29 Sept

Solar Flare Intensity Prediction with Machine Learning Models

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

Space Weather 2019

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

24 Sept – 09:41: X1.9 вспышка, **пересвет** на STEREO-B, $B=108*2/280= 0,77$

Гречнев нашёл 12:56: M7.1 вспышка, пересвет на STEREO-B, $B=17*2/280=0.12$

Вставить Многоэлементный пересвет

17:31: M3.1 вспышка, пересвет на STEREO-B, $B=18*2/280=0.13$

18:16: M2.8 пересвет $B=21*2/280=0.15$ $\leftarrow 16s$ $8s \rightarrow B=21/280=0.075$

19:36: M3.0 вспышка, пересвет на STEREO-B, $B=21*2/280=0.15$

20:37: M5.8 вспышка, пересвет на STEREO-B, $B=32*2/280=0.23$

21:36: M1.2 вспышка, пересвет на STEREO-A, $A=14*2/312=0.09$

24.09 - Region 11302 (N12E60) has produced 2 major events so far today, first an **impulsive X1.9 flare** at 09:40 with a strong hard radio burst and a small CME, **gamma flare**, then the more important M7.1 long duration event peaking at 13:20 UTC. The latter event was associated with a coronal wave, large, bright and wide CME which appears to be asymmetrical full halo in LASCO.

Геомагнитная буря 26-ого с Dst~117 нТл

See http://msslxr.mssl.ucl.ac.uk:8080/SolarB/nuggets/nugget_2011dec.jsp

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

Solar radio bursts impact on the International GNSS Service Network during Solar Cycle 24

Manuel Flores-Soriano*

J. Space Weather Space Clim. 2024, 14, 32

<https://www.swsc-journal.org/articles/swsc/pdf/2024/01/swsc240021.pdf>

Deciphering the Evolution of Thermodynamic Properties and their Connection to the Global Kinematics of High-Speed Coronal Mass Ejections Using FRIS Model

[Soumyaranjan Khuntia](#), [Wageesh Mishra](#), [Yuming Wang](#), [Sudheer K Mishra](#), [Teresa Nieves-Chinchilla](#), [Shaoyu Lyu](#)

MNRAS 2024

<https://arxiv.org/pdf/2411.03639>

Unraveling the Thermodynamic Enigma between Fast and Slow Coronal Mass Ejections

[Soumyaranjan Khuntia](#), [Wageesh Mishra](#), [Sudheer K Mishra](#), [Yuming Wang](#), [Jie Zhang](#), [Shaoyu Lyu](#)

ApJ 2023

<https://arxiv.org/pdf/2310.06750.pdf>

Observational Analysis of Lyman-alpha Emission in Equivalent Magnitude Solar Flares

[Harry J. Grotorex](#), [Ryan O. Milligan](#), [Phillip C. Chamberlin](#)

ApJ 2023

<https://arxiv.org/pdf/2306.16234.pdf>

Imaging Preflare Broadband Pulsations in the Decimetric-metric Wavelengths

[Maoshui Lv](#), [Baolin Tan](#), [Ruisheng Zheng](#), [Zhao Wu](#), [Bing Wang](#), [Xiangliang Kong](#), [Yao Chen](#)

ApJ 2023

<https://arxiv.org/pdf/2304.11785.pdf>

Data-constrained MHD Simulation of a Multi-ribbon Flare Corresponding to a Successful and a Confined Eruption

Wentai Fu^{1,2}, Yang Guo^{1,2}, Mingde Ding^{1,2}, Ze Zhong³, and Ye Qiu^{1,2}

2023 ApJ 944 179

<https://iopscience.iop.org/article/10.3847/1538-4357/acb6fb/pdf>

Highly Energetic Electrons Accelerated in Strong Solar Flares as a Preferred Driver of Sunquakes

[H. Wu](#), [Y. Dai](#), [M. D. Ding](#)

ApJL 2023

<https://arxiv.org/pdf/2301.02865.pdf>

Spatially Resolved Moving Radio Burst in Association with an EUV Wave

[Lei Lu](#), [Li Feng](#), [Weiqun Gan](#)

ApJL 2022

<https://arxiv.org/pdf/2205.03047.pdf>

Type IV Radio Bursts and Associated Active Regions in the Sunspot Cycle 24

[Anshu Kumari](#)

Solar Phys. 2022

<https://arxiv.org/pdf/2205.02482.pdf>

An Observational Revisit of Stationary Type IV Solar Radio Bursts

[Maoshui Lv](#), [Yao Chen](#), [V. Vasanth](#), [Mohd Shazwan Radzi](#), [Zamri Zainal Abidin](#) & [Christian Monstein](#)

Solar Physics volume 296, Article number: 38 (2021)

<https://link.springer.com/content/pdf/10.1007/s11207-021-01769-6.pdf>

Validation of the SMOS mission for Space Weather operations: The potential of near real-time solar observation at 1.4 GHz

[M. Flores-Soriano](#), [C. Cid](#), [R. Crapolicchio](#)

Space Weather e2020SW002649 2021

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2020SW002649>

<https://doi.org/10.1029/2020SW002649>

Comparing Long-Duration Gamma-Ray Flares and High-Energy Solar Energetic Particles

[G. A. de Nolfo](#), [A. Bruno](#), [J. M. Ryan](#), [S. Dalla](#), [J. Giacalone](#), [I. G. Richardson](#), [E. R. Christian](#), [S. J. Stochaj](#), [G. A. Bazilevskaya](#), [M. Boezio](#), [M. Martucci](#), [V. V. Mikhailov](#), [R. Munini](#)

ApJ 2019

<https://arxiv.org/pdf/1905.12878.pdf> File

HIGH-ENERGY GAMMA-RAY OBSERVATIONS OF SOLAR FLARES WITH THE FERMI LARGE AREA TELESCOPE **Thesis Catalog** (2010-2017)

Allafort, **A. J.**

(2018). **PhD thesis**, Stanford Univ. File

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

A Solar Stationary Type IV Radio Burst and Its Radiation Mechanism

[Hongyu Liu](#), [Yao Chen](#), [Kyungsuk Cho](#), [Shiwei Feng](#), [Veluchamy Vasanth...](#)

Solar Physics April 2018, 293:58

<https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1280-v.pdf>

A Statistical Study of the Magnetic Imprints of X-Class Flares using SDO/HMI Vector Magnetograms

[Zekun Lu](#), [Weiguang Cao](#), [Gaoxiang Jin](#), [Yining Zhang](#), [Mingde Ding](#), [Yang Guo](#)

ApJ 2018

<https://arxiv.org/pdf/1803.08310.pdf>

Characteristics of Sustained >100 γ -ray Emission Associated with Solar Flares

[G. H. Share](#), [R. J. Murphy](#), [A. K. Tolbert](#), [B. R. Dennis](#), [S. M. White](#), [R. A. Schwartz](#), and [A. J. Tylka](#)

ApJ Supplement 2017

http://www.astro.umd.edu/~share/publications/share_2017.pdf File

The Characteristics of Solar X-Class Flares and CMEs: A Paradigm for Stellar Superflares and Eruptions?

Louise K. [Harra](#), Carolus J. Schrijver, Miho Janvier, Shin Toriumi, Hugh Hudson, Sarah Matthews, Magnus M. Woods, Hirohisa Hara, Manuel Guedel, Adam Kowalski, Rachel Osten, Kanya Kusano, Theresa Lueftinger
Solar Phys. 2016 Open Access File

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics

Markus J. [Aschwanden](#)

ApJ 2016

<http://arxiv.org/pdf/1605.04952v1.pdf> File

http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

Interplanetary Type IV Bursts

Alexander [Hillaris](#), Constantine Bouratzis, Alexander Nindos

Solar Physics 2016

<http://arxiv.org/pdf/1604.07677v1.pdf> File

Dark Post-Flare Loops Observed by Solar Dynamics Observatory

Qiao [Song](#), Jing-Song Wang, Xueshang Feng, Xiaoxin Zhang

ApJ 2016

<http://arxiv.org/pdf/1604.01510v1.pdf>

Numerical Simulation of Multiple CME-Driven Shocks in the Month of 2011 September†

Chin-Chun [Wu](#), Kan Liou, Angelos Vourlidas, Simon Plunkett, Murray Dryer, S. T. Wu, Dennis Socker, Brian E. Wood, Lynn Hutting, Russell A. Howar

JGR 2016

Performance assessment of GPS receivers during the September 24, 2011 solar radio burst event

Bilal [Muhammad](#)^{1*}, Valentina Alberti², Alessandro Marassi², Ernestina Cianca¹ and Mauro Messerotti²

J. Space Weather Space Clim., 5, A32 (2015)

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

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations

A. [Nindos](#), S. Patsourakos, A. Vourlidas, C. Tagikas

ApJ 2015

<http://arxiv.org/pdf/1507.03766v1.pdf>

Observation of solar high energy gamma and X-ray emission and solar energetic particles

Alexei [Struminsky](#), Weiqun Gan

24th European Cosmic Ray Symposium, Kiel, September 2014, 2015

Solar Flare Chromospheric Line Emission: Comparison Between IBIS High-resolution Observations and Radiative Hydrodynamic Simulations

Fatima Rubio da Costa, Lucia Kleint, Vah? Petrosian, Alberto Sainz Dalda, Wei Liu

2014

<http://arxiv.org/pdf/1412.1815v1.pdf>

Unresolved Fine-scale Structure in Solar Coronal Loop-tops

E. [Scullion](#)^{1,2}, L. Rouppe van der Voort¹, S. Wedemeyer¹, and P. Antolin

2014 ApJ 797 36

<http://arxiv.org/pdf/1409.1920v1.pdf>

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

Janusz [Nicewicz](#), , Grzegorz Michalek

Advances in Space Research, 2014

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

Advances in Observing Various Coronal EUV Waves in the SDO Era and Their Seismological Applications (**Invited Review**)
Wei Liu, Leon Ofman
E-print, April 2014; Solar Physics (Topical Issue, "Exploring the Network of SDO Science")
http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf

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

Solar Flare Impulsive Phase Emission Observed with SDO/EVE
Michael B. Kennedy¹, Ryan O. Milligan^{1,2,3}, Mihalis Mathioudakis¹, and Francis P. Keenan
2013 ApJ 779 84
<http://arxiv.org/abs/1310.4649>

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

Impact of the 24 September 2011 solar radio burst on the performance of GNSS receivers
V. Sreeja^{1,*}, M. Aquino, 1, Kees de Jong
Space Weather, Volume 11, Issue 5, pages 306–312, May 2013

HIGH-ENERGY GAMMA-RAY EMISSION FROM SOLAR FLARES: SUMMARY OF FERMI LAT DETECTIONS AND ANALYSIS OF TWO M-CLASS FLARES
M. Ackermann², M. Ajello³, A. Albert⁴, A. Allafort^{5,1}, L. Baldini⁶, G. Barbiellini^{7,8}, D. Bastieri et al.
Fermi-LAT collaboration
E-print, April 2013, File; ApJ

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

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

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

SIMULTANEOUS OBSERVATIONS OF A LARGE-SCALE WAVE EVENT IN THE SOLAR ATMOSPHERE: FROM PHOTOSPHERE TO CORONA

Yuandeng Shen^{1,2} and Yu Liu
2012 *ApJ* 752 L23, File

A SOLAR TORNADO OBSERVED BY AIA/SDO: ROTATIONAL FLOW AND EVOLUTION OF
MAGNETIC HELICITY IN A PROMINENCE AND CAVITY

Xing Li¹, Huw Morgan^{1,2}, Drew Leonard¹, and Lauren Jeska
2012 *ApJ* 752 L22, File

Charge-exchange Limits on Low-energy α -particle Fluxes in Solar Flares

Hudson, H. S.; Fletcher, L.; MacKinnon, A. L.; Woods, T. N.

E-print, Feb 2014; *ApJ* 752, 84 (2012)

<http://arxiv.org/pdf/1401.6477v1.pdf>

24-26 Sep

The magnetic origin of the mystery of rare $H\alpha$ 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>

On the Physical Nature of the so-Called Prominence Tornadoes

Review

Stanislav [Gunár](#), [Nicolas Labrosse](#), [Manuel Luna](#), [Brigitte Schmieder](#), [Petr Heinzel](#), [Therese A. Kucera](#), [Peter J. Levens](#), [Arturo López Ariste](#), [Duncan H. Mackay](#) & [Maciej Zapiór](#)

Space Science Reviews volume 219, Article number: 33 (2023)

<https://link.springer.com/content/pdf/10.1007/s11214-023-00976-w.pdf>

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

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

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

AI-FLARES: Artificial Intelligence for the Analysis of Solar Flares Data

Review

[Michele Piana](#), [Federico Benvenuto](#), [Anna Maria Massone](#), [Cristina Campi](#), [Sabrina Guastavino](#), [Francesco Marchetti](#), [Paolo Massa](#), [Emma Perracchione](#), [Anna Volpara](#)

2024

<https://arxiv.org/pdf/2401.01104.pdf>

Thermal and Non-Thermal Properties of Active Region Recurrent Coronal Jets

[Alin R. Paraschiv](#), [Alina C. Donea](#), [Philip G. Judge](#)

ApJ 2022

<https://arxiv.org/pdf/2207.12612.pdf>

ПРЕДВЕСТНИКИ СОЛНЕЧНЫХ ВСПЫШЕК В МИКРОВОЛНОВОМ ДИАПАЗОНЕ

Абрамов-Максимов В.Е., Бакунина И.А.

Изв. КРАО Том: 117 Номер: 1 Год: 2021 Страницы: 38-43

Quasi-Periodic Pulsations Detected in Ly α and Nonthermal Emissions During Solar Flares
[Lei Lu](#), [Dong Li](#), [Zongjun Ning](#), [Li Feng](#), [Weiqun Gan](#)
Solar Phys. 2021
<https://arxiv.org/pdf/2108.03820.pdf>

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

A Very Narrow RHESSI X-ray Flare on 25 September 2011
[Brian R. Dennis](#), [Anne K. Tolbert](#)
ApJ 2019
<https://arxiv.org/pdf/1910.13308.pdf>

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

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

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

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

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

Solar Magnetic Flux Ropes Review
[Boris Filippov](#), [Olesya Martsenyuk](#), [Abhishek K. Srivastava](#), and [Wahab Uddin](#)
Journal of Astrophysics & Astronomy, 2015
<http://arxiv.org/ftp/arxiv/papers/1501/1501.02562.pdf>

A Study of Connections Between Solar Flares and Subsurface Flow Fields of Active Regions
[Yu Gao](#), [Junwei Zhao](#), [Hongqi Zhang](#)

Solar Physics, February 2014, Volume 289, Issue 2, pp 493-502

THE RELATIONSHIP BETWEEN EXTREME ULTRAVIOLET NON-THERMAL LINE BROADENING AND HIGH-ENERGY PARTICLES DURING SOLAR FLARES

T. Kawate^{1,2} and S. Imada

2013 ApJ 775 122

<http://arxiv.org/pdf/1308.3415v1.pdf>

Apparent Solar Tornado - Like Prominences

Olga Panasenco, Sara F. Martin, Marco Velli

E-print, July 2013, Solar Phys.

A solar tornado triggered by flares?

N. K. Panesar, D. E. Innes, S. K. Tiwari, B. C. Low

E-print, Nov 2012; File; A&A

A SOLAR TORNADO OBSERVED BY AIA/SDO: ROTATIONAL FLOW AND EVOLUTION OF MAGNETIC HELICITY IN A PROMINENCE AND CAVITY

Xing Li¹, Huw Morgan^{1,2}, Drew Leonard¹, and Lauren Jeska

2012 ApJ 752 L22

A huge solar tornado observed by Solar Dynamic Observatory

Xing Li, Huw Morgan, Drew Leonard and Lauren Jeska

UKSP nugget – 22, April 2012

<http://www.uksolphys.org/?p=4457>

25-26 September

Pathways of large-scale magnetic couplings between coronal events

C.J. Schrijver, A.M. Title, A.R. Yeates and M.L. DeRosa

E-print, May 2013, File; ApJSS

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

26 Sept

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

Manu Gupta, J. K. Thalmann, A. M. Veronig

A&A 2024

<https://arxiv.org/pdf/2402.12254.pdf>

Radio bursts observed during solar eruptive flares and their schematic summary

Review

Marian Karlický

2023

<https://arxiv.org/pdf/2307.07144.pdf>

Multiwavelength Signatures of Episodic Null Point Reconnection in a Quadrupolar Magnetic Configuration and the Cause of Failed Flux Rope Eruption

Prabir K. Mitra (USO/PRL, India), Bhuwan Joshi (USO/PRL, India), Astrid M. Veronig (Univ. of Graz, Austria), Thomas Wiegmann (MPIS, Germany)

ApJ 2022

<https://arxiv.org/pdf/2112.14412.pdf>

Magnetic helicity and energy budget around large confined and eruptive solar flares

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

A&A 2021

<https://arxiv.org/pdf/2106.08781.pdf>

Relationships between Photospheric Vertical Electric Currents and Hard X-Ray Sources in Solar Flares: Statistical Study

[I.V. Zimovets](#), [I.N. Sharykin](#), [W.Q. Gan](#)

ApJ 2020

<https://arxiv.org/pdf/2002.06646.pdf>

Diagnosing the Source Region of a Solar Burst on 26 September 2011 by Microwave Type III Pairs

[Baolin Tan](#), [Marian Karlicky](#), [Hana Meszarosova](#), [Larisa Kashapova](#), [Jing Huang](#), [Yan Yan](#), [Eduard P. Kontar](#)

Solar Phys. 2016

<http://arxiv.org/pdf/1606.05410v1.pdf>

Numerical Simulation of Multiple CME-Driven Shocks in the Month of 2011 September†

[Chin-Chun Wu](#), [Kan Liou](#), [Angelos Vourlidas](#), [Simon Plunkett](#), [Murray Dryer](#), [S. T. Wu](#), [Dennis Socker](#), [Brian E. Wood](#), [Lynn Hutting](#), [Russell A. Howar](#)

JGR 2016

Microwave Type III Pair Bursts in Solar Flares

[Baolin Tan](#), [Hana Meszarosova](#), [Marian Karlicky](#), [Guangli Huang](#), [Chengming Tan](#)

ApJ 2016

<http://arxiv.org/pdf/1601.05312v1.pdf>

Impulsive Energy Release and Non-thermal Emission in a Confined M4.0 Flare Triggered by Rapidly Evolving Magnetic Structures

[Upendra Kushwaha](#)¹, [Bhuwan Joshi](#)¹, [Kyung-Suk Cho](#)², [Astrid Veronig](#)³, [Sanjiv Kumar Tiwari](#)⁴, and [S. K. Mathew](#)

2014 ApJ 791 23

26-27 Sep

Properties of Forbush Decreases with AMS-02 Daily Proton Flux Data

[Siqi Wang](#)¹, [Veronica Bindi](#)¹, [Cristina Consolandi](#)¹, [Claudio Corti](#)¹, [Christopher Light](#)¹, [Nikolay Nikonov](#)¹, and [Andrew Kuhlman](#)¹

2023 ApJ 950 23

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

Analysis of Geoeffective Impulsive Events on the Sun During the First Half of Solar Cycle 24

[Agnieszka Gil](#), [Monika Berendt-Marchel](#), [Renata Modzelewska](#), [Agnieszka Siluszyk](#), [Marek Siluszyk](#), [Anna Wawrzaszek](#) & [Anna Wawrzynczak](#)

[Solar Physics](#) volume 298, Article number: 26 (2023)

<https://link.springer.com/content/pdf/10.1007/s11207-023-02119-4.pdf>

27 September

Automatic Detection of Magnetic delta in Sunspot Groups

[Sreejith Padinhatteeri](#), [Paul A. Higgins](#), [D. Shaun Bloomfield](#), [Peter T. Gallagher](#)

Solar Phys. 2015
<http://arxiv.org/pdf/1510.06413v1.pdf>

Energetic Particle and Other Space Weather Events of Solar Cycle 24

N. Gopalswamy

E-print, Jan 2013, File; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, 2012

28 Sept

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics

Markus J. Aschwanden

ApJ 2016

<http://arxiv.org/pdf/1605.04952v1.pdf> File

http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

Properties of Supersonic Evershed Downflows

Sara Esteban Pozuelo, Luis R. Bellot Rubio, Jaime de la Cruz Rodriguez

ApJ 2016

<http://arxiv.org/pdf/1609.01106v1.pdf>

Lateral downflows in sunspot penumbral filaments and their temporal evolution

S. Esteban Pozuelo, L. R. Bellot Rubio, J. de la Cruz Rodriguez

ApJ 2015

<http://arxiv.org/pdf/1502.02981v1.pdf>

Relationship Between Solar Coronal X-Ray Brightness and Active Region Magnetic Fields: A Study Using High Resolution Observations

Soumitra Hazra, Dibyendu Nandy, B Ravindra

2014

<http://arxiv.org/pdf/1406.1683v1.pdf>

29 Sept

Is There a Dynamic Difference between Stealthy and Standard Coronal Mass Ejections?

Beili Ying¹, Alessandro Bemporad^{2,1}, Li Feng^{1,3}, Nariaki V. Nitta⁴, and Weiqun Gan^{1,3}

2023 ApJ 942 3

<https://iopscience.iop.org/article/10.3847/1538-4357/aca52c/pdf>

Strong Blue Asymmetry in H α Line as a Preflare Activity

Kyuhyun Cho, Jeongwoo Lee, Jongchul Chae, [Haimin Wang](#), [Kwangsu Ahn](#),

[Heesu Yang](#), [Eun-kyung Lim](#), [Ram Ajour Maurya](#)

Solar Phys. 2016

Active Region Coronal Rain Event Observed by the Fast Imaging Solar Spectrograph on the NST

Kwangsu Ahn, Jongchul Chae, Kyung-Suk Cho, Donguk Song, Heesu Yang, Philip R. Goode, Wenda Cao, Hyungmin Park, Jakyung Nah, Bi-Ho Jang, Young-Deuk Park

Solar Physics, Volume 289, Issue 11, pp 4117-4136 2014

29 Sept – 2 Oct

STUDY OF THE RECURRING DIMMING REGION DETECTED AT AR 11305 USING THE CORONAL DIMMING TRACKER (CoDiT)

Larisa D. Krista^{1,2} and Alysha Reinard

30 Sep

Investigating pre-eruptive magnetic properties at the footprints of erupting magnetic flux ropes

[Wensi Wang](#), [Jiong Qiu](#), [Rui Liu](#), [Chunming Zhu](#), [Kai E Yang](#), [Qiang Hu](#), [Yuming Wang](#)

ApJ 2022

<https://arxiv.org/pdf/2211.15909.pdf>

Advances in Observing Various Coronal EUV Waves in the SDO Era and Their Seismological Applications ([Invited Review](#))

[Wei Liu](#), [Leon Ofman](#)

E-print, April 2014; Solar Physics (Topical Issue, "Exploring the Network of SDO Science")

http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections

[N. Gopalswamy](#), [H. Xie](#), [P. Makela](#), [S. Yashiro](#), [S. Akiyama](#), [W. Uddin.](#), [A. K. Srivastava](#), [N. C. Joshi](#), [R. Chandra](#), [P. K. Manoharan](#), [K. Mahalakshmi](#), [V. C. Dwivedi](#), [R. Jain](#) and [A. K. Awasthi](#), [N. V. Nitta](#), [M. J. Aschwanden](#), [D. P. Choudhary](#)

E-print, Jan 2013; Adv. Space Res.

A FAST PROPAGATING EXTREME-ULTRAVIOLET WAVE ASSOCIATED WITH A MINI-FILAMENT ERUPTION

[Ruisheng Zheng](#), [Yunchun Jiang](#), [Jiayan Yang](#), [Yi Bi](#), [Junchao Hong](#), [Dan Yang](#), and [Bo Yang](#)
2012 ApJ 753, 112

Oct 2011

Evolution of the Magnetic Helicity Flux during the Formation and Eruption of Flux Ropes

[P. Romano](#)¹, [F. P. Zuccarello](#)^{2,3,4}, [S. L. Guglielmino](#)⁵, and [F. Zuccarello](#)

2014 ApJ 794 118 NOAA 11318

1 Oct, ~09:50 – Заметная центральная эрупция, M1 вспышка, корональная волна, Earth directed CME

On October 1st around 10:17 UT, widely-spaced sunspots 1302 and 1305 erupted in quick succession, revealing a long-distance entanglement which was not obvious before. SDO recorded the double blast:

Large-scale Coronal Dimming Foreshadowing a Solar Eruption on 2011 October 1

[Chunming Zhu](#)¹, [C. Richard DeVore](#)², [Joel T. Dahlin](#)^{2,3}, [Jiong Qiu](#)¹, [Maria D. Kazachenko](#)^{4,5}, [Vadim M. Uritsky](#)^{2,6}, and [Jackson S. Vandervelde](#)^{2,7}

2024 ApJ 961 218

<https://iopscience.iop.org/article/10.3847/1538-4357/ad1603/pdf>

Coronal dimmings as indicators of early CME propagation direction

[Shantanu Jain](#), [Tatiana Podladchikova](#), [Galina Chikunova](#), [Karin Dissauer](#), [Astrid M. Veronig](#)

A&A 2023

<https://arxiv.org/pdf/2311.13942.pdf>

Localised acceleration of energetic particles by a weak shock in the solar corona

[David M. Long](#), [Hamish A. S. Reid](#), [Gherardo Valori](#), [Jennifer O'Kane](#)

ApJ 2021

<https://arxiv.org/pdf/2108.05068.pdf>

Coronal dimmings associated with coronal mass ejections on the solar limb
Galina Chikunova, [Karin Dissauer](#), [Tatiana Podladchikova](#), [Astrid M. Veronig](#)
ApJ 2020
<https://arxiv.org/pdf/2005.03348.pdf> File

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

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

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

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

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS.
I. THE CASE FOR BLAST WAVES
T. A. Howard¹ and **V. J. Pizzo**
2016 ApJ 824 92 File

1-2 Oct

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

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

Magnetic Flux of Active Regions Determining the Eruptive Character of Large Solar Flares
Ting Li, [Yijun Hou](#), [Shuhong Yang](#), [Jun Zhang](#), [Lijuan Liu](#), [Astrid M. Veronig](#)
ApJ 2020
<https://arxiv.org/pdf/2007.08127.pdf>

Quantifying the Toroidal Flux of Pre-existing Flux Ropes of CMEs
C. Xing, [X. Cheng](#), [Jiong Qiu](#), [Qiang Hu](#), [E. R. Priest](#), [M. D. Ding](#)

ApJ 2020
<https://arxiv.org/pdf/1912.10623.pdf>

Statistics of coronal dimmings associated with coronal mass ejections.
II. Relationship between coronal dimmings and their associated CMEs
Karin Dissauer, Astrid M. Veronig, Manuela Temmer, Tatiana Podladchikova
ApJ 2018
<https://arxiv.org/pdf/1810.01589.pdf>

A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures
Edward M.B. Thiemann, Francis G. Eparvier and Thomas N. Woods
J. Space Weather Space Clim. 2017, 7, A36
<https://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc170050.pdf>
<https://arxiv.org/pdf/1703.02995.pdf>

A STEREO Survey of Magnetic Cloud Coronal Mass Ejections Observed at Earth in 2008--2012
Brian E. Wood, Chin-Chun Wu, Ronald P. Lepping, Teresa Nieves-Chinchilla, Russell A. Howard, Mark G. Linton, Dennis G. Socker
Astrophysical Journal Supplement 2017 File
<https://arxiv.org/pdf/1701.01682v1.pdf>

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS.
I. THE CASE FOR BLAST WAVES
T. A. Howard¹ and V. J. Pizzo
2016 ApJ 824 92 File

3 Oct

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

3-17 Oct

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

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

Reverse Current Model for Coronal Mass Ejection Cavity Formation
Magnus A. Haw¹, Pakorn Wongwaitayakornkul¹, Hui Li², and Paul M. Bellan¹
2018 ApJL 862 L15
<http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/2041-8213/aad33c/meta>

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

~5 Oct

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations

Richard A. **Harrison**, [Jackie A. Davies](#), [David Barnes](#), [Christian Möstl](#)

Space Weather 2023

<https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf>

Automatic Detection of Interplanetary Coronal Mass Ejections in Solar Wind In Situ Data

Hannah T. Rüdisser, [Andreas Windisch](#), [Ute V. Amerstorfer](#), [Christian Möstl](#), [Tanja](#)

[Amerstorfer](#), [Rachel L. Bailey](#), [Martin A. Reiss](#)

Space Weather 2022

<https://arxiv.org/pdf/2205.03578.pdf>

An Observational Revisit of Stationary Type IV Solar Radio Bursts

[Maoshui Lv](#), [Yao Chen](#), [V. Vasanth](#), [Mohd Shazwan Radzi](#), [Zamri Zainal Abidin](#) & [Christian Monstein](#)

[Solar Physics](#) volume 296, Article number: 38 (2021)

<https://link.springer.com/content/pdf/10.1007/s11207-021-01769-6.pdf>

Oscillations Above Sunspots and Faculae: Height Stratification and Relation to Coronal Fan Structure

N.I. Kobanov, **D.Y. Kolobov**, **A.A. Chelpanov**

2014

<http://arxiv.org/pdf/1411.6258v1.pdf>

5-7 Oct

Solar Energetic Particle Events and Forbush Decreases Driven by the Same Solar Sources

Belov, Anatoly ; [Shlyk, Nataly](#) ; [Abunina, Maria](#) ; [Belova, Elena](#) ; [Abunin, Artem](#) ; [Papaioannou, Athanasios](#)

Universe 2022, 8(8), 403;

<https://doi.org/10.3390/universe8080403>

<https://www.mdpi.com/2218-1997/8/8/403/pdf>

6 Oct

Light Bridges Can Suppress the Formation of Coronal Loops

[Yuhu Miao](#), [Libo Fu](#), [Xian Du](#), [Ding Yuan](#), [Chaowei Jiang](#), [Jiangtao Su](#), [Mingyu Zhao](#), [Sergey Anfinogentov](#)

MNRAS 2021

<https://arxiv.org/pdf/2106.12833.pdf>

Peculiarity of the oscillation stratification in sunspot penumbrae

D.Y. Kolobov, **A.A. Chelpanov**, **N.I. Kobanov**

2016

<http://arxiv.org/pdf/1607.06175v1.pdf>

6-7 Oct

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

[Z. M. Vashalomidze](#) (1), [T. V. Zagharashvili](#) (1,2,3), [V. D. Kukhianidze](#) (1)

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

8-11 Oct

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

Junwei Zhao

HMI Science Nuggets #43 Sept 2015

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

9-10 Oct

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

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

Solar Phys. 2015

<http://arxiv.org/pdf/1506.01848v1.pdf>

10 Oct

Inter-Correlation Between Sunspot Oscillations and Their Internal Structures

Libo Fu, Zizhan Zhu, Ding Yuan, Jiaoyang Wang, Song Feng, Sergey Anfinogentov

Research in Astronomy and Astrophysics 2022

<https://arxiv.org/pdf/2209.05982.pdf>

Modeling of the sunspot-associated microwave emission using a new method of DEM inversion

C. E. Alissandrakis, V. M. Bogod, T. I. Kaltman, S. Patsourakos, N. G. Peterova

Solar Phys. 2018

<https://arxiv.org/pdf/1812.05751.pdf>

Modeling of Solar Atmosphere Parameters Above Sunspots Using RATAN-600 Microwave Observations

A. G. Stupishin, T. I. Kaltman, V. M. Bogod, L. V. Yasnov

Solar Physics January 2018, 293:13

<https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1228-7.pdf>

The Relation Between Large-Scale Coronal Propagating Fronts and Type II Radio Bursts

Nariaki V. Nitta, Wei Liu, Nat Gopalswamy, Seiji Yashiro

Solar Phys., 2014

http://www.lmsal.com/nitta/publ/SP_typeII_20140904.pdf

<http://arxiv.org/pdf/1409.4754v1.pdf> File

Середина октября 2011 – областей много, а вспышек нет.

11 Oct

The Quantitative Relation of the Time Profiles of Intensities in the Well-connected Solar Energetic Particle Events

Yang Wang¹, Dan Lyu¹, Xinghui Wu¹, and Gang Qin¹

2022 ApJ 940 67

<https://iopscience.iop.org/article/10.3847/1538-4357/ac99da/pdf>

Temperature and Density Structure of a Recurring Active Region Jet

Sargam M. Mulay, Giulio Del Zanna, Helen Mason

A&A 2016

<http://arxiv.org/pdf/1609.08472v1.pdf>

Investigating the differential emission measure and energetics of microflares with combined SDO/AIA and RHESSI observations

A. R. Inglis, S. Christe

2014, **ApJ**

<http://arxiv.org/pdf/1405.5262v1.pdf>

11-13 Oct

Direct evidence: twisted flux tube emergence creates solar active regions

David MacTaggart, Chris Prior, Breno Raphaldini, Paolo Romano, Salvatore Guglielmino

2021

<https://arxiv.org/ftp/arxiv/papers/2106/2106.11638.pdf>

12 Oct

Can We Determine the Filament Chirality by the Filament Footpoint Location or the Barb-bearing?

Q. Hao, Y. Guo, C. Fang, P. F. Chen, W. Cao

RAA 2015

<http://arxiv.org/pdf/1506.08490v1.pdf>

13 Oct

Association between tornadoes and hosting prominence instability

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

ApJ 2018

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

14 Oct

Coronal Condensation in Funnel Prominences as Return Flows of the Chromosphere-Corona Mass Cycle

Liu, Wei; Berger, Thomas E.; and Low, B. C.

2014/01, *Nature of Prominences and their role in Space Weather, Proceedings of the International Astronomical Union, IAU Symposium, Volume 300*, pp. 441-442

http://sun.stanford.edu/~weiliu/research/publications/2013/2014IAUS_Liu_Berger_Low_funnel-prom.pdf

15 Oct

Photospheric signatures of CME onset

O P M Aslam, D MacTaggart, T Williams, L Fletcher, P Romano

MNRAS, Volume 534, Issue 1, October 2024, Pages 444–454,

<https://doi.org/10.1093/mnras/stae2110>

<https://watermark.silverchair.com/stae2110.pdf>

<https://arxiv.org/pdf/2409.07261>

A swirling flare-related EUV jet

Q. M. Zhang and H. S. Ji

E-print, Dec 2013, *A&A*

17 Oct

Multiwavelength study of twenty jets emanating from the periphery of active regions

Sargam M. Mulay, Durgesh Tripathi, Giulio Del Zanna, Helen Mason

A&A 2016

18 Oct

Two-step solar filament eruptions

Boris Filippov

MNRAS 2017

<https://arxiv.org/pdf/1712.08173.pdf>

A Quiet Sun Transition Region Energetically Isolated Jet: Evidence to Cool Plasma Injections Into The Hot Corona

N. Brice [Orange](#), David L. Chesny, Hakeem M. Oluseyi

2015

<http://arxiv.org/pdf/1501.05211v1.pdf>

19 Oct **залимбовый пересвет** 06:16 ←16s 8s→A=80/312=0.26

8s→ 06:21 A=42*2/312=0.27

19-24 Oct

Magnetic helicity and energy of emerging solar active regions and their eruptivity

E. Liokati (1), [A. Nindos](#) (1), [Y. Liu](#) (2)

A&A 2022

<https://arxiv.org/pdf/2202.04353.pdf>

20 Oct – 03:21: M1.6 вспышка, **пересвет** на STEREO-A, A=31*2/312=0,2

Потусторонняя вспышка: N18W101 Carr. Long 99 Внесена в [Table_2](#)

20 Oct, ~04 – эрупция из NW залимбовой области; CME, на STEREO-A корональная волна

Early-stage Solar Energetic Particle Acceleration by Coronal Mass Ejection-driven Shocks with Realistic Seed Spectra. I. Low Corona

Kamen A. [Kozarev](#)¹, Maher A. [Dayeh](#)^{2,3}, and Ashraf [Farahat](#)⁴

2019 *ApJ* 871 65

sci-hub.tw/10.3847/1538-4357/aaf1ce

The Solar X-Ray Limb

Marina [Battaglia](#)¹, Hugh S. Hudson^{2,3}, Gordon J. Hurford³, Säm Krucker^{1,3}, and Richard A. Schwartz⁴

2017 *ApJ* 843 123

<http://sci-hub.cc/10.3847/1538-4357/aa76da>

The Solar X-ray Limb III

Marina [Battaglia](#) and Hugh Hudson

RHESSI Science Nugget No. 302 June 2017

http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/The_Solar_X-ray_Limb_III

The Solar X-ray Limb

Marina [Battaglia](#), Hugh S. Hudson, Gordon J. Hurford, [Säm Krucker](#), [Richard A. Schwartz](#)

ApJ 2017

<https://arxiv.org/pdf/1705.11044.pdf>

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations

A. [Nindos](#), S. [Patsourakos](#), A. [Vourlidas](#), C. [Tagikas](#)

ApJ 2015

<http://arxiv.org/pdf/1507.03766v1.pdf>

20-22 Oct

Long-period oscillations of active region patterns: least-squares mapping on second-order curves

G. Dumbadze, B.M. Shergelashvili, V. Kukhianidze, G. Ramishvili, T.V. Zaqarashvili, M. Khodachenko, E. Gurgenashvili, S. Poedts, P. De Causmaecker
A&A 2016
<https://arxiv.org/pdf/1610.01509v1.pdf>

21 Oct – 13:06: M1.3 вспышка, **пересвет** на STEREO-A, $A=15*2/312=0,1$

21 Oct, ~08 – эрупция большого северного волокна, потемнение на 304 Å, CME?,
см. **STEREO-A**

Chromospheric Rapid Blueshifted Excursions Observed with IBIS and Their Association with Photospheric Magnetic Field Evolution
Na Deng, Xin Chen, Chang Liu, Ju Jing, Alexandra Tritschler, Kevin P. Reardon, Derek A. Lamb, Craig E. Deforest, Carsten Denker, Shuo Wang, Rui Liu, Haimin Wang
ApJ, 2015
<http://arxiv.org/pdf/1412.4038v1.pdf>

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

21-22 Oct
INTERRUPTED ERUPTION OF LARGE QUIESCENT FILAMENT ASSOCIATED WITH A HALO CME
S. Gosain¹, Boris Filippov², Ram Ajor Maurya^{3,4}, and Ramesh Chandra
2016 ApJ 821 85 DOI: 10.3847/0004-637X/821/2/85

22 Oct – 12:16: M1.3 **пересвет** $A=15*2/312=0,1$ $\leftarrow 16s$ $8s \rightarrow A=15/312=0.048$
Рекордная задержка по времени 66 мин на очень длинном LDE

22 Oct, ~00 – снова эрупция (продолжение) большого северного волокна, halo CME
~11 – M1.3 очень LDE вспышка из NW прилибмовой области; CME,
на STEREO-A корональная волна

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

http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List
Statistical Study of the Kinetic Features of Supra-arcade Downflows Detected from Multiple Solar Flares
Xiaoyan Xie^{1,2,3}, Katharine K. Reeves², Chengcai Shen², and Joshua D. Ingram^{4,2}
2022 ApJ 933 15
<https://iopscience.iop.org/article/10.3847/1538-4357/ac695d/pdf>

Current-sheet Oscillations Caused by Kelvin-Helmholtz Instability at the Loop Top of Solar Flares
[Yulei Wang, Xin Cheng, Zining Ren, Mingde Ding](https://arxiv.org/pdf/2205.10361.pdf)
ApJL 2022
<https://arxiv.org/pdf/2205.10361.pdf>

Predicting CMEs using ELEvoHI with STEREO-HI beacon data

Maike Bauer, [Tanja Amerstorfer](#), [Jürgen Hinterreiter](#), [Andreas J. Weiss](#), [Jackie A. Davies](#), [Christian Möstl](#), [Ute V. Amerstorfer](#), [Martin A. Reiss](#), [Richard A. Harrison](#)
Space Weather 2021
<https://arxiv.org/pdf/2108.08072.pdf>

Thermodynamic Evolution of Solar Flare Supra-arcade Downflows
Z. F. Li^{1,2}, X. Cheng^{1,2,3}, M. D. Ding^{1,2}, Katharine K. Reeves⁴, DeOndre Kittrell^{4,5}, Mark Weber⁴, and David E. McKenzie⁶
2021 ApJ 915 124
<https://arxiv.org/pdf/2107.09215.pdf>
<https://doi.org/10.3847/1538-4357/ac043e>

Investigation on the Spatiotemporal Structures of Supra-Arcade Spikes
[Rui Liu](#), [Yuming Wang](#)
A&A 2021
<https://arxiv.org/pdf/2106.04752.pdf>

Thermodynamical Evolution of Supra-Arcade Downflows
[Jianchao Xue](#), [Yang Su](#), [Hui Li](#), [Xiaozhou Zhao](#)
ApJ 2020
<https://arxiv.org/pdf/2007.11205.pdf>

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

Quantifying Turbulent Dynamics Found within the Plasma Sheets of Multiple Solar Flares
Michael S. Freed^{1,2} and David E. McKenzie^{1,3}
2018 ApJ 866 29
<http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/1538-4357/aadee4/meta>

Flux rope, hyperbolic flux tube, and late EUV phases in a non-eruptive circular-ribbon flare
S. Masson, E. Pariat, G. Valori, N. Deng, C. Liu, H. Wang, H. Reid
A&A 2017
<https://arxiv.org/pdf/1704.01450.pdf>

Fine structure and long duration of a flare coronal X-ray source with RHESSI and SDO/AIA data
Sylwester Kolomanski (1), Tomasz Mrozek (1 and 2), Ewa Chmielewska (1)
A&A 2017
<https://arxiv.org/pdf/1701.09127v1.pdf>

An exploration of heating mechanisms in a supra-arcade plasma sheet formed after a coronal mass ejection
Katharine K. Reeves, Michael S. Freed, David E. McKenzie, Sabrina L. Savage
ApJ 2017
<https://arxiv.org/pdf/1701.03497v1.pdf>

A STEREO Survey of Magnetic Cloud Coronal Mass Ejections Observed at Earth in 2008--2012
Brian E. Wood, Chin-Chun Wu, Ronald P. Lepping, [Teresa Nieves-Chinchilla](#), [Russell A. Howard](#), [Mark G. Linton](#), [Dennis G. Socker](#)
Astrophysical Journal Supplement 2017 File
<https://arxiv.org/pdf/1701.01682v1.pdf>

INFERRING THE MAGNETOHYDRODYNAMIC STRUCTURE OF SOLAR FLARE SUPRA-ARCADE PLASMAS FROM A DATA-ASSIMILATED FIELD TRANSPORT MODEL

Roger B. Scott, David E. McKenzie, and Dana W. Longcope

2016 ApJ 819 56

How Common are Hot Magnetic Flux Ropes in the Low Solar Corona? A Statistical Study of EUV Observations

A. Nindos, S. Patsourakos, A. Vourlidas, C. Tagikas

ApJ 2015

<http://arxiv.org/pdf/1507.03766v1.pdf>

Type II and Type III Radio Bursts and their Correlation with Solar Energetic Proton Events

L.M. Winter, K. Ledbetter

ApJ 2015

<http://arxiv.org/pdf/1507.01620v1.pdf>

Transit time of CME/shock associated with four major geo-effective CMEs in solar cycle 24

M. Syed Ibrahim, A. Shanmugaraju, M. Benedict Lawrance

Advances in Space Research, Volume 55, Issue 1, 1 January 2015, Pages 407–415

<http://www.sciencedirect.com/science/article/pii/S0273117714006139>

Thermal Structure of Current Sheets and Supra-arcade Downflows in the Solar Corona

Will J. Hanneman^{1,2} and Katharine K. Reeves

2014 ApJ 786 95

Connecting speeds, directions and arrival times of 22 coronal mass ejections from the Sun to 1 AU

C. Möstl, K. Amla, J. R. Hall, P. C. Liewer, E. M. De Jong, R. C. Colaninno, A. M. Veronig, T. Rollett, M. Temmer, V. Peinhart, J. A. Davies, N. Lugaz, Y. D. Liu, C.J. Farrugia, J. G. Luhmann, B. Vršnak, R. A. Harrison, A. B. Galvin

ApJ, 2014

<http://arxiv.org/pdf/1404.3579v1.pdf>

High-Cadence and High-Resolution H α Imaging Spectroscopy of a Circular Flare's Remote Ribbon with IBIS

Na Deng, Alexandra Tritschler, Ju Jing, Xin Chen, Chang Liu, Kevin Reardon, Carsten Denker, Yan Xu, and Haimin Wang

E-print, April 2013; ApJ

RE-INTERPRETATION OF SUPRA-ARCADE DOWNFLOWS IN SOLAR FLARES

Sabrina L. Savage¹, David E. McKenzie² and Katharine K. Reeves

2012 ApJ 747 L40

22-25 Oct

On the Radial and Longitudinal Variation of a Magnetic Cloud: ACE, Wind, ARTEMIS and Juno Observations

Emma E. Davies, Robert J. Forsyth, Simon W. Good & Emilia K. J. Kilpua

Solar Physics volume 295, Article number: 157 (2020)

<https://link.springer.com/content/pdf/10.1007/s11207-020-01714-z.pdf>

Multispacecraft Observation of Unidirectional and Bidirectional Alfvén Waves within Large-scale Magnetic Clouds

Zehao Wang^{1,2}, Xueshang Feng¹, and Jianchuan Zheng

2019 ApJL 887 L18

sci-hub.se/10.3847/2041-8213/ab595d

24 Oct

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

24-25 Oct – приличная геобуря (Dst~142 nT) и сильный Форбуш, видимо от эрупции большого северного волокна, начавшейся 21-ого и продолжавшейся 22-ого

Investigation on the Spatiotemporal Structures of Supra-Arcade Spikes

[Rui Liu](#), [Yuming Wang](#)

A&A 2021

<https://arxiv.org/pdf/2106.04752.pdf>

On the Radial and Longitudinal Variation of a Magnetic Cloud: ACE, Wind, ARTEMIS and Juno Observations

[Emma E. Davies](#), [Robert J. Forsyth](#), [Simon W. Good](#) & [Emilia K. J. Kilpua](#)

[Solar Physics](#) volume 295, Article number: 157 (2020)

<https://link.springer.com/content/pdf/10.1007/s11207-020-01714-z.pdf>

Structures of Interplanetary Magnetic Flux Ropes and Comparison with Their Solar Sources

[Qiang Hu](#), [Jiong Qiu](#), [B. Dasgupta](#), [A. Khare](#), and [G. M. Webb](#)

ApJ, 2014; File

https://dl.dropboxusercontent.com/u/96898685/ms_fr_v4.pdf

Energetic Particle and Other Space Weather Events of Solar Cycle 24

[N. Gopalswamy](#)

E-print, Jan 2013, File; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G.

P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, 2012

25 Oct

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. II. THE CASE FOR ABSENT FILAMENTS

[T. A. Howard](#)¹, [C. E. DeForest](#)¹, [U. G. Schneck](#)², and [C. R. Alden](#)

2017 ApJ 834 86 DOI 10.3847/1538-4357/834/1/86

<http://c.brightcove.com/article/10.3847/1538-4357/834/1/86/pdf>

<http://iopscience.iop.org/sci-hub/cc/0004-637X/834/1/86/>

Polarimetric Reconstruction of Coronal Mass Ejections from LASCO-C2 Observations

[O. Floyd](#), [P. Lamy](#)

[Solar Physics](#) November 2019, 294:168

<https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1553-0.pdf>

26 Oct, >08:30 – NW, эрупция CME

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations

[Richard A. Harrison](#), [Jackie A. Davies](#), [David Barnes](#), [Christian Möstl](#)

Space Weather 2023

<https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf>

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

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

[Solar Phys.](#) 294:144 2019

<https://arxiv.org/pdf/1907.01990.pdf> File
<https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1539-y.pdf>

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation

Nishtha Sachdeva

Ph.D. Thesis 2019

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

27 Oct **залимбовый пересвет** 08:16 ←16s 8s→ B=43/277=0.16 <0.2 **не берём**

27 Oct

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation

Nishtha Sachdeva

Ph.D. Thesis 2019

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

Difference of source regions between fast and slow coronal mass ejections

B. Filippov

PASAustralia 2019

<https://arxiv.org/pdf/1904.04060.pdf>

Predicting the Arrival Time of Coronal Mass Ejections with the Graduated Cylindrical Shell and Drag Force Model

Tong Shi, Yikang Wang, Linfeng Wan, Xin Cheng, Mingde Ding, Jie Zhang

ApJ 2015

<http://arxiv.org/pdf/1505.00884v1.pdf>

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study†

H. Xie, O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades

JGR, 2013, File

The measurement of the apparent phase speed of the propagating EUV disturbances

D. Yuan¹ and V. M. Nakariakov^{1,2}

E-print, Apr 2012, A&A

27-28 Oct

A Study of Acoustic Halos in Active Region NOAA 11330 using Multi-Height SDO Observations

S. C. Tripathy, K. Jain, S. Kholikov, F. Hill, S. P. Rajaguru, P. S. Cally

(Submitted on 3 Nov 2017)

<https://arxiv.org/pdf/1711.01259.pdf>

28 Oct

Is There a Dynamic Difference between Stealthy and Standard Coronal Mass Ejections?

Beili Ying¹, Alessandro Bemporad^{2,1}, Li Feng^{1,3}, Nariaki V. Nitta⁴, and Weiqun Gan^{1,3}

2023 ApJ 942 3

<https://iopscience.iop.org/article/10.3847/1538-4357/aca52c/pdf>

Microwave radio emissions as a proxy for coronal mass ejection speed in arrival predictions of interplanetary coronal mass ejections at 1 AU

Carolina Salas Matamoros^{1,2*}, Karl Ludwig Klein¹ and Gerard Trotter

J. Space Weather Space Clim., 7, A2 (2017)

<http://www.swsc-journal.org/articles/swsc/pdf/2017/01/swsc160027.pdf>

29 Oct

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations

Richard A. [Harrison](#), [Jackie A. Davies](#), [David Barnes](#), [Christian Möstl](#)

Space Weather 2023

<https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf>

Properties of the Sheath Regions of Coronal Mass Ejections with or without Shocks from STEREO in situ Observations near 1 AU

T. M. [Salman](#), [N. Lugaz](#), [C. J. Farrugia](#), [R. M. Winslow](#), [L. K. Jian](#), [A. B. Galvin](#)

ApJ 2020

<https://arxiv.org/pdf/2011.06632.pdf>

31 Oct **залимбовый пересвет** 18:16 \leftarrow 16s 8s \rightarrow B=38/277=0.14 <0.2 **не берём**

31 Oct

Formation and Thermodynamic Evolution of plasmoids in active region jets

[Sargam M. Mulay](#), [Durgesh Tripathi](#), [Helen Mason](#), [Giulio Del Zanna](#), [Vasilis Archontis](#)

MNRAS 2022

<https://arxiv.org/ftp/arxiv/papers/2211/2211.01740.pdf>

November 2011

Radial Evolution of a Magnetic Cloud: MESSENGER, STEREO, and Venus Express Observations

S. W. [Good](#)¹, R. J. [Forsyth](#)¹, J. M. [Raines](#)², D. J. [Gershman](#)³, J. A. [Slavin](#)², and T. H. [Zurbuchen](#)
2015 ApJ 807 177

1 Nov

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

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations

Richard A. [Harrison](#), [Jackie A. Davies](#), [David Barnes](#), [Christian Möstl](#)

Space Weather 2023

<https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf>

1-2 Nov

Geomagnetic storm forecasting service StormFocus: 5 years online

[Tatiana Podladchikova](#), [Anatoly Petrukovich](#) and [Yuri Yermolaev](#)

J. Space Weather Space Clim. 2018, 8, A22

<https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170027.pdf>

2 Nov – 22:16: M4.3 **пересвет** B=26*2/277=0,19 \leftarrow 16s 8s \rightarrow 22:06 B=29*2/277=0.209

2 Nov

CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. II. THE CASE FOR ABSENT FILAMENTS

T. A. [Howard](#)¹, C. E. [DeForest](#)¹, U. G. [Schneck](#)², and C. R. [Alden](#)

2017 ApJ 834 86 DOI 10.3847/1538-4357/834/1/86

<http://c.brightcove.com/article/10.3847/1538-4357/834/1/86/pdf>

<http://iopscience.iop.org/sci-hub.cc/0004-637X/834/1/86/>

3 Nov – 11:16: M2.5 вспышка, **пересвет** на STEREO-B, $V=23*2/277=0.17$
12:16: вспышки нет, **пересвет** на STEREO-B, $V=38*2/277=0,27$ **время другое**
20:26: X1.9 вспышка, **пересвет** на STEREO-B, $V=74*2/277=0,53$
22:41: E backside вспышка, **пересвет** на STEREO-B, $V=13*2/277=0,094$ Nitta
23:36: M2.1 вспышка, **пересвет** на STEREO-B, $V=18*2/277=0,13$

3 Nov

The Crucial Role of Perpendicular Diffusion in the Longitude Distribution of >10 MeV Solar Energetic Protons

Yang Wang^{1,2} and Gang Qin^{1,2}

2023 ApJ 954 81

<https://iopscience.iop.org/article/10.3847/1538-4357/ace35b/pdf> File

A data-driven physics-based transport model of solar energetic particles accelerated by coronal mass ejection shocks propagating through the solar coronal and heliospheric magnetic fields

Ming Zhang, [Lei Cheng](#), [Ju Zhang](#), [Pete Riley](#), [Ryun Young Kwon](#), [David Lario](#), [Laura Balmaceda](#), [Nikolai Pogorelov](#)

2023 ApJS 266 35

<https://arxiv.org/pdf/2212.07259.pdf>

<https://iopscience.iop.org/article/10.3847/1538-4365/accb8e/pdf>

The Quantitative Relation of the Time Profiles of Intensities in the Well-connected Solar Energetic Particle Events

Yang Wang¹, Dan Lyu¹, Xinghui Wu¹, and Gang Qin¹

2022 ApJ 940 67

<https://iopscience.iop.org/article/10.3847/1538-4357/ac99da/pdf>

A Simple Technique for Identifying the Propagation Direction of CMEs in 3D Space

Y. I. Egorov & [V. G. Fainshtein](#)

[Solar Physics](#) volume 296, Article number: 161 (2021)

<https://link.springer.com/content/pdf/10.1007/s11207-021-01904-3.pdf>

<https://doi.org/10.1007/s11207-021-01904-3>

Solar Flare Irradiance: Observations and Physical Modeling

[Jeffrey W. Reep](#), [David E. Siskind](#), [Harry P. Warren](#)

ApJ 2021

<https://arxiv.org/pdf/2110.06310.pdf>

Solar Energetic Particles Observed by the STEREO Spacecraft During Solar Cycle 24

I. G. Richardson

Presentation at the Fleishman's Webinar, 22 May 2019

http://www.ioffe.ru/LEA/SF_AR/files/Richardson2019.pdf

Forward Modeling of the Type III Radio Burst Exciter

Peijin Zhang, Chuanbing Wang, Lin Ye, Yuming Wang

[Solar Physics](#) May 2019, 294:62

sci-hub.se/10.1007/s11207-019-1448-0

Lyman Continuum Observations of Solar Flares Using SDO/EVE

Marcos E. Machado, [Ryan O. Milligan](#), [Paulo J. A. Simoes](#)

ApJ 2018

<https://arxiv.org/pdf/1810.10824.pdf>

Powerful solar flares in [September 2017](#). Comparison with the largest flares in cycle 24
E. A. [Bruevich](#), [V. V. Bruevich](#)
2018
<https://arxiv.org/pdf/1807.01271.pdf>

Effects of Coronal Magnetic Field Structures on the Transport of Solar Energetic Particles
[Lulu Zhao](#) and [Ming Zhang](#)
2018 *ApJL* 859 L29 DOI [10.3847/2041-8213/aac6cf](#)

On the Link between the Release of Solar Energetic Particles Measured at Widespread
Heliolongitudes and the Properties of the Associated Coronal Shocks
[D. Lario](#)¹, [R.-Y. Kwon](#)^{1,2}, [P. Riley](#)³, and [N. E. Raouafi](#)¹
2017 *ApJ* 847 103
<http://sci-hub.cc/http://iopscience.iop.org/0004-637X/847/2/103/>

Comparison of the CME-shock Acceleration of Three Widespread SEP Events during Solar
Cycle 24†
[H. Xie](#), [P. Mäkelä](#), [O. C. St. Cyr](#), [N. Gopalswamy](#)
JGR 2017 DOI: [10.1002/2017JA024218](#)
<http://onlinelibrary.wiley.com/doi/10.1002/2017JA024218/pdf>

Doppler speeds of the hydrogen Lyman lines in solar flares from EVE
[Stephen A Brown](#), [Lyndsay Fletcher](#), [Nicolas Labrosse](#)
A&A 2016
<https://arxiv.org/pdf/1610.04007v1.pdf>

The Characteristics of Solar X-Class Flares and CMEs: A Paradigm for Stellar Superflares and
Eruptions?
[Louise K. Harra](#), [Carolus J. Schrijver](#), [Miho Janvier](#), [Shin Toriumi](#), [Hugh Hudson](#), [Sarah
Matthews](#), [Magnus M. Woods](#), [Hirohisa Hara](#), [Manuel Guedel](#), [Adam Kowalski](#), [Rachel Osten](#),
[Kanya Kusano](#), [Theresa Lueftinger](#)
Solar Phys. 2016 Open Access File

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

Study of Solar Energetic Particle Associations with Coronal Extreme-ultraviolet Waves
[Jinhye Park](#)¹, [D. E. Innes](#)², [R. Bucik](#)^{2,3}, [Y.-J. Moon](#)^{1,4}, and [S. W. Kahler](#)
2015 *ApJ* 808 3
See presentation
<https://community.apan.org/cfs-file.ashx/ key/telligent-evolution-components-attachments/13-7784-00-00-00-14-46-02/Park.pdf>

Circumsolar Energetic Particle Distribution on 2011 November 3
[R. Gómez-Herrero](#)^{1,2}, [N. Dresing](#)³, [A. Klassen](#)³, [B. Heber](#)³, [D. Lario](#)⁴, [N. Agueda](#)⁵, [O. E.
Malandraki](#)⁶, [J.J. Blanco](#)^{1,2}, [J. Rodríguez-Pacheco](#)^{1,2}, and [S. Banjac](#)
2015 *ApJ* 799 55

An Unorthodox X-Class Long-Duration Confined Flare
[Rui Liu](#), [Viacheslav S. Titov](#), [Tingyu Gou](#), [Yuming Wang](#), [Kai Liu](#), [Haimin Wang](#)
E-print, May 2014, File; *ApJ*
<http://arxiv.org/pdf/1405.6774v1.pdf>

Statistical survey of widely spread out solar electron events observed with STEREO and ACE with special attention to anisotropies

N. Dresing, R. Gomez-Herrero, B. Heber, A. Klassen, O. Malandraki, W. Dröge, and Y. Kartavykh

E-print, July 2014; A&A, Volume 567, A27, July 2014; File

> 25 MeV Proton Events Observed by the High Energy Telescopes on the STEREO A and B Spacecraft and/or at Earth During the First ~ Seven Years of the STEREO Mission

I. G. Richardson, T. T. von Rosenvinge, H. V. Cane, E. R. Christian, C. M. S. Cohen, A. W. Labrador, R. A. Leske, R. A. Mewaldt, M. E. Wiedenbeck, E. C. Stone
Solar Phys., 2014

An Investigation of the CME of 3 November 2011 and Its Associated Widespread Solar Energetic Particle Event

A. J. Priese, L. K. Harra, S. A. Matthews, D. M. Long, A. D. Aylward
Solar Physics, May 2014, Volume 289, Issue 5, pp 1731-1744

Soft X-ray Fluxes of Major Flares Far Behind the Limb as Estimated Using STEREO EUV Images

N. V. Nitta, M. J. Aschwanden, P. F. Boerner, S. L. Freeland, J. R. Lemen, J.-P. Wuelser
E-print, May 2013, File; Solar Physics, November 2013, Volume 288, Issue 1, pp 241-254

Solar Flare Impulsive Phase Emission Observed with SDO/EVE

Michael B. Kennedy¹, Ryan O. Milligan^{1,2,3}, Mihalis Mathioudakis¹, and Francis P. Keenan
2013 ApJ 779 84

<http://arxiv.org/abs/1310.4649>

Overlying Extreme-ultraviolet Arcades Preventing Eruption of a Filament Observed by AIA/SDO

Huadong Chen^{1,2}, Suli Ma¹, and Jun Zhang
2013 ApJ 778 70

Simultaneous EUV and radio observations of bidirectional plasmoids ejection during magnetic reconnection*

Pankaj Kumar and Kyung-Suk Cho
A&A 557, A115 (2013)

Soft X-ray Fluxes of Major Flares Far Behind the Limb as Estimated Using STEREO EUV Images

N. V. Nitta, M. J. Aschwanden, P. F. Boerner, S. L. Freeland, J. R. Lemen, J.-P. Wuelser
Solar Physics, May 2013, File

3-4 Nov

Solar Energetic Particle Access to Distant Longitudes via Turbulent Field-Line Meandering

T. Laitinen (1), A. Kopp (2), F. Effenberger (3,4), S. Dalla (1), M.S. Marsh
ApJL 2015

3-11 Nov

On the non-Kolmogorov nature of flare-productive solar active regions

Revati S. Mandage, R.T. James McAteer

ApJ 2016

<https://arxiv.org/pdf/1611.00830v1.pdf>

4 Nov – 20:56: M1.0 вспышка, пересвет на STEREO-B, $B=20 \times 2/277=0.14$

4 Nov

Numerical Simulation of Equal Ratio Relations for the Peak Intensities of >10 MeV Energetic Protons

Yushui **Zhong**^{1,2}, Yang Wang^{1,2,3}, and Gang Qin^{1,2,3}

2024 ApJ 969 135

<https://iopscience.iop.org/article/10.3847/1538-4357/ad5721/pdf>

New Probabilistic Model For Episode Integrated Fluences of Protons Using Episodes From 1973-2013

Zachary D. **Robinson**

Thesis (2015) 2017

<https://arxiv.org/pdf/1711.04391.pdf>

Prominence and Filament Eruptions Observed by the Solar Dynamics Observatory: Statistical Properties, Kinematics, and [Online Catalog](#)

Patrick I. **McCauley**, Yingna Su, Nicole Schanche, Kaitlin E. Evans, Chuan Su, Sean McKillop, Katharine K. Reeves

Solar Phys. 2015

<http://arxiv.org/pdf/1505.02090v1.pdf>

СОЛНЕЧНЫЕ ПРОТОННЫЕ СОБЫТИЯ В КОНЦЕ 23-ГО И НАЧАЛЕ 24-ГО СОЛНЕЧНЫХ ЦИКЛОВ, ЗАРЕГИСТРИРОВАННЫЕ В ЭКСПЕРИМЕНТЕ ПАМЕЛА

Базилевская Г.А., Майоров А.Г., Малахов В.В., Михайлов В.В., Адриани О., Барбарин Д.С., Белотти Р., Боецио М., Богомолов Э.А., Бонвичини В., Бонджи М., Бонеки Л., Борисов С.В., Боттаи С., Бруно А., Вакки А., Вануччини Е., Васильев Г.И., Воронов С.А., Ву Ю. и др. Известия РАН, Серия физическая, том 77, № 5, с. 557–560, 2013.

Solar energetic particle events in 2006-2012 in the PAMELA experiment data

G A **Bazilevskaya** et al

2013 J. Phys.: Conf. Ser. 409 012188

5 Nov – 04:16: M3.7 **пересвет** $V=31*2/277=0.22 \leftarrow 16s$ $8s \rightarrow V=31/277=0.112$

11:26: M1.1 вспышка, **пересвет** на STEREO-B, $V=12*2/277=0.09$ **верхний предел**

20:36: M1.8 вспышка, **пересвет** на STEREO-B, $V=14*2/277=0,1$

5 Nov

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

Manu Gupta, **J. K. Thalmann**, **A. M. Veronig**

A&A 2024

<https://arxiv.org/pdf/2402.12254.pdf>

The physics of solar spectral imaging observations in dm-cm wavelengths and the application on space weather

Review

Baolin Tan, **Yihua Yan**, **Jing Huang**, **Yin Zhang**, **Chengming Tan**, **Xiaoshuai Zhu**

Advance in Space Research, 2023

<https://arxiv.org/ftp/arxiv/papers/2311/2311.14360.pdf>

Radio astronomical tools for the study of solar energetic particles I. Correlations and diagnostics of impulsive acceleration and particle propagation **Review**

Karl-Ludwig Klein

Front. Astron. Space Sci. Volume 7, id.105 2020

<https://doi.org/10.3389/fspas.2020.580436>

<https://www.frontiersin.org/articles/10.3389/fspas.2020.580436/full> File

Magnetic helicity and energy budget around large confined and eruptive solar flares

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

A&A 2021

<https://arxiv.org/pdf/2106.08781.pdf>

SMART/SDDI Filament Disappearance Catalogue (2016–2019)

[Daikichi Seki](#), [Kenichi Otsuji](#), [Takako T. Ishii](#), [Kumi Hirose](#), [Tomoya Iju](#), [Satoru UeNo](#), [Denis P. Cabezas](#), [Ayumi Asai](#), [Hiroaki Isobe](#), [Kiyoshi Ichimoto](#), [Kazunari Shibata](#)

Sun and Geosphere 2020

<https://arxiv.org/ftp/arxiv/papers/2003/2003.03454.pdf>

Passages of Electron Beams

[Bin Chen](#) and [Tim Bastian](#)

RHESSI Science Nugget, No. 193, Feb 2013

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

Tracing Electron Beams in the Sun's Corona with Radio Dynamic Imaging Spectroscopy

[Bin Chen](#), [Timothy S. Bastian](#), [Stephen M. White](#), [Dale E. Gary](#), [Richard A. Perley](#), [Michael P. Rupen](#), [Brent R. Carlson](#)

E-print, Dec 2012; ApJL

5-6 Nov

Correlation of ICME Magnetic Fields at Radially Aligned Spacecraft

[S. W. Good](#), [R. J. Forsyth](#), [J. P. Eastwood](#), [C. Möstl](#)

[Solar Physics](#) March 2018, 293:52

<https://link.springer.com/content/pdf/10.1007%2Fs11207-018-1264-y.pdf>

5-13 Nov

On the non-Kolmogorov nature of flare-productive solar active regions

[Revati S. Mandage](#), [R.T.James McAteer](#)

ApJ 2016

<https://arxiv.org/pdf/1611.00830v1.pdf>

6 Nov – 06:41: M1.4 вспышка, пересвет на STEREO-B, $B=16 \cdot 2/277=0,12$

6 Nov

On orbit performance of the solar flare trigger for the Hinode EUV Imaging Spectrometer

[David H. Brooks](#), [Jeffrey W. Reep](#), [Ignacio Ugarte-Urra](#), [Harry P. Warren](#)

Brief Report in Frontiers in Astronomy and Space Sciences 2023

<https://arxiv.org/pdf/2303.13155.pdf>

Relationships Between Sequential Chromospheric Brightening and the Corona **Review**

[Michael S. Kirk](#), [K. S. Balasubramaniam](#), [Jason Jackiewicz](#), [Holly R. Gilbert](#)

Proceedings IAU Symposium No. xxx, 2017

<https://arxiv.org/pdf/1704.03835.pdf>

The Origin of Sequential Chromospheric Brightenings

[Michael S. Kirk](#), [K.S. Balasubramaniam](#), [Jason Jackiewicz](#), [Holly R. Gilbert](#)

[Solar Phys.](#) 2017

<https://arxiv.org/pdf/1704.03828.pdf>

7 Nov

Three-Year Global Survey of Coronal Null Points from Potential-Field-Source-Surface (PFSS) Modeling and Solar Dynamics Observatory (SDO) Observations
Michael Freed, Dana Longcope, David McKenzie
Solar Physics, 2014
<http://arxiv.org/pdf/1410.4493v1.pdf>

8 Nov

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

Helical Twisting Number and Braiding Linkage Number of Solar Coronal Loops
Markus J. Aschwanden
2019
<https://arxiv.org/pdf/1902.10612.pdf>

Chromospheric Magnetic Field Measurements in a Flare and an Active Region Filament
J. W. Harvey
Solar Physics, Volume 280, Number 1 (2012), 69-81

8-23 Nov

Eruption of prominence triggered by coronal rain in the solar atmosphere observed by SDO/AIA and Stereo/EUVI
Z. M. Vashalomidze (1), T. V. Zaqarashvili (1,2 and 3), V. D. Kukhianidze (1), G. T. Ramishvili (1)
Astrophysics, Vol. 62, No. 4, December, 2019
DOI 10.1007/s10511-019-09602-6
<https://arxiv.org/ftp/arxiv/papers/2110/2110.01309.pdf>

9 Nov – 14:16: M1.1 пересвет $B=20 \cdot 2/276=0,14 \leftarrow 16s$ $8s \rightarrow B=20/276=0.072$ LDE

9 Nov 2011 – несколько волоконных эрупций, CMEs
~13:30 огромная эрупция на STEREO-B

Evolution of Solar Eruptive Events: Investigating the Relationships among Magnetic Reconnection, Flare Energy Release, and Coronal Mass Ejections
Juliana T. **Vievering**¹, Angelos Vourlidas¹, Chunming Zhu², Jiong Qiu², and Lindsay Glesener³
2023 ApJ 946 81
<https://iopscience.iop.org/article/10.3847/1538-4357/acbe3d/pdf>

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

Finding the critical decay index in solar prominence eruptions
N. Vasantharaju, P. Vemareddy, B. Ravindra, V. H. Doddamani
ApJ 2019
<https://arxiv.org/pdf/1909.10442.pdf>

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

Filament Eruptions Associated with Flares, Coronal Mass Ejections and Solar Energetic Particle Events

K. Koleva¹, P. Duchlev¹, M. Dechev¹, R. Miteva², K. Kozarev¹, A. Veronig³, M. Temmer³
Proceedings of Tenth Workshop “Solar Influences on the Magnetosphere, Ionosphere and Atmosphere” Primorsko, Bulgaria, June 4-8, 2018

http://ws-sozopol.stil.bas.bg/2018Primorsko/Kolevaetal_WS-10.pdf

Statistical Properties of Ribbon Evolution and Reconnection Electric Fields in Eruptive and Confined Flares

Jürgen Hinterreiter, Astrid M. Veronig, Julia K. Thalmann, Johannes Tschernitz, Werner Pötzi
Solar Phys. 2018

<https://arxiv.org/pdf/1801.03370.pdf>

Reconnection fluxes in eruptive and confined flares and implications for superflares on the Sun

Johannes Tschernitz, Astrid M. Veronig, Julia K. Thalmann, Jürgen Hinterreiter, Werner Pötzi
ApJ 2017

<https://arxiv.org/pdf/1712.04701.pdf>

Global Energetics of Solar Flares: IV. Coronal Mass Ejection Energetics

Markus J. Aschwanden

ApJ 2016

<http://arxiv.org/pdf/1605.04952v1.pdf> File

http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf

Automatic analysis of double coronal mass ejections from coronagraph images

Matthew Jacobs, Lin-Ching Chang, Antti Pulkkinen,

Space Weather Volume 13, Issue 11 November 2015 Pages 761-777

Comparing nonlinear force-free and potential field modeling using full-disk HMI data

Tilaye Tadesse¹, T. Wiegelmann², P.J. MacNeice¹, B. Inhester², K. Olson³, and A. A. Pevtsov
HMI Science Nuggets, #33, Jan 2015

<http://hmi.stanford.edu/hminuggets/?p=1058>

DETERMINING HEATING TIME SCALES IN SOLAR ACTIVE REGION CORES FROM AIA/*SDO* FE XVIII IMAGES

IGNACIO UGARTE-URRA¹ AND HARRY P. WARREN²

eprint arXiv:1311.6346, ApJ, 2014

<http://arxiv.org/abs/1311.6346>

Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study†

H. Xie, O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades

JGR, 2013, File

Pathways of large-scale magnetic couplings between coronal events

C.J. Schrijver, A.M. Title, A.R. Yeates and M.L. DeRosa

E-print, May 2013, File; ApJSS

Inclusion of Real-Time In-Situ Measurements into the UCSD Time-Dependent Tomography and Its Use as a Forecast Algorithm

B. V. Jackson, J. M. Clover, P. P. Hick, A. Buffington, M. M. Bisi and M. Tokumaru

Solar Physics, July 2013, Volume 285, Issue 1-2, pp 151-165

10 Nov

The First Flight of the Marshall Grazing Incidence X-ray Spectrometer (MaGIXS)

Sabrina L. Savage, Amy R. Winebarger, Ken Kobayashi, +++

ApJ 2022
<https://arxiv.org/pdf/2212.00665.pdf>

11 Nov

Recurrent narrow quasi-periodic fast-propagating wave trains excited by the intermittent energy release in the accompanying solar flare

[Xinping Zhou](#), [Yuandeng Shen](#), [Hongfei Liang](#), [Zhining Ou](#), [Yadan Duan](#), [Zehao Tang](#), [Chengrui Zhou](#), [Song Tan](#)

ApJ 2022
<https://arxiv.org/pdf/2211.14488.pdf>

New Evidence for Third Harmonic Electromagnetic Radiation in Interplanetary Type III Solar Radio Bursts

[M. J. Reiner](#), [R. J. MacDowall](#)
[Solar Physics](#) July 2019, **294:91**
sci-hub.sc/10.1007/s11207-019-1476-9

Solar Magnetic Flux Rope Eruption Simulated by a Data-Driven Magnetohydrodynamic Model

[Yang Guo](#), [Chun Xia](#), [Rony Keppens](#), [M. D. Ding](#), [P. F. Chen](#)

ApJL 2018
<https://arxiv.org/pdf/1812.10030.pdf>

Observations of a Fast-mode Magnetosonic Wave Propagating along a Curving Coronal Loop on 2011 November 11

[Z. N. Qu](#)^{1,2}, [L. Q. Jiang](#)¹, and [S. L. Chen](#)

2017 ApJ **851** 41
<http://iopscience.iop.org/article/10.3847/1538-4357/aa9beb/pdf>

Magnetism and the Invisible Man: The mysteries of coronal cavities

Review

[Sarah Gibson](#)

IAU 300, eds. [Schmieder](#), [Malherbe](#), and [Wu](#), 2014 (2017)

<https://arxiv.org/pdf/1711.09254.pdf>

12 Nov

Forbush

The radial speed-expansion speed relation for Earth-directed CMEs

[P. Mäkelä](#), [N. Gopalswamy](#), [S. Yashiro](#)

[Space Weather](#) Volume 14, Issue 5 May 2016 Pages 368–378 File

<http://cdaw.gsfc.nasa.gov/publications/makela/makela2016SpaceWeather.pdf>

VARIATIONS OF THE MUON FLUX AT SEA LEVEL ASSOCIATED WITH INTERPLANETARY ICMEs AND COROTATING INTERACTION REGIONS

[C. R. A. Augusto](#)¹, [V. Kopenkin](#)¹, [C. E. Navia](#)¹, [K. H. Tsui](#)¹, [H. Shigueoka](#)¹, [A. C. Fauth](#)², [E.](#)

[Kemp](#)², [E. J. T. Manganote](#)², [M. A. Leigui de Oliveira](#)³, [P. Miranda](#)⁴, [R. Ticona](#)⁴, and [A. Velarde](#)
2012 ApJ **759** 143

13-14 Nov

SOLAR MAGNETIZED "TORNADOES:" RELATION TO FILAMENTS

[Yang Su](#)¹, [Tongjiang Wang](#)^{2,3}, [Astrid Veronig](#)¹, [Manuela Temmer](#)¹, and [Weiqun Gan](#)

2012 ApJ 756 L41

15 Nov – 09:26: M1.2 вспышка, **пересвет** на STEREO-A, $A=16*2/312=0,1$

12:46: M1.9 вспышка, **пересвет** на STEREO-B, $B=24*2/277=0,17$

22:36: M1.1 вспышка, **пересвет** на STEREO-A, $A=26*2/312=0,17$

15 Nov

Circular-ribbon flares and the related activities

Review

[Qingmin Zhang](#)

Reviews of Modern Plasma Physics 2024

<https://arxiv.org/pdf/2401.16101.pdf>

Global energetics of solar flares. XIII. The Neupert effect and acceleration of coronal mass ejections

[Markus J. Aschwanden](#)

ApJ 2021

<https://arxiv.org/pdf/2112.07759.pdf> File

A Survey of Changes in Magnetic Helicity Flux on the Photosphere During Relatively Low Class Flares

[Yi Bi](#), [Ying D Liu](#), [Yanxiao Liu](#), [Jiayan Yang](#), [Zhe Xu](#), [Kaifan Ji](#)

ApJ 2018

<https://arxiv.org/pdf/1808.04591.pdf>

A giant quiescent solar filament observed with high-resolution spectroscopy

[C. Kuckein](#), [M. Verma](#), [C. Denker](#)

Astronomy & Astrophysics 2016

<http://arxiv.org/pdf/1603.02505v1.pdf>

On the Nature of the EUV Late Phase of Solar Flares

[Y. Li](#), [M. D. Ding](#), [Y. Guo](#), [Y. Dai](#)

E-print, July 2014; ApJ, 2014

<http://arxiv.org/pdf/1407.6041v1.pdf>

Hot Spine Loops and the Nature of a Late-Phase Solar Flare

[Xudong Sun](#), [J. Todd Hoeksema](#), [Yang Liu](#), [Guillaume Aulanier](#), [Yingna Su](#), [Iain G. Hannah](#), [Rachel A. Hock](#)

E-print, Oct 2013; ApJ

<http://arxiv.org/pdf/1310.1438v1.pdf>

16 Nov

Counter-streaming flows in a giant quiet-Sun filament observed in the extreme ultraviolet

[A. Diercke](#), [C. Kuckein](#), [M. Verma](#), [C. Denker](#)

A&A 2018

<https://arxiv.org/pdf/1801.01036.pdf>

17 Nov

Solar Type II Radio Bursts Recorded by the Compound Astronomical Low-Frequency Low-Cost Instrument for Spectroscopy in Transportable Observatories in Brazil

[R. D. Cunha-Silva](#), [F. C. R. Fernandes](#), [C. L. Selhorst](#)

Solar Phys. 2014

19 Nov

Measuring three-dimensional shapes of stable solar prominences using stereoscopic observations from SDO and STEREO

[Chengrui Zhou](#), [Chun Xia](#), [Yuandeng Shen](#)

A&A 2021

<https://arxiv.org/pdf/2103.07111.pdf>

Dynamics of solar Coronal Mass Ejections: forces that impact their propagation

Nishtha Sachdeva

Ph.D. Thesis 2019

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

Height of Shock Formation in the Solar Corona Inferred from Observations of Type II Radio Bursts and Coronal Mass Ejections

N. [Gopalswamy](#), H. Xie, P. Makela, S. Yashiro, S. Akiyama, W. Uddin., A. K. Srivastava, N. C. Joshi, R. Chandra, P. K. Manoharan, K. Mahalakshmi, V. C. Dwivedi, R. Jain and A. K. Awasthi, N. V. Nitta, M. J. Aschwanden, D. P. Choudhary

E-print, Jan 2013; Adv. Space Res.

20-22 Nov

Eruption of prominence triggered by coronal rain in the solar atmosphere observed by SDO/AIA and Stereo/EUVI

Z. M. Vashalomidze (1), [T. V. Zaqarashvili](#) (1,2 and 3), [V. D. Kukhianidze](#) (1), [G. T. Ramishvili](#) (1) Astrophysics, Vol. 62, No. 4, December, 2019

DOI 10.1007/s10511-019-09602-6

<https://arxiv.org/ftp/arxiv/papers/2110/2110.01309.pdf>

21 Nov

Structured type III radio bursts observed in interplanetary space

Immanuel C. Jebaraj, [Jasmina Magdalenic](#), [Vladimir Krasnoselskikh](#), [Vratislav Krupar](#), [Stefaan Poedts](#)

A&A 2022

<https://arxiv.org/pdf/2209.12333.pdf>

22 Nov – 04:06: C4.9 вспышка, **пересвет** на STEREO-B, $B=5*2/277=0.036$
09:56: C3.2 вспышка, **пересвет** на STEREO-B, $B=4*2/277=0.029$

22 Nov 2011 – несколько волоконных эрупций, CMEs

Detection of Coronal Mass Ejections Using Unsupervised Deep Clustering

[Rasha Alshehhi](#) & [Prashanth R. Marpu](#)

[Solar Physics](#) volume 296, Article number: 104 (2021)

<https://link.springer.com/content/pdf/10.1007/s11207-021-01854-w.pdf>

<https://doi.org/10.1007/s11207-021-01854-w>

A New Automatic Tool for CME Detection and Tracking with Machine Learning Techniques

Pengyu Wang, [Yan Zhang](#), [Li Feng](#), [Hanqing Yuan](#), [Yuan Gan](#), [Shuting Li](#), [Lei Lu](#), [Beili Ying](#), [Weiqun Gan](#), [Hui Li](#)

ApJS 2019

<https://arxiv.org/pdf/1907.08798.pdf>

Pathways of large-scale magnetic couplings between coronal events

C.J. Schrijver, A.M. Title, A.R. Yeates and M.L. DeRosa

E-print, May 2013, File; ApJSS

26 Nov 2011 -A large filament eruption across the solar equator near the western limb was observed beginning at 05:58 UTC on Nov.26 and apparently triggered a C1 flare; небольшие мягкие протоны; значительный CME.

Statistical survey of widely spread out solar electron events observed with STEREO and ACE with special attention to anisotropies

N. [Dresing](#), R. [Gomez-Herrero](#), B. Heber, A. Klassen, O. Malandraki, W. Dröge, and Y. Kartavykh

E-print, July 2014; A&A, Volume 567, A27, July 2014; File

Energetic Particle and Other Space Weather Events of Solar Cycle 24

N. [Gopalswamy](#)

E-print, Jan 2013, File; In Space Weather: The space Radiation Environment, Ed. Q. Hu, G. Li, G. P. Zank, X. Ao, O. Verkhoglyadova, J. H. Adama, AIP Conf Proc. 1500, pp. 14-19, 2012

23 Nov

Characterizing ICME-related Forbush Decreases at Mercury using MESSENGER Observations: Identification of a One or Two-Step Structure

Emma E. Davies (1), [Réka M. Winslow](#) (1), [David J. Lawrence](#) (2)

ApJ 2022

<https://arxiv.org/pdf/2212.02707.pdf>

The Relation Between Large-Scale Coronal Propagating Fronts and Type II Radio Bursts

Nariaki V. Nitta, Wei Liu, Nat Gopalswamy, Seiji Yashiro

Solar Phys., 2014

http://www.lmsal.com/nitta/publ/SP_typeII_20140904.pdf

<http://arxiv.org/pdf/1409.4754v1.pdf> File

24 Nov

Magnetic Helicity Signs and Flaring Propensity: Comparing Force-free Parameter with the Helicity signs of H α Filaments and X-ray Sigmoids

[V. Aparna](#), [Manolis K. Georgoulis](#), [Petrus C. Martens](#)

ApJ 2024

<https://arxiv.org/ftp/arxiv/papers/2403/2403.17075.pdf>

Finding the critical decay index in solar prominence eruptions

N. Vasantharaju, [P. Vemareddy](#), [B. Ravindra](#), [V. H. Doddamani](#)

ApJ 2019

<https://arxiv.org/pdf/1909.10442.pdf>

26 Nov

Deciphering the Evolution of Thermodynamic Properties and their Connection to the Global Kinematics of High-Speed Coronal Mass Ejections Using FRIS Model

[Soumyaranjan Khuntia](#), [Wageesh Mishra](#), [Yuming Wang](#), [Sudheer K Mishra](#), [Teresa Nieves-Chinchilla](#), [Shaoyu Lyu](#)

MNRAS 2024

<https://arxiv.org/pdf/2411.03639>

DH Type II Radio Bursts During Solar Cycles 23 and 24: Frequency-dependent Classification and their Flare-CME Associations

Binal D. Patel (USO/PRL), [Bhuwan Joshi](#) (USO/PRL), [Kyung-Suk Cho](#) (SSD/KASI), [Rok-Soon Kim](#) (DASS/UST)

Solar Phys. 2021

<https://arxiv.org/pdf/2108.12990.pdf>

The Disappearing Solar Filament of 2013 September 29 and Its Large Associated Proton Event: Implications for Particle Acceleration at the Sun

E. W. Cliver¹, S. W. Kahler², M. Kazachenko^{1,3,4}, and M. Shimojo^{5,6}

2019 *ApJ* **877** 11

sci-hub.se/10.3847/1538-4357/ab0e03

<https://iopscience.iop.org/article/10.3847/1538-4357/ab0e03/pdf>

Origin of Radio Enhancements in Type II Bursts in the Outer Corona

Firas Al-Hamadani, Silja Pohjolainen, Eino Valtonen

Solar Physics September 2017, **292**:127

<https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1148-6.pdf>

A Hierarchical Relationship between the Fluence Spectra and CME Kinematics in Large Solar Energetic Particle Events: A Radio Perspective

N Gopalswamy, P Mäkelä, S Yashiro, N Thakur, S Akiyama, H Xie

Journal of Physics: Conference Series (JPCS), Proceedings of the 16th Annual International Astrophysics Conference held in Santa Fe, NM, 2017

<https://arxiv.org/ftp/arxiv/papers/1707/1707.00209.pdf>

High-energy solar particle events in cycle 24

Nat Gopalswamy, Pertti Makela, Seiji Yashiro, Hong Xie, Sachiko Akiyama, Neeharika Thakur

The 14th International Astrophysics Conference held in Tampa, FL during April 24-29, 2015.

Accepted for publication in *Journal of Physics: Conference Series (JPCS)*. edited by G. Zank, 2015

<http://arxiv.org/ftp/arxiv/papers/1507/1507.06162.pdf>; File

Filament Eruptions Outside of Active Regions as Sources of Large Solar Energetic Particle Events

Kahler, S. ; Gopalswamy, N. ; Makela, P. ; Akiyama, S. ; Yashiro, S. ; Xie, H. ; Thakur, N.

Proceedings of the 34th International Cosmic Ray Conference (ICRC2015). 30 July - 6 August, 2015.

The Hague, The Netherlands. Online at <http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=236>, id.48 2015

<https://pos.sissa.it/236/048/pdf>

Large Solar Energetic Particle Events Associated with Filament Eruptions Outside of Active Regions

N. Gopalswamy, P. Makela, S. Akiyama, S. Yashiro, H. Xie, N. Thakur, S. W. Kahler

ApJ 2015

<http://arxiv.org/ftp/arxiv/papers/1504/1504.00709.pdf>

27 (28?) Nov 2011 A filament eruption near the center of the visible disk was observed beginning at 11:12 UTC. A small CME was observed soon afterwards in STEREO-A images.

28 Nov

Dependence of Energetic Storm Particle Heavy Ion Peak Intensities and Spectra on Source CME Longitude and Speed

A. Santa Fe Dueñas^{1,2}, R. W. Ebert^{1,2}, M. A. Dayeh^{1,2}, M. I. Desai^{1,2}, L. K. Jian³, G. Li⁴, and C. W. Smith⁵

2022 *ApJ* **935** 32

<https://iopscience.iop.org/article/10.3847/1538-4357/ac73f5/pdf>

Proton Energy Spectra of Energetic Storm Particle Events and Relation with Shock Parameters and Turbulence

Federica Chiappetta¹, Monica Laurenza², Fabio Lepreti^{1,3}, and Giuseppe Consolini²

2021 *ApJ* **915** 8

<https://doi.org/10.3847/1538-4357/abfe09>
<https://iopscience.iop.org/article/10.3847/1538-4357/abfe09/pdf>

Relationship Between Solar Coronal X-Ray Brightness and Active Region Magnetic Fields: A Study Using High Resolution Observations

Soumitra Hazra, Dibyendu Nandy, B Ravindra

2014

<http://arxiv.org/pdf/1406.1683v1.pdf>

29 Nov

L1 and off Sun-Earth line visible-light imaging of Earth-directed CMEs: An analysis of inconsistent observations

Richard A. Harrison, Jackie A. Davies, David Barnes, Christian Möstl

Space Weather 2023

<https://arxiv.org/ftp/arxiv/papers/2304/2304.05264.pdf>

Stereoscopic Observation of Simultaneous Longitudinal and Transverse Oscillations in a Single Filament Driven by Two-sided-loop Jet

Song Tan, Yuandeng Shen, Xiping Zhou, Zehao Tang, Chengrui Zhou, Yadan Duan, Surui Yao

MNRAS 2023

<https://arxiv.org/pdf/2301.07989.pdf>

Stereoscopic diagnosing of a filament-cavity flux rope system by tracing the path of a two-sided-loop jet

Song Tan, Yuandeng Shen, Xiping Zhou, Yadan Duan, Zehao Tang, Chengrui Zhou, Surui Yao

MNRAS Letters 2022

<https://arxiv.org/pdf/2206.13827.pdf>

30 Nov

Structured type III radio bursts observed in interplanetary space

Immanuel C. Jebaraj, Jasmina Magdalenic, Vladimir Krasnoselskikh, Vratislav Krupar, Stefaan

Poedts

A&A 2022

<https://arxiv.org/pdf/2209.12333.pdf>

Three-Year Global Survey of Coronal Null Points from Potential-Field-Source-Surface (PFSS) Modeling and Solar Dynamics Observatory (SDO) Observations

Michael Freed, Dana Longcope, David McKenzie

Solar Physics, 2014

<http://arxiv.org/pdf/1410.4493v1.pdf>

Pathways of large-scale magnetic couplings between coronal events

C.J. Schrijver, A.M. Title, A.R. Yeates and M.L. DeRosa

E-print, May 2013, File; ApJSS

1 Dec

CMEs in the Heliosphere: I. A Statistical Analysis of the Observational Properties of CMEs Detected in the Heliosphere from 2007 to 2017 by STEREO/HI-1

R. A. Harrison, J. A. Davies, D. Barnes, J. P. Byrne, C. H. Perry, V. Bothmer, J. P. Eastwood, P. T. Gallagher, E. K. J. Kilpua, C. Möstl, L. Rodriguez, A. P. Rouillard, D. Odstrcil

Solar Phys. 2018

<https://arxiv.org/ftp/arxiv/papers/1804/1804.02320.pdf>

1-10 Dec

A Helioseismic Survey of Near-surface Flows Around Active Regions and their Association with Flares

D. C. Braun

ApJ 2015

<http://arxiv.org/pdf/1602.00038v1.pdf>

2 Dec

Prominence and Filament Eruptions Observed by the Solar Dynamics Observatory: Statistical Properties, Kinematics, and [Online Catalog](#)

Patrick I. McCauley, Yingna Su, Nicole Schanche, Kaitlin E. Evans, Chuan Su, Sean McKillop, Katharine K. Reeves

Solar Phys. 2015

<http://arxiv.org/pdf/1505.02090v1.pdf>

3 Dec

PARTIAL SLINGSHOT RECONNECTION BETWEEN TWO FILAMENTS

Yunchun Jiang¹, Junchao Hong^{1,2}, Jiayan Yang¹, Yi Bi¹, Ruisheng Zheng¹, Bo Yang^{1,2}, Haidong

Yunchun Jiang¹, Junchao Hong^{1,2}, Jiayan Yang¹, Yi Bi¹, Ruisheng Zheng¹, Bo Yang^{1,2}, Haidong Li¹, and Dan Yang

2013 ApJ 764 68

4 Dec – 16:16: C4.8 вспышка, пересвет на STEREO-A, $A=9*2/312=0,06$

4 Dec

The nonpotentiality of coronae of solar active regions, the dynamics of the surface magnetic field, and the potential for large flares

C.J. Schrijver

ApJ 2016

<http://arxiv.org/pdf/1602.07244v1.pdf>

5 Dec

DETERMINING HEATING TIME SCALES IN SOLAR ACTIVE REGION CORES FROM AIA/SDO FE XVIII IMAGES

IGNACIO UGARTE-URRA¹ AND HARRY P. WARREN²

eprint arXiv:1311.6346, ApJ, 2014

<http://arxiv.org/abs/1311.6346>

7 Dec

Observations of Coronal Mass Ejections with the Coronal Multichannel Polarimeter

H. Tian, S. Tomczyk, S. W. McIntosh, C. Bethge, G. de Toma, S. Gibson

E-print, March 2013, File; Sol. Phys. (2013) 288:637–650

8 Dec

Polarimetric Reconstruction of Coronal Mass Ejections from LASCO-C2 Observations

O. Floyd, P. Lamy

[Solar Physics](#) November 2019, 294:168

<https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1553-0.pdf>

9 Dec

S. J. Schonfeld¹, S. M. White², C. J. Henney², C. N. Arge², and R. T. J. McAteer

2015 ApJ 808 29

<http://arxiv.org/pdf/1508.00599v1.pdf>

10 Dec

The temporal and spatial evolution of MHD wave modes in sunspots

[A. B. Albidah](#), [V. Fedun](#), [A. A. Aldhafeeri](#), [I. Ballai](#), [D. B. Jess](#), [W. Brevis](#), [J. Higham](#), [M. Stangalini](#), [S. S. A. Silva](#), [C. D. MacBride](#), [G. Verth](#)

ApJ 2023

<https://arxiv.org/pdf/2305.19418.pdf>

Magnetohydrodynamic wave mode identification in circular and elliptical sunspot umbrae: evidence for high order modes

[A. B. Albidah](#), [V. Fedun](#), [A. A. Aldhafeeri](#), [I. Ballai](#), [W. Brevis](#), [D. B. Jess](#), [J. Higham](#), [M. Stangalini](#), [S. S. A. Silva](#), [G. Verth](#)

ApJ 2022

<https://arxiv.org/pdf/2202.00624.pdf>

Proper Orthogonal and Dynamic Mode Decomposition of Sunspot Data

[A. B. Albidah](#), [W. Brevis](#), [V. Fedun](#), [I. Ballai](#), [D. B. Jess](#), [M. Stangalini](#), [J. Higham](#), [G. Verth](#)

Philosophical Transactions of the Royal Society of London Series A, 379, 20200181, 2021

doi: 10.1098/rsta.2020.0181

<https://arxiv.org/pdf/2010.08530.pdf>

Statistical Signatures of Nanoflare Activity. I. Monte Carlo Simulations and Parameter Space Exploration

[David B. Jess](#), [Chris J. Dillon](#), [Michael S. Kirk](#), [Fabio Reale](#), [Mihalis Mathioudakis](#), [Samuel D. T. Grant](#), [Damian J. Christian](#), [Peter H. Keys](#), [S. Krishna Prasad](#), [Scott J. Houston](#)

ApJ 2018

<https://arxiv.org/pdf/1812.06978.pdf>

Unravelling the components of a multi-thermal coronal loop using magnetohydrodynamic seismology

[S. Krishna Prasad](#), [D. B. Jess](#), [J. A. Klimchuk](#), [D. Banerjee](#)

ApJ 2016

<https://arxiv.org/pdf/1611.04011v1.pdf>

Spatially Resolved Coronal Magnetic Fields Derived Using Seismology Techniques Applied to Omnipresent Sunspot Waves

[D. B. Jess](#)^{1,2}, [V. E. Reznikova](#)³, [R. S. I. Ryans](#)¹, [D. J. Christian](#)², [P. H. Keys](#)^{1,4}, [M. Mathioudakis](#)¹, [D. H. Mackay](#)⁵, [S. Krishna Prasad](#)¹, [D. Banerjee](#)⁶, [S. D. T. Grant](#)¹, [S. Yau](#)¹ & [C. Diamond](#)

HMI Science Nuggets #46 Nov 2015

<http://hmi.stanford.edu/hminuggets/?p=1337>

On the Source of Propagating Slow Magneto-acoustic Waves in Sunspots

[S. Krishna Prasad](#), [D. B. Jess](#), [Elena Khomenko](#)

ApJL 2015

<http://arxiv.org/pdf/1510.03275v1.pdf>

Nanoflare Activity in the Solar Chromosphere

[D. B. Jess](#), [M. Mathioudakis](#), [P. H. Keys](#)

ApJ, 2014

<http://arxiv.org/pdf/1409.6726v1.pdf>

Dynamic properties of bright points in an active region

[Peter H. Keys](#), [Mihalis Mathioudakis](#), [David B. Jess](#), [Duncan H. Mackay](#), [Francis P. Keenan](#)

A&A, 2014

<http://arxiv.org/pdf/1405.3923v1.pdf>

11 Dec

High-order Harmonics of a Kink Wave and a Narrow Quasiperiodic Fast-propagating Wave Train Excited Simultaneously in a Plasma Resonator

Zhining Qu¹, Xiping Zhou¹, Jie Zheng², Linqiao Jiang³, Hongbo Li⁴, and Hang Yang¹
2023 ApJ 955 89

<https://iopscience.iop.org/article/10.3847/1538-4357/acef10/pdf>

Understanding the Role of Mass-Unloading in Filament Eruptions

Jack Jenkins, **David M Long**, **Lidia van Driel-Gesztelyi**, **Jack Carlyle**
Solar Phys. 2017

<https://arxiv.org/pdf/1711.02565.pdf>

Multiwavelength study of twenty jets emanating from the periphery of active regions

Sargam M. Mulay, **Durgesh Tripathi**, **Giulio Del Zanna**, **Helen Mason**
A&A 2016

Pathways of large-scale magnetic couplings between coronal events

C.J. Schrijver, **A.M. Title**, **A.R. Yeates** and **M.L. DeRosa**
E-print, May 2013, File; ApJSS

12 Dec

Coronal type III radio bursts and their X-ray flare and interplanetary type III counterparts

Hamish A. S. Reid, **Nicole Vilmer**

A&A 2016

<http://arxiv.org/pdf/1609.04743v1.pdf>

13 Dec 2011

интересное событие было 13 декабря тоже с 00 до 02 UT. Отрицательный всплеск "на ровном месте", без импульсного всплеска. При этом эруптивное волокно (тоже вне АО, на юго-западе, вблизи лимба), скорее всего, затеняло яркий источник, находящийся от него к северо-западу.

SW поглощения на 304 Å.

Statistics of coronal dimmings associated with coronal mass ejections.

I. Characteristic dimming properties and flare association

Karin Dissauer, **Astrid M. Veronig**, **Manuela Temmer**, **Tatiana Podladchikova**, **Kamalam Vanninathan**

ApJ 2018

<https://arxiv.org/pdf/1807.05056.pdf>

Negative Microwave Bursts

Victor Grechnev and **Hugh Hudson**

RHESSI Science Nugget, No. 206, Aug 2013.

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

Microwave Negative Bursts as Indications of Reconnection between Eruptive Filaments and Large-Scale Coronal Magnetic Environment

V. Grechnev, **I. Kuzmenko**, **A. Uralov**, **I. Chertok**, **A. Kochanov**

E-print, Aug 2013, PASJ

14 Dec

Hydrogen and the Abundances of Elements in Impulsive Solar Energetic-Particle Events

Donald V. Reames

Solar Phys. 2019

<https://arxiv.org/ftp/arxiv/papers/1901/1901.04369.pdf>

15-16 Dec

Probing the Density Fine Structuring of the Solar Corona with Comet Lovejoy

[Giuseppe Nisticò](#), [Gaetano Zimbardo](#), [Silvia Perri](#), [Valery M. Nakariakov](#), [Timothy J. Duckenfield](#), [Miloslav Druckmueller](#)

ApJ 2022

<https://arxiv.org/pdf/2209.04051.pdf>

16 Dec

The Solar Corona as probed by Comet Lovejoy (C/2011 W3)

[J. C. Raymond](#) (CfA), [P. I. McCauley](#) (CfA), [S. R. Cranmer](#) (CfA), [C. Downs](#) (PSI)

ApJ, 2014

<http://arxiv.org/pdf/1405.1639v1.pdf>

18 Dec

Using Stereoscopic Observations of Cometary Plasma Tails to Infer Solar Wind Speed

[Long Cheng](#)^{1,2,3}, [Quanhao Zhang](#)^{1,2,3}, [Yuming Wang](#)^{1,2,3}, [Xiaolei Li](#)^{1,2,3}, and [Rui Liu](#)

2020 ApJ 897 87

<https://sci-hub.tw/https://iopscience.iop.org/article/10.3847/1538-4357/ab93b6>

21 Dec

Particle Acceleration in Plasmoid Ejections Derived from Radio Drifting Pulsating Structures

[N. Nishizuka](#)¹, [M. Karlický](#)², [M. Janvier](#)³, and [M. Bárta](#)

2015 ApJ 799 126

<http://arxiv.org/pdf/1412.7904v1.pdf>

22 Dec

Observation of solar radio burst events from Mars orbit with the Shallow Radar instrument

[Christopher Gerekos](#), [Gregor Steinbrügge](#), [Immanuel Jebaraj](#), [Andreas Casillas](#), [Elena Donini](#), [Beatriz Sánchez-Cano](#), [Mark Lester](#), [Jasmina Magdalenić](#), [Sean Peters](#), [Andrew Romero-Wolf](#), [Donald Blankenship](#)

A&A 683, A56 (2024)

<https://arxiv.org/pdf/2307.01747.pdf>

<https://www.aanda.org/articles/aa/pdf/2024/03/aa47900-23.pdf>

22-24 Dec

Prominence instability and CMEs triggered by massive coronal rain in the solar atmosphere

[Z. Vashalomidze](#) (1, 2 and 3), [T. V. Zagharashvili](#) (1, 2 and 3), [V. Kukhianidze](#) (2 and 3), [G.](#)

[Ramishvili](#) (2 and 3), [A. Hanslmeier](#) (1), [P. Gomory](#) (4)

A&A 2021

<https://arxiv.org/pdf/2110.01287.pdf>

24 Dec

Automated Detection of Accelerating Solar Eruptions using Parabolic Hough Transform

[Ritesh Patel](#), [Vaibhav Pant](#), [Priyanka Iyer](#), [Dipankar Banerjee](#), [Marilena Mierla](#), [Matthew J. West](#)

Solar Phys. 2020

<https://arxiv.org/pdf/2010.14786.pdf>

Prominence and Filament Eruptions Observed by the Solar Dynamics Observatory: Statistical Properties, Kinematics, and [Online Catalog](#)

[Patrick I. McCauley](#), [Yingna Su](#), [Nicole Schanche](#), [Kaitlin E. Evans](#), [Chuan Su](#), [Sean McKillop](#), [Katharine K. Reeves](#)

Solar Phys. 2015

<http://arxiv.org/pdf/1505.02090v1.pdf>

25 Dec – 18:16: M4.0 STEREO-A, $A=63,5 \cdot 2/312=0,41 \leftarrow 16 \text{ s } 8\text{s} \rightarrow 0,203$

25 Dec 2011 – 00-02 крупная эрупция центрального северного волокна, **значительные поглощения на 304 Å**, крупный CME;
~08 – эрупция еще одного центрального северного волокна;
- LDE и импульсные вспышки из южной области, вечером CME

Quantification of the Writhe Number of the Evolution of Solar Filament Axes

Zhenjun **Zhou** (周振军)^{1,2,3,4}, Chaowei Jiang⁵, Hongqiang Song⁶, Yuming Wang³, Yongqiang Hao¹, and Jun Cui¹

2023 ApJ 944 175

<https://iopscience.iop.org/article/10.3847/1538-4357/acb6f8/pdf>

Relationships between Photospheric Vertical Electric Currents and Hard X-Ray Sources in Solar Flares: Statistical Study

I.V. Zimovets, **I.N. Sharykin**, **W.Q. Gan**

ApJ 2020

<https://arxiv.org/pdf/2002.06646.pdf>

The Acceleration Process of a Solar Quiescent Filament in the Inner Corona

H. Q. Song, **Y. Chen**, **J. Qiu**, **C. X. Chen**, **J. Zhang**, **X. Cheng**, **Y. D. Shen**, and **R. S. Zheng**

2018 ApJL 857 L21

<http://iopscience.iop.org/article/10.3847/2041-8213/aabcc3/pdf>

A comparative study between a failed and a successful eruption initiated from the same polarity inversion line in AR 11387

Lijuan Liu, **Yuming Wang**, **Zhenjun Zhou**, **Karin Dissauer**, **Manuela Temmer**, **Jun Cui**

ApJ 2018

<https://arxiv.org/pdf/1804.00867.pdf>

Solar Radio Bursts with Spectral Fine Structures in Preflares

Yin Zhang, **Baolin Tan**, **Marian Karlický**, **Hana Mészárosóvá**, **Jing Huang**, **Chengming Tan**, **Paulo Simões**

2014

<http://arxiv.org/pdf/1411.4766v1.pdf>

Pathways of large-scale magnetic couplings between coronal events

C.J. Schrijver, **A.M. Title**, **A.R. Yeates** and **M.L. DeRosa**

E-print, May 2013, File; ApJSS

Polarization Emission of Millimeter Activity at the Sun (POEMAS): New Circular Polarization Solar Telescopes at Two Millimeter Wavelength Ranges

Adriana Valio, **P. Kaufmann**, **C. G. Giménez de Castro**, **J.-P. Raulin**, **L. O. T. Fernandes**, **A. Marun**

Solar Physics, April 2013, Volume 283, Issue 2, pp 651-665

VARIATIONS OF THE MUON FLUX AT SEA LEVEL ASSOCIATED WITH INTERPLANETARY ICMEs AND COROTATING INTERACTION REGIONS

C. R. A. Augusto¹, **V. Kopenkin**¹, **C. E. Navia**¹, **K. H. Tsui**¹, **H. Shigueoka**¹, **A. C. Fauth**², **E.**

Kemp², **E. J. T. Manganote**², **M. A. Leigui de Oliveira**³, **P. Miranda**⁴, **R. Ticona**⁴, and **A. Velarde**

2012 ApJ 759 143

25-27 Dec

Heliospheric Evolution of Magnetic Clouds

Bojan Vršnak, **Tanja Amerstorfer**, **Mateja Dumbović**, **Martin Leitner**, **Astrid M. Veronig**, **Manuela Temmer**, **Christian Möstl**, **Ute V. Amerstorfer**, **Charles J. Farrugia**, **Antoinette B. Galvin**

ApJ 2019
<https://arxiv.org/pdf/1904.08266.pdf>
sci-hub.se/10.3847/1538-4357/ab190a

Influence of coronal mass ejections on parameters of high-speed solar wind: a case study
Yulia Shugay, Vladimir Slemzin, Denis Rodkin, Yuri Yermolaev and Igor Veselovsky
J. Space Weather Space Clim. 2018, 8, A28
<https://www.swsc-journal.org/articles/swsc/pdf/2018/01/swsc170045.pdf>

26 Dec – 02:31: M1.5 вспышка, пересвет на STEREO-A, $A=18 \cdot 2/312=0,12$
20:21: M2.3 вспышка, пересвет на STEREO-A, $A=41 \cdot 2/312=0,26$

26 Dec 2011 - At least a partial halo CME was observed after a filament eruption across the central meridian

Saddle-shaped solar flare arcades
Juraj Lörinčík, Jaroslav Dudík, Guillaume Aulanier
ApJ 2021
<https://arxiv.org/pdf/2102.10858.pdf>

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

An observational study on CME flux ropes near the Sun
G. Sindhuja
VarSITI Newsletter Vol. 21 p. 6-7 2019
http://newserver.stil.bas.bg/varsiti/newsL/VarSITI_Newsletter_Vol21.pdf

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

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

Two-Phase Heating in Flaring Loops
Chunming Zhu, Jiong Qiu, Dana W. Longcope
ApJ 2018
<https://arxiv.org/pdf/1802.00871.pdf>

Gradual Solar Coronal Dimming and Evolution of Coronal Mass Ejection in the Early Phase
Jiong Qiu¹ and Jianxia Cheng
2017 ApJL 838 L6 DOI [10.3847/2041-8213/aa6798](https://doi.org/10.3847/2041-8213/aa6798)
<http://sci-hub.cc/10.3847/2041-8213/aa6798>

Elongation of Flare Ribbons
Jiong Qiu¹, Dana W. Longcope¹, Paul A. Cassak², and Eric R. Priest
2017 ApJ 838 17 DOI [10.3847/1538-4357/aa6341](https://doi.org/10.3847/1538-4357/aa6341)
<http://sci-hub.cc/10.3847/1538-4357/aa6341>

The Nature of CME-Flare Associated Coronal Dimming

J. X. Cheng, J. Qiu

2016

<http://arxiv.org/pdf/1604.05443v1.pdf> File

A Simple Way to Estimate the Soft X-ray Class of Far-Side Solar Flares Observed with STEREO/EUVI

I.M. Chertok (1), A.V. Belov (1), V.V. Grechnev (2)

Solar Phys. 2015

The Relation Between Large-Scale Coronal Propagating Fronts and Type II Radio Bursts

Nariaki V. Nitta, Wei Liu, Nat Gopalswamy, Seiji Yashiro

Solar Phys., 2014

http://www.lmsal.com/nitta/publ/SP_typeII_20140904.pdf

<http://arxiv.org/pdf/1409.4754v1.pdf> File

Polarization Emission of Millimeter Activity at the Sun (POEMAS): New Circular Polarization Solar Telescopes at Two Millimeter Wavelength Ranges

Adriana Valio, P. Kaufmann, C. G. Giménez de Castro, J.-P. Raulin, L. O. T. Fernandes, A. Marun

Solar Physics, April 2013, Volume 283, Issue 2, pp 651-665

27 Dec – 09:26: C4.0 вспышка, **пересвет** на STEREO-A, $A=6*2/312=0,04$

27 Dec 2011 - At least a partial halo CME was associated with the C8 flare in region 11386 early in the day.

Prediction of Solar Flares Using Unique Signatures of Magnetic Field Images

Abbas Raboonik, Hossein Safari, Nasibe Alipour, Michael S. Wheatland

ApJ 2016

<https://arxiv.org/abs/1610.03222>

28 Dec 2011 – 21:20 – NW поглощения на 304 A

29 Dec – 14:16: M1.9 **пересвет** $B=19,5*2/281=0,14$ $\leftarrow 16s$ $8s \rightarrow 13:56$ $B=10*2/281=0,071$
21:56: M2.0 вспышка, **пересвет** на STEREO-B, $B=17*2/281=0,12$

Longitudinal conjunction between MESSENGER and STEREO A: development of ICME complexity through stream interactions

Reka M. Winslow, Noé Lugaz, Nathan A. Schwadron, Charles J. Farrugia, Wenyuan Yu, Jim M. Raines, M. Leila Mays, Antoinette B. Galvin and Thomas H. Zurbuchen

JGR 2016

30 Dec – 03:11: M1.2 вспышка, **пересвет** на STEREO-B, $B=14*2/281=0,1$

30 Dec

Global energetics of solar flares. XIII. The Neupert effect and acceleration of coronal mass ejections

Markus J. Aschwanden

ApJ 2021

<https://arxiv.org/pdf/2112.07759.pdf> File

On the Parallel and Perpendicular Propagating Motions Visible in Polar Plumes: An Incubator For (Fast) Solar Wind Acceleration?

Jiajia Liu, Scott W. McIntosh, Ineke De Moortel, Yuming Wang

2015

<http://arxiv.org/pdf/1507.00143v1.pdf>

Observations of Coronal Mass Ejections with the Coronal Multichannel Polarimeter

H. Tian, S. Tomczyk, S. W. McIntosh, C. Bethge, G. de Toma, S. Gibson

E-print, March 2013, File; *Sol. Phys.* (2013) 288:637–650

31 Dec – 13:16: M2.4 вспышка, **пересвет** на STEREO-B, $B=26*2/280=0,19$

16:26: M1.5 вспышка, **пересвет** на STEREO-B, $B=15*2/280=0,11$

31 Dec

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

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

ApJ 2024

<https://arxiv.org/pdf/2408.05381>

Statistical Studies of Solar White-Light Flares and Comparisons with Superflares on Solar-type Stars

Kosuke Namekata, [Takahito Sakaue](#), [Kyoko Watanabe](#), [Ayumi Asai](#), [Hiroyuki Maehara](#), [Yuta Notsu](#), [Shota Notsu](#), [Satoshi Honda](#), [Takako Ishii](#), [Kai Ikuta](#), [Daisaku Nogami](#), [Kazunari Shibata](#)

ApJ 2017

<https://arxiv.org/pdf/1710.11325.pdf>

Correlation of hard X-ray and white light emission in solar flares

Matej Kuhar, **Säm Krucker**, **Juan Carlos Martínez Oliveros**, **Marina Battaglia**, **Lucia Kleint**, **Diego Casadei**, **Hugh S. Hudson**

ApJ 2015

<http://arxiv.org/pdf/1511.07757v1.pdf>