

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

January 2010

**1 Jan**

[http://solar.gmu.edu/heliophysics/index.php/The\\_ISEST\\_Event\\_List](http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List)

**1-6 Jan**

**CME Velocity and Acceleration Error Estimates Using the Bootstrap Method**

Grzegorz **Michalek**, Nat Gopalswamy, Seiji Yashiro

[Solar Physics](#) August 2017, 292:114

**2 Jan** – 14:23 – C2.6 **пересвет**  $A=25*2/311=0,16$  <--**16 s**; **8 s** → $L/Rs=0.08$   
23:18 – C3.1 **пересвет**  $A=13*2/311=0,08$  <--**16 s**; **8 s** → $L/Rs=0.042$

**3 Jan** – 01:20 – C2.0 вспышка, **пересвет** на STEREO-A,  $A=28,5*2/311= 0,18$   
**Сдвоенный пересвет в двух основаниях**

**4 Jan** – 03:40 – C1.3 **пересвет**  $A=12*2/311= 0,08$  <--**16 s**; **8 s** → $L/Rs=0.039$

**7 Jan**

**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](http://sci-hub.se/10.1007/s11207-019-1448-0)

**10 Jan**

**Enhancing Triangulation of Interplanetary Type III Bursts through Wavevector Correction**

Vratislav **Krupar**<sup>1,2</sup>, Oksana Kruparova<sup>1,2</sup>, Adam Szabo<sup>2</sup>, Rui F. Pinto<sup>3,4</sup>, Milan Maksimovic<sup>5</sup>, and Juan Carlos Martinez Oliveros<sup>6</sup>

2024 ApJ 960 101

<https://iopscience.iop.org/article/10.3847/1538-4357/ad150e/pdf>

**14-15 Jan**

**An Ensemble Study of a January 2010 Coronal Mass Ejection (CME): Connecting a Non-obvious Solar Source with Its ICME/Magnetic Cloud**

D. F. **Webb**, M. M. Bisi, C. A. de Koning, C. J. Farrugia, B. V. Jackson, L. K. Jian, N. Lugaz, K. Marubashi, C. Möstl, E. P. Romashets, ... show all 12

[Solar Phys.](#), 2014

**15 Jan**

**Radio Observations of Coronal Mass Ejections: Space Weather Aspects**

**Review**

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

[Front. Astron. Space Sci.](#) 7:43 2020

<https://www.frontiersin.org/articles/10.3389/fspas.2020.00043/full>

<https://sci-hub.st/10.3389/fspas.2020.00043> **File**

### **Three-Dimensional Evolution of Flux-Rope CMEs and Its Relation to the Local Orientation of the Heliospheric Current Sheet**

A. **Isavnin**, A. Vourlidas, E. K. J. Kilpua  
Solar Phys., 2014, File

### **HIGH ANGULAR RESOLUTION RADIO OBSERVATIONS OF A CORONAL MASS EJECTION SOURCE REGION AT LOW FREQUENCIES DURING A SOLAR ECLIPSE**

R. **Ramesh**, C. Kathiravan, Indrajit V. Barve and M. Rajalingam  
2012 ApJ 744 165

**16 Jan**

### **Association of 3He-Rich Solar Energetic Particles with Large-Scale Coronal Waves**

Radoslav **Bucik**, Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck  
2016

<http://arxiv.org/pdf/1609.05346v1.pdf>

**17 Jan** Анализировалась Гречневый. См. Chains, Events

Old sunspot 1039 still has some life left in it. Jan. 17th, it unleashed a strong solar flare and triggered a solar tsunami.

SOHO/LASCO: large CME

**03:56 -Большая вспышка на STEREO-B**

### **Propagation of a dome-shaped, large-scale extreme-ultraviolet wave in the solar corona**

Gottfried **Mann**<sup>1</sup> and Astrid M. Veronig<sup>2,3</sup>  
A&A 676, A144 (2023)

<https://www.aanda.org/articles/aa/pdf/2023/08/aa45688-22.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>

### **CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS.**

#### **I. THE CASE FOR BLAST WAVES**

T. A. **Howard**<sup>1</sup> and V. J. Pizzo

2016 ApJ 824 92 File

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

**Review**

**Warmuth**, Alexander

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

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

### **An Ensemble Study of a January 2010 Coronal Mass Ejection (CME): Connecting a Non-obvious Solar Source with Its ICME/Magnetic Cloud**

D. F. **Webb**, M. M. Bisi, C. A. de Koning, C. J. Farrugia, B. V. Jackson, L. K. Jian, N. Lugaz, K. Marubashi, C. Möstl, E. P. Romashets, ... show all 12

Solar Phys., 2014

**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. Drogge, and Y. Kartavykh  
E-print, July 2014; A&A, Volume 567, A27, July 2014; [File](#)

**The Wave-Driver System of the Off-Disk Coronal Wave 17 January 2010**

M. [Temmer](#), B. Vrsnak, A. M. Veronig  
E-print, July 2012; Solar Phys. 2013, Volume 287, Issue 1-2, pp 441-454, [File](#)  
[См. Комментарии Гречнева к этой работе](#) [Dear Manuela.doc](#)

**The large longitudinal spread of solar energetic particles during the January 17, 2010 solar event**

N. [Dresing](#), R. Gomez-Herrero, A. Klassen, B. Heber, Y. Kartavykh, W. Drogge  
E-print, 8 June 2012, Solar Physics, November 2012, Volume 281, Issue 1, pp 281-300

**Role of Structured Turbulence in Energetic Particle Propagation**

Timo Laitinen, Silvia Dalla and James Kelly,

UKSP nugget: 25, Aug 2012

<http://www.uksolphys.org/?p=4977>

**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,

**UNCOVERING THE WAVE NATURE OF THE EIT WAVE FOR THE 2010 JANUARY 17 EVENT THROUGH ITS CORRELATION TO THE BACKGROUND MAGNETOSONIC SPEED**

X. H. [Zhao](#)<sup>1,2</sup>, S. T. Wu<sup>2</sup>, A. H. Wang<sup>2</sup>, A. Vourlidas<sup>3</sup>, X. S. Feng<sup>1</sup> and C. W. Jiang  
2011 ApJ 742 131, [File](#)

**Coronal Shock Waves, EUV Waves, and Their Relation to CMEs.**

**III. Shock-Associated CME/EUV Wave in an Event with a Two-Component EUV Transient**

V. V. [Grechnev](#), A. N. Afanasyev, A. M. Uralov, I. M. Chertok, M. V. Eselevich, V. G. Eselevich, G. V. Rudenko and Y. Kubo  
Solar Physics, Volume 273, Number 2, 461-477, 2011, [File in Chertok's papers](#)

**Analysis of characteristic parameters of large-scale coronal waves observed by STEREO/EUVI**

N. [Muh](#)r, A.M. Veronig, I.W. Kienreich, M. Temmer, B. Vrsnak  
E-print, 4 Aug 2011, [File](#);

**STEREO observations of a dome-shaped large-scale coronal EUV wave**

Astrid [Veronig](#), Ines Kienreich, Nicole Muhr, Manuela Temmer, Bojan Vr̃snak  
CESRA\_2010, [Presentation file](#)

**FIRST OBSERVATIONS OF A DOME-SHAPED LARGE-SCALE CORONAL EXTREME-ULTRAVIOLET WAVE**

A. M. [Veronig](#)<sup>1</sup>, N. Muhr<sup>1</sup>, I. W. Kienreich<sup>1</sup>, M. Temmer<sup>1,2</sup>, and B. Vr̃snak<sup>3</sup>  
Astrophysical Journal Letters, 716:L57–L62, 2010 June; [File](#)

[19 Jan](#) – [две залимбовые вспышки с большим пересветом включены в Table \\_2](#)

19 Jan

at 1340 UT, Earth-orbiting satellites detected the strongest solar flare in almost two years. The [M2-class](#) eruption came from old sunspot 1039, currently located behind the sun's eastern limb. NASA's STEREO-B spacecraft recorded this extreme ultraviolet movie of the blast:

Considering the fact that the sunspot is not even visible from Earth, the flare was probably much stronger than its M2 classification would suggest. This active region has produced at least three significant eruptions since Jan. 17th (including [this notable flare](#))

**20 Jan** – 07:51 – M1.6 **пересвет**  $B=40*2/292=0,27$  <--**16 s**; **8 s** →L/Rs=0.137  
11:06 – M1.8 **пересвет**  $B=51*2/292=0,35$  <--**16 s**; **8 s** →L/Rs=0.174  
17:56 – M3.4 **пересвет**  $B=109*2/292=0,345$  <--**16 s**; **8 s** →L/Rs=0.373

## **20 Jan**

### **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>

Region **11041** was very active and appeared to be decaying towards the end of the day. The region is surprisingly small and must have been more complex prior to rotating into view.

**Flares:** C4.0 at 00:22, C1.7 at 02:53, C5.0 at 04:57, C3.9 at 06:18, M1.0 at 07:27, M1.6 at 07:49, C3.7 at 09:29, M1.8 at 10:59, C3.9 at 12:32, C1.3 at 13:25, C2.2 at 15:20, C1.0 at 17:33 and M3.4 at 17:55 UTC.

## **20-21 Jan**

### **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**

### **The Solar Internetwork. I. Contribution to the Network Magnetic Flux**

Milan [Gošić](#), Luis R. Bellot Rubio, David Orozco Suárez, Yukio Katsukawa, Jose Carlos Del Toro Iniesta  
ApJ, **2014**

### **An Ensemble Study of a January 2010 Coronal Mass Ejection (CME): Connecting a Non-obvious Solar Source with Its ICME/Magnetic Cloud**

D. F. [Webb](#), M. M. Bisi, C. A. de Koning, C. J. Farrugia, B. V. Jackson, L. K. Jian, N. Lugaz, K. Marubashi, C. Möstl, E. P. Romashets, ... show all 12  
Solar Phys., **2014**

**21 Jan** – 01:21 – C4.9 **пересвет**  $B=30*2/311=0,19$  <--**16 s**; **8 s** →L/Rs=0.096

## **22 Jan**

### **Mass and energy of erupting solar plasma observed with the X-Ray Telescope on Hinode**

Jin-Yi [Lee](#), John C. Raymond, Katharine K. Reeves, Yong-Jae Moon, and Kap-Sung Kim  
ApJ, **2014**

<http://arxiv.org/pdf/1411.2229v1.pdf>

## **24 Jan**

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

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

Solar Phys., 2014

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

**26 Jan**

## 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>

## No universal connection between the vertical magnetic field and the umbra-penumbral boundary in sunspots

B. [Loptien](#), [A. Lagg](#), [M. van Noort](#), [S. K. Solanki](#)

A&A 2020

<https://arxiv.org/pdf/2006.02346.pdf>

## <sup>3</sup>He-rich solar energetic particles: Solar sources

**Review**

R. [Bucik](#)

Space Sci Rev volume 216, Article number: 24 (2020) File

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

## OBSERVATIONS OF EUV WAVES IN <sup>3</sup>He-RICH SOLAR ENERGETIC PARTICLE EVENTS

R. [Bućik](#)<sup>1,2,3</sup>, D. E. Innes<sup>1,2</sup>, L. Guo<sup>1,2</sup>, G. M. Mason<sup>4</sup>, and M. E. Wiedenbeck

2015 ApJ 812 53

<http://arxiv.org/pdf/1512.04664v1.pdf>

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

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

Solar Phys., 2014

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

**29 Jan**

## *Allen Telescope Array* Multi-frequency Observations of the Sun

P. [Saint-Hilaire](#), G. J. Hurford, G. Keating, G. C. Bower and C. Gutierrez-Kraybill

E-print, Nov 2011

Solar Physics, Volume 277, Number 2, 431-445, 2012, E-print File

**30 Jan**

## 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>

## Mass and energy of erupting solar plasma observed with the X-Ray Telescope on Hinode

Jin-Yi [Lee](#), John C. Raymond, Katharine K. Reeves, Yong-Jae Moon, and Kap-Sung Kim

ApJ, 2014

<http://arxiv.org/pdf/1411.2229v1.pdf>

## 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>

**31 Jan**

**Association of 3He-Rich Solar Energetic Particles with Large-Scale Coronal Waves**

Radoslav **Bucik**, Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck  
2016  
<http://arxiv.org/pdf/1609.05346v1.pdf>

**1 Feb**

**Self-similar expansion of solar coronal mass ejections: implications for Lorentz self-force driving**

Prasad **Subramanian**, K. P. Arunbabu, Angelos Vourlidas, Adwiteey Mauriya  
ApJ, **2014**  
<http://arxiv.org/pdf/1406.0286v1.pdf>

**Three-Dimensional Evolution of Flux-Rope CMEs and Its Relation to the Local Orientation of the Heliospheric Current Sheet**

A. **Isavnin**, A. Vourlidas, E. K. J. Kilpua  
Solar Phys., **2014**, **File**

**Three-Dimensional Properties of Coronal Mass Ejections from STEREO/SECCHI Observations**

E. **Bosman**, V. Bothmer, G. Nisticò, A. Vourlidas, R. A. Howard, J. A. Davies  
Solar Physics, November **2012**, Volume 281, Issue 1, pp 167-185, **File**

**2 Feb**

**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>

**OBSERVATIONS OF EUV WAVES IN 3He-RICH SOLAR ENERGETIC PARTICLE EVENTS**

R. **Bučík**<sup>1,2,3</sup>, D. E. Innes<sup>1,2</sup>, L. Guo<sup>1,2</sup>, G. M. Mason<sup>4</sup>, and M. E. Wiedenbeck  
**2015** ApJ 812 53  
<http://arxiv.org/pdf/1512.04664v1.pdf>

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

M. E. **Wiedenbeck**<sup>1</sup>, G. M. Mason<sup>2</sup>, C. M. S. Cohen<sup>3</sup>, N. V. Nitta<sup>4</sup>, R. Gómez-Herrero<sup>5,6</sup>, and D. K Haggerty  
**2013** ApJ 762 54

**Full Sun monochromatic images**

Ignacio **Ugarte-Urra** and Harry Warren  
Hinode EIS science nugget 28 Feb **2011**  
<http://msslxr.mssl.ucl.ac.uk:8080/SolarB/eisnuggets.jsp>

**3 Feb**

## Drag-based CME modeling with heliospheric images incorporating frontal deformation: ELEvoHI 2.0

J. Hinterreiter, T. Amerstorfer, M. Temmer, M. A. Reiss, A. J. Weiss, C. Möstl, L. A. Barnard, J. Pomoell, M. Bauer, U. V. Amerstorfer

Space Weather **Volume19, Issue10** e2021SW002836 2021

<https://arxiv.org/pdf/2108.08075.pdf>

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2021SW002836>

<https://doi.org/10.1029/2021SW002836>

**5 Feb** STEREO-B spacecraft is tracking four active regions strung across the eastern hemisphere of the sun. The blast occurred around 0130 UT on February 5th and it appears to have hurled some material in the general direction of Earth.

## 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>

### > 5 Feb

#### Study of the first productive active region in solar cycle 24

L. P. Li, J. Zhang, T. Li, S. H. Yang and Y. Z. Zhang

A&A 539, A7 (2012)

### 5-6 Feb

#### STEREO Observations of Interplanetary Coronal Mass Ejections in 2007–2016

L. K. Jian<sup>1,2</sup>, C. T. Russell<sup>3,4</sup>, J. G. Luhmann<sup>5</sup>, and A. B. Galvin<sup>6,7</sup>

2018 ApJ 855 114

<http://sci-hub.tw/http://iopscience.iop.org/0004-637X/855/2/114/>

**6 Feb** – 19:03 – M2.9 вспышка, **пересвет** на STEREO-A,  $A=53*2/312=0,34$  прилиб **8 s**  
19:01 – B=40\*2/295=0,27 **разница во времени**  
21:36 – M1.3 вспышка, **пересвет** на STEREO-B B=17\*2/295=0,12 **8 s**

**February 6:** A CME was observed off of the east limb after an M2 flare in region 11045.

## 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>

## 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

### February 6-7

#### SOLAR RADIO TYPE-I NOISE STORM MODULATED BY CORONAL MASS EJECTIONS

K. Iwai<sup>1</sup>, Y. Miyoshi<sup>2</sup>, S. Masuda<sup>2</sup>, M. Shimojo<sup>3</sup>, D. Shiota<sup>4</sup>, S. Inoue<sup>5</sup>, F. Tsuchiya<sup>1</sup>, A. Morioka<sup>1</sup> and H. Misawa

2012 ApJ 744 167, File

### 6-9 Feb

## Drag-based CME modeling with heliospheric images incorporating frontal deformation: ELEvoHI 2.0

J. [Hinterreiter](#), [T. Amerstorfer](#), [M. Temmer](#), [M. A. Reiss](#), [A. J. Weiss](#), [C. Möstl](#), [L. A. Barnard](#), [J. Pomoell](#), [M. Bauer](#), [U. V. Amerstorfer](#)  
Space Weather **Volume19, Issue10** e2021SW002836 2021  
<https://arxiv.org/pdf/2108.08075.pdf>  
<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2021SW002836>  
<https://doi.org/10.1029/2021SW002836>

**7 Feb** – 02:36 – M6.4 вспышка, **пересвет** на STEREO-A,  $A=72*2/312=0,462$   
 $B=68*2/296=0,459$   
04:53 – C9.9 вспышка, **пересвет** на STEREO-B,  $B=22,5*2/296=0,15$   
04:56  $A=15*2/312=0,1$  другое время, прилиб

**February 7:** A full halo CME was observed following an M6 flare in region 11045. A major M6.4/1N flare was recorded at 02:34 UTC. This event was associated with a CME which very likely will impact Earth, probably on February 9. Other flares: C1.1 at 03:29, C9.9/1F at 04:52, C4.2 at 21:15, C4.2 at 21:39 and C1.0 at 22:31 UTC. **See Events**

### **Precipitation and Release of Solar Energetic Particles from the Solar Coronal Magnetic Field**

Ming [Zhang](#) and Lulu Zhao

2017 ApJ 846 107

<https://iopscience.iop.org/article/10.3847/1538-4357/aa86a8/pdf>

### **Large gradual solar energetic particle events** **Review**

Mihir [Desai](#), Joe Giacalone

Living Reviews in Solar Physics, December 2016, 13:3

<http://solarphysics.livingreviews.org/>

### **Evolution and Consequences of Coronal Mass Ejections in the Heliosphere**

[Wageesh Mishra](#)

The **thesis** was submitted in Mar 2015 to MLS university, Udaipur, for which the university granted the degree in Jan 2016

<https://arxiv.org/pdf/2204.09879.pdf>

### **Wide longitudinal distribution of interplanetary electrons following the 7 February 2010 solar event: Observations and transport modeling**

W. [Dröge](#)<sup>1,\*</sup>, Y. Y. Kartavykh<sup>1,2</sup>, N. Dresing<sup>3</sup>, B. Heber<sup>3</sup> and A. Klassen

JGR Volume 119, Issue 8, pages 6074–6094, August 2014

### **Statistical survey of widely spread out solar electron events observed with STEREO and ACE with special attention to anisotropies**

N. [Dresing](#), R. Gómez-Herrero, B. Heber, A. Klassen, O. Malandraki, W. Dröge, and Y. Kartavykh  
E-print, July 2014; A&A, Volume 567, A27, July 2014; **File**

### **Kinematic Properties of Slow ICMEs and an Interpretation of a Modified Drag Equation for Fast and Moderate ICMEs**

T. [Iju](#), M. Tokumaru, K. Fujiki

Solar Physics, June 2014, Volume 289, Issue 6, pp 2157-2175

<http://arxiv.org/pdf/1401.1724v1.pdf>

## Estimating the Arrival Time of Earth-directed Coronal Mass Ejections at in Situ Spacecraft Using COR and HI Observations from STEREO

Wageesh [Mishra](#) and Nandita Srivastava

2013 ApJ 772 70

<http://arxiv.org/pdf/1306.1397v1.pdf>

## Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study<sup>†</sup>

H. [Xie](#), O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades

JGR, 2013, File

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

M. E. [Wiedenbeck](#)<sup>1</sup>, G. M. Mason<sup>2</sup>, C. M. S. Cohen<sup>3</sup>, N. V. Nitta<sup>4</sup>, R. Gómez-Herrero<sup>5,6</sup>, and D. K

Haggerty

2013 ApJ 762 54

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

M. E. [Wiedenbeck](#)<sup>1</sup>, G. M. Mason<sup>2</sup>, C. M. S. Cohen<sup>3</sup>, N. V. Nitta<sup>4</sup>, R. Gómez-Herrero<sup>5,6</sup>, and D. K

Haggerty

2013 ApJ 762 54

## A multiwavelength study of an M-class flare and the origin of an associated eruption from NOAA AR 11045

[Dwivedi](#), B. N.; Srivastava, Abhishek K.; Kumar, Mukul; Kumar, Pankaj

E-print, March 2012, New Astr.

**8 Feb** – 04:21 – C7.7 вспышка, **пересвет** на STEREO-A,  $A=18,5*2/311=0,119$

07:46 – M4.0 вспышка, **пересвет** на STEREO-A,  $A=39,5*2/311=0,254$

$B=30*2/295=0,20$  **прилимб**

12:01 – M1.1 вспышка, **пересвет** на STEREO-A,  $A=24*2/311=0,154$

$B=19*2/295=0,13$  **прилимб**

13:46 – M2.0 вспышка, **пересвет** на STEREO-A,  $A=23*2/311=0,148$

$B=18*2/295=0,12$  **прилимб**

21:26 – M1.0 вспышка, **пересвет** на STEREO-A  $A=28,5*2/311=0,183$

## February 8

### A time series of filament eruptions observed by three eyes from space: from failed to successful eruptions

Yuandeng [Shen](#), Yu Liu, and Rui Liu

E-print, July 2013; Research in Astronomy and Astrophysics Volume 11 Number 5, 2011

## Large gradual solar energetic particle events

**Review**

Mihir [Desai](#), Joe Giacalone

Living Reviews in Solar Physics, December 2016, 13:3

<http://solarphysics.livingreviews.org/>

## RELATION BETWEEN THE CORONAL MASS EJECTION ACCELERATION AND THE NON-THERMAL FLARE CHARACTERISTICS

S. [Berkebile-Stoiser](#), A. M. Veronig, B. M. Bein, and M. Temmer

2012 ApJ 753 88, File

## **Interaction and Eruption of Two Filaments Observed by Hinode, SOHO, and STEREO**

Y. [Li](#) and M. D. Ding

E-print, 18 Nov **2011**, [File](#); Research in Astron. Astrophys.

## **SUB-THz AND H $\alpha$ ACTIVITY DURING THE PREFLARE AND MAIN PHASES OF A GOES CLASS M2 EVENT**

Pierre [Kaufmann](#)<sup>1,2</sup>, Rogério Marcon<sup>3,4</sup>, C. Guillermo Giménez de Castro<sup>1</sup>, Stephen M. White<sup>5</sup>, Jean-Pierre Raulin<sup>1</sup>, Emilia Correia<sup>1,6</sup>, Luis Olavo Fernandes<sup>1</sup>, Rodney V. de Souza<sup>1</sup>, Rodolfo Godoy<sup>7</sup>, Adolfo Marun<sup>7</sup> and Pablo Pereyra<sup>7</sup>

**2011** ApJ 742 106

## **LYRA OBSERVATIONS OF TWO OSCILLATION MODES IN A SINGLE FLARE**

T. [Van Doorselaere](#)<sup>1,5</sup>, A. De Groof<sup>2</sup>, J. Zender<sup>3</sup>, D. Berghmans<sup>4</sup> and M. Goossens

**2011** ApJ 740 90

### **9-17 Feb**

## **Differences between the CME fronts tracked by an expert, an automated algorithm, and the Solar Stormwatch project**

L. [Barnard](#), C. J. Scott, M. Owens, M. Lockwood, S. R. Crothers, J. A. Davies and R. A. Harrison  
Space Weather 13(10) (pages 709–725) **2015**

<http://onlinelibrary.wiley.com/doi/10.1002/2015SW001280/epdf>

### **February 10**

## **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>

## **RELATION BETWEEN THE CORONAL MASS EJECTION ACCELERATION AND THE NON-THERMAL FLARE CHARACTERISTICS**

S. [Berkebile-Stoiser](#), A. M. Veronig, B. M. Bein, and M. Temmer

**2012** ApJ 753 88, [File](#)

### **11 Feb**

## **Fine Structures of an EUV Wave Event from Multi-Viewpoint Observations**

Ramesh [Chandra](#), [P. F. Chen](#), [Pooja Devi](#), [Reetika Joshi](#), [Brigitte Schmieder](#), [Yong-Jae Moon](#) [Wahab Uddin](#)

ApJ **2021**

<https://arxiv.org/pdf/2106.14024.pdf>

## **EUV imaging and spectroscopy for improved space weather forecasting**

**Review**

Leon [Golub](#)<sup>1\*</sup>, Peter Cheimets<sup>1</sup>, Edward E. DeLuca<sup>1</sup>, Chad A. Madsen<sup>1</sup>, Katharine K. Reeves<sup>1</sup>, Jenna Samra<sup>1</sup>, Sabrina Savage<sup>2</sup>, Amy Winebarger<sup>2</sup> and Alexander R. Brucoleri<sup>3</sup>

J. Space Weather Space Clim. **2020**, 10, 37

<https://doi.org/10.1051/swsc/2020040>

<https://www.swsc-journal.org/articles/swsc/pdf/2020/01/swsc200031.pdf>

## **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>

**11-17 Feb**

## PHOTOSPHERIC FLUX CANCELLATION AND THE BUILD-UP OF SIGMOIDAL FLUX ROPES ON THE SUN

A. S. Savcheva<sup>1,2</sup>, L. M. Green<sup>3</sup>, A. A. van Ballegooijen<sup>1</sup>, and E. E. DeLuca  
2012 ApJ 759 105

**12 Feb** – 07:31 – C7.9 вспышка, **пересвет** на STEREO-B,  $B=10^2/296=0.068$   
11:26 – M8.3 вспышка, **пересвет** на STEREO-B,  $B=80^2/296=0.54$   
18:18 – M1.1 вспышка, **пересвет** на STEREO-A,  $A=25^2/312=0.16$

**February 12:**

### First detection of metric emission from a solar surge

[C. E. Alissandrakis](#), [S. Patsourakos](#), [A. Nindos](#), [C. Bouratzis](#), [A. Hillaris](#)

A&A 2022

<https://arxiv.org/pdf/2203.01043.pdf>

### Multi-wavelength Observations of a Metric Type-II Event

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

A&A 654, A112 2021

<https://arxiv.org/pdf/2108.02855.pdf>

<https://www.aanda.org/articles/aa/pdf/2021/10/aa41672-21.pdf>

<https://doi.org/10.1051/0004-6361/202141672>

CESRA # 3140 2021 <https://www.astro.gla.ac.uk/users/eduard/cesra/?p=3140>

### Catalog of Hard X-ray Solar Flares Detected with Mars Odyssey/HEND from the Mars Orbit in 2001-2016

M.A. [Livshits](#), I.V. Zimovets, D.V. Golovin, [B.A. Nizamov](#), [V.I. Vybornov](#), [I.G. Mitrofanov](#), [A.S. Kozyrev](#), [M.L. Litvak](#), [A.B. Sanin](#), [V.I. Tretyakov](#)

Astronomy Reports 2017

<https://arxiv.org/pdf/1706.01116.pdf>

### Association of 3He-Rich Solar Energetic Particles with Large-Scale Coronal Waves

Radoslav [Bucik](#), Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck

2016

<http://arxiv.org/pdf/1609.05346v1.pdf>

### Last news on zebra pattern

Gennady [Chernov](#)

Solar Phys. 2016

<http://arxiv.org/ftp/arxiv/papers/1512/1512.06311.pdf>

### Evolution and Consequences of Coronal Mass Ejections in the Heliosphere

[Wageesh Mishra](#)

The **thesis** was submitted in Mar 2015 to MLS university, Udaipur, for which the university granted the degree in Jan 2016

<https://arxiv.org/pdf/2204.09879.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>

## **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

## **РАДИОИЗЛУЧЕНИЕ СОЛНЕЧНОЙ ВСПЫШКИ 12.02.2010 г. И РЕЖИМЫ УСКОРЕНИЯ ЭЛЕКТРОНОВ**

Р. В. **Горгуца**<sup>1</sup>, В. А. Ковалев<sup>1</sup>, И. Г. Костюченко<sup>2</sup>, А. К. Маркеев<sup>1</sup>, Д. Е. Соболев<sup>1</sup>, В. В. Фомичев  
ГЕОМАГНЕТИЗМ И АЭРОНОМИЯ, 2015, том 55, № 3, с. 1–5

## **Fine structural features of radio-frequency radiation of the solar flare of February 12, 2010** **Chernov, G. P.**; **Fomichev, V. V.**; **Gorgutsa, R. V.**; **Markeev, A. K.**; **Sobolev, D. E.**; **Hillaris, A.**; **Alissandrakis, K.**

Geomagnetism and Aeronomy, Volume 54, Issue 4, pp.406-415, 2014  
DOI: [10.1134/S0016793214040021](https://doi.org/10.1134/S0016793214040021)

## **A Comparison of Reconstruction Methods for the Estimation of Coronal Mass Ejections Kinematics Based on SECCHI/HI Observations**

Wageesh **Mishra**, Nandita Srivastava, and Jackie A. Davies  
2014 ApJ 784 135  
<http://arxiv.org/pdf/1407.8446v1.pdf>

## **Estimating the Arrival Time of Earth-directed Coronal Mass Ejections at in Situ Spacecraft Using COR and HI Observations from STEREO**

Wageesh **Mishra** and Nandita Srivastava  
2013 ApJ 772 70  
<http://arxiv.org/pdf/1306.1397v1.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

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

M. E. **Wiedenbeck**<sup>1</sup>, G. M. Mason<sup>2</sup>, C. M. S. Cohen<sup>3</sup>, N. V. Nitta<sup>4</sup>, R. Gómez-Herrero<sup>5,6</sup>, and D. K. Haggerty  
2013 ApJ 762 54

## **IMPULSIVE ACCELERATION OF CORONAL MASS EJECTIONS. II. RELATION TO SOFT X-RAY FLARES AND FILAMENT ERUPTIONS**

**B. M. Bein**<sup>1</sup>, **S. Berkebile-Stoiser**<sup>1</sup>, **A. M. Veronig**<sup>1</sup>, **M. Temmer**<sup>1</sup>, and **B. Vršnak**  
2012 ApJ 755 44, File

## **Multi-Wavelength Observations of a Flux Rope Failed in the Eruption and Associated M-Class Flare from NOAA AR 11045**

Pankaj **Kumar**<sup>1;2</sup> \_ A.K. Srivastava<sup>1;4</sup> \_ B. Filippov<sup>3</sup> \_ R. Erdelyi<sup>4</sup> \_ Wahab Uddin<sup>1</sup>  
E-print, July 2011, File;

**Чернов** Г.П., Фомичев В.В., Горгуца Р.В., Маркеев А.К., Соболев Д.Е. **Сложные жгуты волокон в диапазоне 180 – 270 МГц в явлении 12 февраля 2010 г.** ИКИ, февр. 2011 г.

**12-14 Feb**

**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>

**February 13: STEREO Earth-directed CME**  
**Coronal mass ejections and radio related aspects**

M. **Temmer**  
CESRA\_2010, Presentation File

**14 Feb**

**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>

**Self-similar expansion of solar coronal mass ejections: implications for Lorentz self-force driving**

Prasad **Subramanian**, K. P. Arunbabu, Angelos Vourlidas, Adwiteey Mauriya  
ApJ, **2014**  
<http://arxiv.org/pdf/1406.0286v1.pdf>

**February 17**

**THE TEMPERATURE DEPENDENCE OF SOLAR ACTIVE REGION OUTFLOWS**

Harry P. **Warren**, Ignacio Ugarte-Urra<sup>1</sup>, Peter R. Young<sup>1</sup>, and Guillermo Stenborg<sup>2</sup>  
Astrophysical Journal, 727:58 (5pp), **2011** January

**18 Feb**

**Energy spectra of 3He-rich solar energetic particles associated with coronal waves**

R. **Bucik**, D. E. Innes, G. M. Mason, M. E. Wiedenbeck  
Presented at 15th Annual International Astrophysics Conference "The Science of Ed Stone". Journal of Physics: Conference Series **2016**  
<http://arxiv.org/pdf/1609.07266v1.pdf>

**19 Feb**

**Association of 3He-Rich Solar Energetic Particles with Large-Scale Coronal Waves**

Radoslav **Bucik**, Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck  
2016  
<http://arxiv.org/pdf/1609.05346v1.pdf>

**20 Feb**

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

M. E. **Wiedenbeck**<sup>1</sup>, G. M. Mason<sup>2</sup>, C. M. S. Cohen<sup>3</sup>, N. V. Nitta<sup>4</sup>, R. Gómez-Herrero<sup>5,6</sup>, and D. K Haggerty  
**2013** ApJ 762 54

**February 22**

**Electron Spikes, Type III Radio Bursts and EUV Jets on 22 February 2010**

A. **Klassen**, R. Gómez-Herrero and B. Heber  
Solar Physics, Volume 273, Number 2, 413-419, **2011**

**February 24:** После 07 UT эрупция крупного волокна от SE лимба до южной/центральной АО. См. **Event**

[http://www.spaceweather.com/swpod2010/25feb10/filament\\_strip\\_anim.gif?PHPSESSID=no1s0th310qb4v6bhjmu6e5kf5](http://www.spaceweather.com/swpod2010/25feb10/filament_strip_anim.gif?PHPSESSID=no1s0th310qb4v6bhjmu6e5kf5)

**25 Feb**

### Comparing the Heliospheric Cataloging, Analysis, and Techniques Service (HELCASTS) Manual and Automatic Catalogues of Coronal Mass Ejections Using Solar Terrestrial Relations Observatory/Heliospheric Imager (STEREO/HI) Data

L. **Rodriguez**, D. Barnes, ……S. Poedts

*Solar Physics* volume 297, Article number: 23 (2022)

<https://link.springer.com/content/pdf/10.1007/s11207-022-01959-w.pdf>

**February 28:** STEREO (Ahead) watched as a strong coronal mass ejection (CME) and an eruptive prominence rose up and stretched way out above the Sun's surface (Feb. 28, 2010).

A backside northern hemisphere filament eruption was the likely source of a CME observed starting in LASCO C3 images at 16:42 UTC on Feb.28.

The far side of the sun is alive with activity. On Feb. 28th, NASA's twin STEREO spacecraft observed one and perhaps two clouds of material [blasting away](#) from a high-latitude, site not visible from Earth. The Solar and Heliospheric Observatory (SOHO) recorded [this movie](#) of the clouds billowing over the sun's northern limb. So far, none of this activity appears to be Earth-directed.

### 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>

### 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

### How Many CMEs Have Flux Ropes? Deciphering the Signatures of Shocks, Flux Ropes, and Prominences in Coronagraph Observations of CMEs

A. **Vourlidas**, B.J. Lynch, R.A. Howard, Y. Li

E-print, July 2012, **File**; *Solar Phys.*

**March 1**, >21: NE limb flare and eruption, See Events

### Self-similar expansion of solar coronal mass ejections: implications for Lorentz self-force driving

Prasad **Subramanian**, K. P. Arunbabu, Angelos Vourlidas, Adwiteey Mauriya

ApJ, 2014

<http://arxiv.org/pdf/1406.0286v1.pdf>

**4 March** – 16:16 – C2.2 **пересвет**  $A=35^*2/312=0,22 <--$  **16 s**; **8 s**  $\rightarrow L/R_s=0.112$

### 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>

**March 6**, NE filament eruption, See Events

**7 March**

**A Statistical Study of Solar Radio Type III Bursts and Space Weather Implication**

[Theogene Ndacyayisenga](#), [Jean Uwamahoro](#), [K. Sasikumar Raja](#), [Christian Monstein](#)

Advances in Space Research **2020**

<https://arxiv.org/pdf/2012.01210.pdf>

**10-16 March**

**Study of the decay rates of the umbral area of sunspot groups by using a high resolution database**

Judit [Muraközy](#)

ApJ **2020**

**March 12**

**Using Stereoscopic Observations of Cometary Plasma Tails to Infer Solar Wind Speed**

Long [Cheng](#)<sup>1,2,3</sup>, Quanhao Zhang<sup>1,2,3</sup>, Yuming Wang<sup>1,2,3</sup>, Xiaolei Li<sup>1,2,3</sup>, and Rui Liu

**2020** ApJ 897 87

<https://sci-hub.tw/https://iopscience.iop.org/article/10.3847/1538-4357/ab93b6>

**AUTOMATIC DETECTION AND TRACKING OF CORONAL MASS EJECTIONS. II. MULTISCALE FILTERING OF CORONAGRAPH IMAGES**

Jason P. [Byrne](#)<sup>1</sup>, Huw Morgan<sup>1,2</sup>, Shadia R. Habbal<sup>1</sup>, and Peter T. Gallagher

**2012** ApJ 752 145 **File**

**March 13\_14, >22:** NE flare and eruption, **See Events**

A partial halo CME was observed in LASCO images early in the day after a C1.5 flare in region 11054 at 23:36 UTC on March 13. The CME was complex with mass ejected near region 11054, across the central meridian and into the northwest limb. Actually there may have been two CMEs occurring at nearly the same time and it is uncertain if the apparent single CME observed in LASCO images is actually two distinct CMEs.

**STEREO-Wind Radio Positioning of an Unusually Slow Drifting Event**

J.C. [Martínez-Oliveros](#), C. Raftery, H. Bain, Y. Liu, M. Pulupa, P. Saint-Hilaire, P. Higgins, V. Krupar, Säm Krucker, S.D. Bale

Solar Phys., **2014**

<http://arxiv.org/pdf/1410.3352v1.pdf>

**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>

**March 14, >12:** NE flare and eruption, **See Events**

**Evolution and Consequences of Coronal Mass Ejections in the Heliosphere**

[Wageesh Mishra](#)

The **thesis** was submitted in Mar **2015** to MLS university, Udaipur, for which the university granted the degree in Jan 2016

<https://arxiv.org/pdf/2204.09879.pdf>

**Estimating the Arrival Time of Earth-directed Coronal Mass Ejections at in Situ Spacecraft Using COR and HI Observations from STEREO**

Wageesh [Mishra](#) and Nandita Srivastava

**2013** ApJ 772 70

<http://arxiv.org/pdf/1306.1397v1.pdf>

## **NEW SOLAR EXTREME-ULTRAVIOLET IRRADIANCE OBSERVATIONS DURING FLARES**

Thomas N. **Woods**<sup>1,9</sup>, Rachel Hock<sup>1</sup>, Frank Eparvier<sup>1</sup>, Andrew R. Jones<sup>1</sup>, Phillip C. Chamberlin<sup>2</sup>, James A. Klimchuk<sup>2</sup>, Leonid Didkovsky<sup>3</sup>, Darrell Judge<sup>3</sup>, John Mariska<sup>4</sup>, Harry Warren<sup>4</sup>, Carolus J. Schrijver<sup>5</sup>, David F. Webb<sup>6</sup>, Scott Bailey<sup>7</sup> and W. Kent Tobiska  
2011 ApJ 739 59

### **March 18**

#### **A solar type II radio burst from CME-coronal ray interaction: simultaneous radio and EUV imaging**

Yao **Chen**, Guohui Du, Li Feng, Shiwei Feng, Xiangliang Kong, Fan Guo, Bing Wang, Gang Li  
2014  
<http://arxiv.org/pdf/1404.3052v1.pdf>

#### **First multiple type II burst recorded at Humain associated with the CME/flare event on 18 March 2010**

J. **Magdalenic**, C. Marque, A.N.Zhukov, D.Berghmans, B.Nicula, I. Dammasch  
CEARA\_2010, **Presentation File**

### **March 19**

#### **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>

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

R. C. **Colaninno**<sup>\*</sup>, A. Vourlidas, C. C. Wu  
Journal of Geophysical Research: Space Physics, Nov 2013; **File**  
<http://arxiv.org/pdf/1310.6680v2.pdf>

### **March 19-23**

#### **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 21**

#### ***Allen Telescope Array* Multi-frequency Observations of the Sun**

P. **Saint-Hilaire**, G. J. Hurford, G. Keating, G. C. Bower and C. Gutierrez-Kraybill  
E-print, Nov 2011  
Solar Physics, Volume 277, Number 2, 431-445, 2012, **E-print File**

### **March 23**

#### **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>

### 25 March

#### **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>

### 26 March

#### **Self-similar expansion of solar coronal mass ejections: implications for Lorentz self-force driving**

Prasad **Subramanian**, K. P. Arunbabu, Angelos Vourlidas, Adwiteey Mauriya  
ApJ, **2014**  
<http://arxiv.org/pdf/1406.0286v1.pdf>

### March 27:

#### **FIRST SPECTROSCOPIC IMAGING OBSERVATIONS OF THE SUN AT LOW RADIO FREQUENCIES WITH THE MURCHISON WIDEFIELD ARRAY PROTOTYPE**

Divya **Oberoi**<sup>1</sup>, Lynn D. Matthews<sup>1</sup>, Iver H. Cairns<sup>2</sup>, David Emrich<sup>3</sup>, Vasili Lobzin<sup>2</sup>, Colin J. Lonsdale<sup>1</sup>,  
et al.  
Astrophysical Journal Letters, 728:L27 (7pp), **2011** February; File

### March 30: SE prominence eruption

SDO [http://science.nasa.gov/science-news/science-at-nasa/2010/21apr\\_firstlight/](http://science.nasa.gov/science-news/science-at-nasa/2010/21apr_firstlight/)

#### **Observational Evidence for a Double-Helix Structure in CMEs and Magnetic Clouds**

Vladimir **Osherovich**, Joseph Fainberg, Alla Webb  
Solar Physics, May **2013**, Volume 284, Issue 1, pp 261-274

#### **Kinematics and helicity evolution of a loop-like eruptive prominence**

K. **Koleva**<sup>1</sup>, M. S. Madjarska<sup>2</sup>, P. Duchlev<sup>1</sup>, C. J. Schrijver<sup>5</sup>, J.-C. Vial<sup>3,4</sup>, E. Buchlin<sup>3,4</sup> and M. Dechev  
E-print, 14 Feb 2012; A&A 540, A127 (**2012**)

### April 3: A long duration event in region 11059 was associated with a partial halo CME.

Хорошая корональная волна. Все это хорошо видно в разных ракурсах также на STEREO-A and B. !!!Событие очень похоже на 12 мая 1997!!!

5-6d: форбуш ~3%, буря Dst~80 nT, Хорошие заблаговременные оценки,

See Events

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**Drag-based model (DBM) tools for forecast of coronal mass ejection arrival time and speed** **Review**

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Zubair I. [Shaikh](#)<sup>1</sup> and Anil N. Raghav<sup>2</sup>  
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**Wageesh Mishra**

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<http://arxiv.org/pdf/1306.1397v1.pdf>

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

R. C. **Colaninno**<sup>\*</sup>, A. Vourlidas, C. C. Wu

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

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

## **OBSERVATIONS AND MAGNETIC FIELD MODELING OF THE FLARE/CORONAL MASS EJECTION EVENT ON 2010 APRIL 8**

Yingna **Su**<sup>1</sup>, Vincent Surges<sup>1,2</sup>, Adriaan van Ballegooijen<sup>1</sup>, Edward DeLuca<sup>1</sup> and Leon Golub

2011 ApJ 734 53, File

## **SDO/AIA OBSERVATION OF KELVIN–HELMHOLTZ INSTABILITY IN THE SOLAR CORONA**

L. **Ofman**<sup>1,2,3</sup> and B. J. Thompson

2011 ApJ 734 L11,

**A comparison of space weather analysis techniques used to predict the arrival of the Earth-directed CME and its shockwave launched on 8 April 2010**

Davis, C. J.; de Koning, C. A.; Davies, J. A.; Biesecker, D.; Millward, G.; Dryer, M.; Deehr, C.; Webb, D. F.; Schenk, K.; Freeland, S. L.; MЖstl, C.; Farrugia, C. J.; Odstrcil, D.  
Space Weather, Vol. 9, No. 1, S01005, 2011

**FIRST SDO AIA OBSERVATIONS OF A GLOBAL CORONAL EUV “WAVE”: MULTIPLE COMPONENTS AND “RIPPLES”**

Wei Liu<sup>1,2</sup>, Nariaki V. Nitta<sup>1</sup>, Carolus J. Schrijver<sup>1</sup>, Alan M. Title<sup>1</sup>, and Theodore D. Tarbell<sup>1</sup>  
Astrophysical Journal Letters, 723:L53–L59, 2010, File

**8-11 Apr**

**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>

**April 9**

**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>

**Heliospheric Observations of STEREO-Directed Coronal Mass Ejections in 2008 – 2010: Lessons for Future Observations of Earth-Directed CMEs**

N. Lugaz, P. Kintner, C. Möstl, L. K. Jian, C. J. Davis and C. J. Farrugia  
Solar Physics, 2012, DOI: 10.1007/s11207-012-0007-8

**April 10**

**On the Nature and Genesis of EUV Waves: A Synthesis of Observations from SOHO, STEREO, SDO, and Hinode** Review

Spiros Patsourakos<sup>1</sup> \_ Angelos Vourlidas  
arXiv-print, 2012, File; Solar Physics, Special Issue "The Sun in 360", 2012,

**April 11**

**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>

**12 Apr**

[http://solar.gmu.edu/heliophysics/index.php/The\\_ISEST\\_Event\\_List](http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List)

**April 13:** Крупная эрупция NW-лимбового протуберанца

**A Statistical Analysis of Deflection of Coronal Mass Ejections in the Field of View of LASCO Coronagraphs**

Grzegorz Michalek<sup>1</sup>, Nat Gopalswamy<sup>2</sup>, Seiji Yashiro<sup>2,3</sup>, and Kostadinka Koleva<sup>2,3,4</sup>  
2023 ApJ 956 59  
<https://iopscience.iop.org/article/10.3847/1538-4357/acf28d/pdf>

## Two Scenarios for the Eruption of Magnetic Flux Ropes in the Solar Atmosphere

[Filippov](#), B.P., [Den](#), O.E.

[Astronomy Reports](#) 62(5), c. 359-365 2018

<https://link.springer.com/content/pdf/10.1134%2FS1063772918050037.pdf>

## Self-similar expansion of solar coronal mass ejections: implications for Lorentz self-force driving

Prasad [Subramanian](#), K. P. Arunbabu, Angelos Vourlidas, Adwiteey Mauriya

ApJ, 2014

<http://arxiv.org/pdf/1406.0286v1.pdf>

## Study of a Prominence Eruption using PROBA2/SWAP and STEREO/EUVI Data

M. [Mierla](#), D. B. Seaton, D. Berghmans, I. Chifu, A. De Groof, B. Inhester, L. Rodriguez, G. Stenborg, A. N. Zhukov

Solar Physics, August 2013, Volume 286, Issue 1, pp 241-253

## ACCELERATION OF CORONAL MASS EJECTIONS FROM THREE-DIMENSIONAL RECONSTRUCTION OF STEREO IMAGES

Anand D. [Joshi](#) and Nandita Srivastava

2011 ApJ 739 8, [File](#)

## KINEMATICS OF TWO ERUPTIVE PROMINENCES OBSERVED BY EUVI/STEREO

Anand D. [Joshi](#) and Nandita Srivastava

Astrophysical Journal, 730:104 (11pp), 2011 April, [File](#)

**15 Apr**

## Interplanetary Shocks Inducing Magnetospheric Supersubstorms (SML < -2500 nT): Unusual Auroral Morphologies and Energy Flow

Rajkumar [Hajra](#)<sup>1</sup> and Bruce T. Tsurutani<sup>2</sup>

2018 ApJ 858 123

<http://sci-hub.tw/10.3847/1538-4357/aabaed>

**April 19:** Крупная эрупция NW-лимбового протуберанца

SDO [http://science.nasa.gov/science-news/science-at-nasa/2010/27apr10\\_plasmarain/](http://science.nasa.gov/science-news/science-at-nasa/2010/27apr10_plasmarain/)

**20 Apr – 31 May**

## Ionospheric Disturbances and Their Impact on IPS Using MEXART Observations

M. [Rodríguez-Martínez](#), H. R. Pérez-Enríquez, A. Carrillo-Vargas...

Solar Physics, July 2014, Volume 289, Issue 7, pp 2677-2695

**21 Apr**

## LSTM neural network for solar radio spectrum classification

Long [Xu](#), Yi-Hua Yan, Xue-Xin Yu, Wei-Qiang Zhang, Jie Chen, Ling-Yu Duan

RAA 2019 Vol. 19 No. 9, 135(12pp)

<http://www.raa-journal.org/raa/index.php/raa/article/view/4379/4860>

**28 Apr**

## Homologous large-amplitude Nonlinear fast-mode Magnetosonic Waves Driven by Recurrent Coronal Jets

Yuandeng [Shen](#), [Yu Liu](#), [Ying D. Liu](#), [Jiangtao Su](#), [Zehao Tang](#), [Yuhu Miao](#)

ApJ 2018

<https://arxiv.org/pdf/1805.12303.pdf>

### **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>

### **April 29**

### **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>

### **Analysis of characteristic parameters of large-scale coronal waves observed by STEREO/EUVI**

N. **Muhr**, A.M. Veronig, I.W. Kienreich, M. Temmer, B. Vrsnak

The Astrophysical Journal, 739:89 (14pp), **2011** October 1

E-print, 4 Aug **2011**, **File**;

### **April 30**

### **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>

### **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>

### **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**

April 30 – May 1

### **Filament eruption with apparent reshuffle of endpoints**

Boris **Filippov**

MNRAS, **2014**

<http://arxiv.org/pdf/1405.5784v1.pdf>

**May 1:** a magnetic filament on the sun wound itself into a twist and erupted. NASA's STEREO

Ahead spacecraft was in the perfect position to observe the blast.

(see Space Weather News on 13 May). No EIT data.

### **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

### **NEW SOLAR EXTREME-ULTRAVIOLET IRRADIANCE OBSERVATIONS DURING FLARES**

Thomas N. **Woods**<sup>1,9</sup>, Rachel Hock<sup>1</sup>, Frank Eparvier<sup>1</sup>, Andrew R. Jones<sup>1</sup>, Phillip C. Chamberlin<sup>2</sup>, James A. Klimchuk<sup>2</sup>, Leonid Didkovsky<sup>3</sup>, Darrell Judge<sup>3</sup>, John Mariska<sup>4</sup>, Harry Warren<sup>4</sup>, Carolus J. Schrijver<sup>5</sup>, David F. Webb<sup>6</sup>, Scott Bailey<sup>7</sup> and W. Kent Tobiska  
**2011** ApJ 739 59

1 May – 01:31 – C5.7 вспышка, **пересвет** на STEREO-B,  $B=13*2/299=0,087$

### 1-3 May

#### Predictive Capabilities of Corotating Interaction Regions using STEREO and Wind in-situ observations

Yutian [Chi](#), [Chenglong Shen](#), [Christopher Scott](#), [Mengjiao Xu](#), [Mathew Owens](#), [Yuming Wang](#), [Mike Lockwood](#)

Space Weather e2022SW003112 2022

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2022SW003112>

<https://doi.org/10.1029/2022SW003112>

### 2 May

#### Anisotropy of the solar network magnetic field around the average supergranule

J. [Langfellner](#), L. Gizon, A. C. Birch

A&A 2015

<http://arxiv.org/pdf/1505.01427v1.pdf>

**May 2-3:** Geomagnetic storm  $Dst=-68$ . Solar wind speed ranged between 575 and 794 km/s under the influence of a high speed stream from CH402.

### May 3-5

#### The rotation rate of solar active and ephemeral regions -- I. Dependence on morphology and peak magnetic flux

[Alexander S. Kutsenko](#)

MNRAS 2020

<https://arxiv.org/pdf/2011.12060.pdf>

DOI: [10.1093/mnras/staa3616](https://doi.org/10.1093/mnras/staa3616)

**May 4:** (a) ~07 UT, небольшая южная/центральная эрупция с корональной волной; см. Events

(b) New region **11069** emerged quickly at a high latitude in the northwest quadrant.

**Flare:** C3.6 at 16:29 UTC. Небольшая эрупция, "отгороженная" от направления на Землю корональной дырой; см. Events

#### CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS.

##### I. THE CASE FOR BLAST WAVES

T. A. [Howard](#)<sup>1</sup> and V. J. Pizzo

2016 ApJ 824 92 File

#### Measurements and Modeling of Total Solar Irradiance in X-class Solar Flares

Christopher Samuel [Moore](#)<sup>1,2,3</sup>, Phillip Clyde Chamberlin<sup>4</sup>, and Rachel Hock

2014 ApJ 787 32

#### Extreme Ultraviolet Late-Phase Flares: Before and During the Solar Dynamics Observatory Mission

Thomas N. [Woods](#)

Solar Phys., 2014; File

5 May – 17:21 – M1.2 вспышка, **пересвет** на STEREO-A,  $A=25*2/313=0.16$

**May 5:** (a) NW Region **11069** developed slowly with some polarity intermixing at region center.

**Flares:** C2.3 at 07:16. C8.8 at 11:52 and M1.2 at 17:19 (квазиимпульсные)

см. Events

(b) Эрупции из южной/центральной области в 16:20 с корональной волной, Хорошо видно на STEREO-A; см. Events

(c) 20-21 —эрупция SW прилиम्бового волокна/протуберанца с хорошим CME, см. Events

### **On the variation of the scaling exponent of the flare fluence with temperature**

M. **Kretzschmar**

Solar Phys. 2015

<http://arxiv.org/pdf/1510.01975v1.pdf>

### **The Origin of the EUV Late Phase: A Case Study of the C8.8 Flare on 2010 May 5**

R. A. **Hock**, T. N. Woods, J. A. Klimchuk, F. G. Eparvier, A. R. Jones

ApJ 2012

<http://arxiv.org/pdf/1202.4819v1.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>

### **NEW SOLAR EXTREME-ULTRAVIOLET IRRADIANCE OBSERVATIONS DURING FLARES**

Thomas N. **Woods**<sup>1,9</sup>, Rachel Hock<sup>1</sup>, Frank Eparvier<sup>1</sup>, Andrew R. Jones<sup>1</sup>, Phillip C. Chamberlin<sup>2</sup>, James A. Klimchuk<sup>2</sup>, Leonid Didkovsky<sup>3</sup>, Darrell Judge<sup>3</sup>, John Mariska<sup>4</sup>, Harry Warren<sup>4</sup>, Carolus J. Schrijver<sup>5</sup>, David F. Webb<sup>6</sup>, Scott Bailey<sup>7</sup> and W. Kent Tobiska

2011 ApJ 739 59

### **Impulsive acceleration of coronal mass ejections: I. Statistics and CME source region characteristics**

B. M. **Bein**, S. Berkebile-Stoiser, A. M. Veronig, M. Temmer, N. Muhr, I. Kienreich, D. Utz

E-print, 5 Aug, 2011; 2011 ApJ 738 191, **File**

**May 6-10:** Ряд гомологичных квазиимпульсных эрупций со вспышками балла C из NW Region **11069**

**7 May** – 07:46 – C2.0 вспышка, **пересвет** на STEREO-A,  $A=10*2/313=0.064$

**7 May**

### **The SDO/EVE Solar Irradiance Coronal Dimming Index Catalog. I. Methods and Algorithms**

James Paul **Mason**<sup>1,2</sup>, Raphael Attie<sup>1</sup>, Charles N. Arge<sup>1</sup>, Barbara Thompson<sup>1</sup>, and Thomas N. Woods<sup>2</sup>  
2019 ApJS 244 13

<https://iopscience.iop.org/article/10.3847/1538-4365/ab380e/pdf>

**8 May** – 05:06 – C9.3 вспышка, **пересвет** на STEREO-A,  $A=14*2/313=0.089$   
20:16 – C2.4 **пересвет**  $A=20,5*2/313=0.13 \leftarrow 16 \text{ s} \quad 8 \text{ s} \rightarrow L/Rs=0.065$

**8 May**

### **The SDO/EVE Solar Irradiance Coronal Dimming Index Catalog. I. Methods and Algorithms**

James Paul [Mason](#)<sup>1,2</sup>, Raphael Attie<sup>1</sup>, Charles N. Arge<sup>1</sup>, Barbara Thompson<sup>1</sup>, and Thomas N. Woods<sup>2</sup>  
2019 ApJS 244 13  
<https://iopscience.iop.org/article/10.3847/1538-4365/ab380e/pdf>

**Pseudostreamers as the source of a separate class of solar coronal mass ejections,**

[Wang](#), Y-M.

(2015), Astrophys. J. Lett., 803. L12.

<http://iopscience.iop.org/article/10.1088/2041-8205/803/1/L12/pdf>

**May 12**

**FERMI DETECTION OF  $\gamma$ -RAY EMISSION FROM THE M2 SOFT X-RAY FLARE ON 2010 JUNE 12**

M. [Ackermann](#) et al.

2012 ApJ 745 144; [File](#)

**14 May**

**Association of calcium network bright points with underneath photospheric magnetic patches**

Nancy [Narang](#), [Dipankar Banerjee](#), [Kalugodu Chandrashekar](#), [Vaibhav Pant](#)

Solar Phys. 2019

<https://arxiv.org/pdf/1902.03764.pdf>

**18 May**

**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>

**20 May**

**Effects of non-radial magnetic field on measuring magnetic helicity transport across solar photosphere**

Yongliang [Song](#), Mei Zhang

ApJ 2015

<http://arxiv.org/pdf/1503.08563v1.pdf>

**20-24 May**

**The characteristics of flare- and CME-productive solar active regions**

**Review**

[Ioannis Kontogiannis](#)

Advances in Space Research 2022

<https://arxiv.org/pdf/2210.05453.pdf>

**May 23:** At least a partial halo CME was observed in STEREO images after a **filament eruption** in the northwest quadrant, this was associated with a long duration B1.3 event peaking at 18:01 UTC.; A full halo CME was observed in LASCO images after a filament eruption in the northwest quadrant, this was associated with a long duration B1.3 event peaking at 18:01 UTC.;  
**See Events**

**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>

**Degree of electric current neutralization and the activity in solar Active Regions**

P. [Vemareddy](#)

MNRAS        2019  
<https://arxiv.org/pdf/1904.02648.pdf>

### **Study of Interplanetary and Geomagnetic Response of Filament Associated CMEs**

Kunjai **Dave**, [Wageesh Mishra](#), [Nandita Srivastava](#), [R. M. Jadhav](#)

Proceedings IAU Symposium No. 340, 2018

<https://arxiv.org/pdf/1807.00809.pdf>

### **Dressing the Coronal Magnetic Extrapolations of Active Regions with a Parameterized Thermal Structure**

Gelu M. **Nita**<sup>1</sup>, Nicholeen M. Viall<sup>2</sup>, James A. Klimchuk<sup>2</sup>, Maria A. Loukitcheva<sup>1,3</sup>, Dale E.

Gary<sup>1</sup>, Alexey A. Kuznetsov<sup>4</sup>, and Gregory D. Fleishman

2018 ApJ 853 66

<http://sci-hub.tw/10.3847/1538-4357/aaa4bf>

### **Numerical simulations of ICME-ICME interactions**

Tatiana **Niembro**, [Alejandro Lara](#), [Ricardo F. González](#), [J. Cantó](#)

2018

<https://arxiv.org/pdf/1801.03136.pdf>

### **An Automated Algorithm for Identifying and Tracking Transverse Waves in Solar Images**

Micah J. **Weberg**, Richard J. Morton, and James A. McLaughlin

2018 ApJ 852 57

<http://sci-hub.tw/10.3847/1538-4357/aa9e4a>

### **Electric-Current Neutralization, Magnetic Shear, and Eruptive Activity in Solar Active Regions**

Yang **Liu**, [Xudong Sun](#), [Tibor Török](#), [Viacheslav S. Titov](#), [James E. Leake](#)

ApJ        2017

<https://arxiv.org/pdf/1708.04411.pdf>

### **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>

### **On estimating the force-freeness based on observed magnetograms**

X. M. **Zhang**, M. Zhang, J. T. Su

ApJ        2016

<https://arxiv.org/pdf/1611.03190v1.pdf>

### **Mass Loss Evolution in the EUV Low Corona from SDO/AIA Data**

Fernando M. **López**, Hebe Cremades, Federico A. Nuevo, [Laura A. Balmaceda](#), [Alberto A. Vásquez](#)

Solar Phys.        2016

<https://arxiv.org/pdf/1611.00849v1.pdf>

### **AN ANALYTICAL MODEL OF INTERPLANETARY CORONAL MASS EJECTION INTERACTIONS**

T. **Niembro**<sup>1,3</sup>, J. Cantó<sup>2</sup>, A. Lara<sup>3</sup>, and R. F. González

2015 ApJ 811 69

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

Janusz **Nicewicz**, , Grzegorz Michalek  
Advances in Space Research, **2014**

### **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>

### **THE DEFLECTION OF THE TWO INTERACTING CORONAL MASS EJECTIONS OF 2010 MAY 23-24 AS REVEALED BY COMBINED IN SITU MEASUREMENTS AND HELIOSPHERIC IMAGING**

N. **Lugaz**<sup>1</sup>, C. J. Farrugia<sup>1</sup>, J. A. Davies<sup>2</sup>, C. Möstl<sup>3,4,5</sup>, C. J. Davis<sup>2,6</sup>, I. I. Roussev<sup>7,8</sup>, and M. Temmer  
**2012** ApJ 759 68, **File**

### **23-24 May**

#### **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>

**May 24:** A partial halo CME was observed in LASCO images and was associated with another filament eruption in the same location as one day earlier. **See Events**  
Приличная буря ( $|Dst| \sim 93$  нТл) от этих эрупций после 28(?) мая

### **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>

### **Predicting CMEs using ELEvoHI with STEREO-HI beacon data**

Maïke **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>

### **Using the Coronal Evolution to Successfully Forward Model CMEs' In Situ Magnetic Profiles**

C. **Kay**, N. Gopalswamy  
JGR Volume 122, Issue 12 December **2017** Pages 11,810–11,834  
<http://sci-hub.tw/http://onlinelibrary.wiley.com/doi/10.1002/2017JA024541/abstract;jsessionid=2DF604EC239663BA90D09F3C3BE44317.f01t04>

### **Kinematic Properties of Slow ICMEs and an Interpretation of a Modified Drag Equation for Fast and Moderate ICMEs**

T. **Iju**, M. Tokumaru, K. Fujiki  
Solar Physics, June **2014**, Volume 289, Issue 6, pp 2157-2175  
<http://arxiv.org/pdf/1401.1724v1.pdf>

## **Magnetic Reconnection: From "Open" Extreme-ultraviolet Loops to Closed Post-flare Ones Observed by SDO**

Jun [Zhang](#)<sup>1</sup>, Shuhong Yang<sup>1</sup>, Ting Li<sup>1</sup>, Yuzong Zhang<sup>1</sup>, Leping Li<sup>1</sup>, and Chaowei Jiang  
2013 ApJ 776 57

## **Understanding shock dynamics in the inner heliosphere with modeling and type ii radio data: a statistical study<sup>†</sup>**

H. [Xie](#), O. C. St. Cyr, N. Gopalswamy, D. Odstrcil, H. Cremades  
JGR, 2013, File

## **THE DEFLECTION OF THE TWO INTERACTING CORONAL MASS EJECTIONS OF 2010 MAY 23-24 AS REVEALED BY COMBINED IN SITU MEASUREMENTS AND HELIOSPHERIC IMAGING**

N. [Lugaz](#)<sup>1</sup>, C. J. Farrugia<sup>1</sup>, J. A. Davies<sup>2</sup>, C. Möstl<sup>3,4,5</sup>, C. J. Davis<sup>2,6</sup>, I. I. Roussev<sup>7,8</sup>, and M. Temmer  
2012 ApJ 759 68, File

### **24-29 May**

#### **Forecasting the Structure and Orientation of Earthbound Coronal Mass Ejections**

E. K. J. [Kilpua](#) [N. Lugaz](#) [L. Mays](#) [M. Temmer](#)

Space Weather 17 2019

<https://doi.org/10.1029/2018SW001944>

[sci-hub.se/10.1029/2018SW001944](https://sci-hub.se/10.1029/2018SW001944)

Space Weather Quarterly 16, issue 1, 6 -30 2019

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1002/swq.21>

### **25 May**

#### **Impact of spatially correlated fluctuations in sunspots on metrics related to magnetic twist**

[C. Baumgartner](#), [A. C. Birch](#), [H. Schunker](#), [R.H. Cameron](#), [L. Gizon](#)

A&A 2022

<https://arxiv.org/pdf/2207.02135.pdf>

### **26 May**

#### **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 27**

#### **Three-Dimensional Evolution of Flux-Rope CMEs and Its Relation to the Local Orientation of the Heliospheric Current Sheet**

A. [Isavnin](#), A. Vourlidas, E. K. J. Kilpua

Solar Phys., 2014, File

### **May 28**

[http://solar.gmu.edu/heliophysics/index.php/The\\_ISEST\\_Event\\_List](http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List)

#### **Study of Interplanetary and Geomagnetic Response of Filament Associated CMEs**

Kunjai [Dave](#), [Wageesh Mishra](#), [Nandita Srivastava](#), [R. M. Jadhav](#)

Proceedings IAU Symposium No. 340, 2018

<https://arxiv.org/pdf/1807.00809.pdf>

#### **Coronal mass ejections and their sheath regions in interplanetary space**

**Review**

Emilia [Kilpua](#), Hannu E. J. Koskinen & Tuija I. Pulkkinen

Living Reviews in Solar Physics December 2017, 14:5 **File**  
<https://link.springer.com/content/pdf/10.1007%2Fs41116-017-0009-6.pdf>

## 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](https://dl.dropboxusercontent.com/u/96898685/ms_fr_v4.pdf)

### May 29

**Геомагнитная буря** (2010/05/29 14:00 -85), видимо от северной КД

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

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

## Thermosphere and geomagnetic response to interplanetary coronal mass ejections observed by ACE and GRACE: Statistical results

S. **Krauss**, M. Temmer, A.M. Veronig, O. Baur, H. Lammer  
JGR 2015  
<http://arxiv.org/pdf/1510.03549v1.pdf>

### 29 May-5 June

## Magnetic Power Spectra of Emerging Active Regions

Olga K. **Kutsenko**, **Alexander S. Kutsenko**, **Valentina I. Abramenko**  
Solar Phys. 2019  
<https://arxiv.org/pdf/1907.07952.pdf>

### 30 May

## Evolution of Coronal Cavity from Quiescent to Eruptive Phase in Association with Coronal Mass Ejection

Ranadeep **Sarkar**, **Nandita Srivastava**, **Marilena Mierla**, **Matthew J West**, **Elke D'Huys**  
ApJ 2019  
<https://arxiv.org/pdf/1904.00899.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 31:** A filament eruption was observed in the northwest quadrant just east of CH406 starting at 19:36 UTC.

### June 2010

## Quantitative Evaluation of Coronal Magnetic Field Models Using Tomographic Reconstructions of Electron Density

Shaela I. **Jones**<sup>1,2</sup>, T. J. Wang<sup>1,2</sup>, C. N. Arge<sup>1</sup>, C. J. Henney<sup>3</sup>, V. M. Uritsky<sup>1,2</sup>, and C. Rura<sup>1,2</sup>  
2022 ApJ 928 131  
<https://iopscience.iop.org/article/10.3847/1538-4357/ac5751/pdf>

## June 2

### **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>

## June 4

### **Evolution of Coronal Cavity from Quiescent to Eruptive Phase in Association with Coronal Mass Ejection**

Ranadeep [Sarkar](#), [Nandita Srivastava](#), [Marilena Mierla](#), [Matthew J West](#), [Elke D'Huys](#)

ApJ **2019**

<https://arxiv.org/pdf/1904.00899.pdf>

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

Janusz [Nicewicz](#), , Grzegorz Michalek

Advances in Space Research, **2014**

## June 5

### **Oscillations in Active Region Fan Loops: Observations from EIS/Hinode and AIA/SDO**

S. Krishna [Prasad](#), D. Banerjee, Jagdev Singh

Solar Physics, November **2012**, Volume 281, Issue 1, pp 67-85

## June 6

### **Evolution of Coronal Cavity from Quiescent to Eruptive Phase in Association with Coronal Mass Ejection**

Ranadeep [Sarkar](#), [Nandita Srivastava](#), [Marilena Mierla](#), [Matthew J West](#), [Elke D'Huys](#)

ApJ **2019**

<https://arxiv.org/pdf/1904.00899.pdf>

### **The Build-up to Eruptive Solar Events Viewed as the Development of Chiral Systems**

Sara F. [Martin](#), Olga Panasenco, Mitchell A. Berger, Oddbjorn Engvold, Yong Lin, Alexei A. Pevtsov, Nandita Srivastava

2nd ATST - EAST Workshop in Solar Physics: Magnetic Fields from the Photosphere to the Corona, ASP Conference Series, Vol. 463, p.157, **2012**, [File](#)

## 7 June

### **Recovering the unsigned photospheric magnetic field from Ca II K observations**

Theodosios [Chatzistergos](#), [Iaria Ermolli](#), [Sami K. Solanki](#), [Natalie A. Krivova](#), [Fabrizio Giorgi](#), [Kok Leng Yeo](#)

A&A **2019**

<https://arxiv.org/pdf/1905.03453.pdf>

## June 8

### **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

## June 10-11

**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>

## **DETECTION OF THE HORIZONTAL DIVERGENT FLOW PRIOR TO THE SOLAR FLUX EMERGENCE**

S. [Toriumi](#)<sup>1</sup>, K. Hayashi<sup>2</sup>, and T. Yokoyama

2012 ApJ 751 154

**June 11-12**

## **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>

**12 June** – 01:01 – M2.9 вспышка, **пересвет** на STEREO-A,  $A = 35 \cdot 2 / 313 = 0.223$

09:21 – C6.1 вспышка, **пересвет** на STEREO-A,  $A = 15 \cdot 2 / 313 = 0.096$

**June 12** Две небольшие NW эрупции **Спайковые вспышки**

## **Cold Solar Flares. I. Microwave Domain**

Alexandra L. [Lysenko](#)<sup>1</sup>, Stephen M. White<sup>2</sup>, Dmitry A. Zhdanov<sup>3</sup>, Nataliia S. Meshalkina<sup>3</sup>, Aleksander T. Altyntsev<sup>3</sup>, Galina G. Motorina<sup>1,4,5</sup>, and Gregory D. Fleishman<sup>6,7</sup>

2023 ApJ 954 122

<https://iopscience.iop.org/article/10.3847/1538-4357/acea20/pdf>

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

R. [Bucik](#)

Front. Astron. Space Sci. 9? 807961 2021

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

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

## **FLUKA Simulations of Pion Decay Gamma-radiation from Energetic Flare Ions**

A L [MacKinnon](#) (1), [S. Szpigel](#) (2), [G. Gimenez de Castro](#) (2,3), [J Tuneu](#) (2)

Solar Phys. 2020

<https://arxiv.org/pdf/2009.00414.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](http://www.ioffe.ru/LEA/SF_AR/files/FermiLATSolarFlares_webinar.pdf)

## **Self-consistent Modelling of Gamma-Ray Spectra from Solar Flares with the Monte Carlo Simulation Package FLUKA**

Danele S. [Tusnski](#), [Sergio Szpigel](#), [Carlos Guillermo Giménez de Castro](#), [Alexander L.](#)

[MacKinnon](#), [Paulo José A. Simões](#)

Solar Phys. 2019

<https://arxiv.org/pdf/1907.11575.pdf>

## **Proton Acceleration by Very Impulsive Flare on June 3, 2012**

K. [Kamiya](#), 1) K. Koga, 1) S. Masuda, 2) H. Matsumoto, 1) Y. Muraki, 2) T. Obara, 3) O. Okudaira, 4) Y. Tanaka, 5) S. Shibata, 6) and T. Goka<sup>1</sup>)

**Proc. of 35th International Cosmic Ray Conference — ICRC2017 10–20 July, 2017 Bexco, Busan, Korea**  
<https://pos.sissa.it/301/115/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>

**Association of 3He-Rich Solar Energetic Particles with Large-Scale Coronal Waves**

Radoslav **Bucik**, Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck

**2016**

<http://arxiv.org/pdf/1609.05346v1.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](http://www.lmsal.com/~aschwand/eprints/2016_global4.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**

**Analysis of the Impulsive Phase of Solar Flares with Pass 8 LAT data**

R. **Desiante**, F. Longo, N. Omodei, M. Pesce-Rollins, V. Pelassa for the Fermi-LAT Collaboration

**2014** Fermi Symposium proceedings - eConf C141020.1

<http://arxiv.org/pdf/1502.04916v1.pdf>

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

**Self-similar expansion of solar coronal mass ejections: implications for Lorentz self-force driving**

Prasad **Subramanian**, K. P. Arunbabu, Angelos Vourlidas, Adwiteey Mauriya

ApJ, **2014**

<http://arxiv.org/pdf/1406.0286v1.pdf>

**ОПРЕДЕЛЕНИЕ ВРЕМЕНИ НАЧАЛА УСКОРЕНИЯ РЕЛЯТИВИСТСКИХ ПРОТОНОВ В СОЛНЕЧНЫХ ВСПЫШКАХ**

В.Г.Курт, Б.Ю.Юшков, К.Кудела

ИКИ-2014, Сессия: Солнце

<http://plasma2014.cosmos.ru/presentations>

**Transient Artifacts in a Flare Observed by the Helioseismic and Magnetic Imager on the Solar Dynamics Observatory**

J. C. **Martínez** Oliveros, C. Lindsey, H. S. Hudson, J. C. Buitrago Casas  
Solar Physics, March 2014, Volume 289, Issue 3, pp 809-819

### **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](http://hesperia.gsfc.nasa.gov/senior_review/2013/senior_review_proposal_2013.pdf), 2013, File

### **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](http://solarb.mssl.ucl.ac.uk/SolarB/nuggets/nugget_2013may.jsp)

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

M. **Ackermann**<sup>2</sup>, M. Ajello<sup>3</sup>, A. Albert<sup>4</sup>, A. Allafort<sup>5,1</sup>, L. Baldini<sup>6</sup>, G. Barbiellini<sup>7,8</sup>, D. Bastieri et al.

**Fermi-LAT collaboration**

E-print, April 2013, File; ApJ

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

M. E. **Wiedenbeck**<sup>1</sup>, G. M. Mason<sup>2</sup>, C. M. S. Cohen<sup>3</sup>, N. V. Nitta<sup>4</sup>, R. Gómez-Herrero<sup>5,6</sup>, and D. K Haggerty

2013 ApJ 762 54

### **Charge-exchange Limits on Low-energy $\alpha$ -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>

### **Impulse Response Flares and Gamma Rays**

H. **Hudson** & S. White

RHESSI Science Nugget, No. 188, Nov 2012

### **Detection of Acceleration Processes During the Initial Phase of the 12 June 2010 Flare**

L. K. Kashapova, N. S. Meshalkina, M. S. Kisil

Solar Physics, October 2012, Volume 280, Issue 2, pp 525-535

### **How Many CMEs Have Flux Ropes? Deciphering the Signatures of Shocks, Flux Ropes, and Prominences in Coronagraph Observations of CMEs**

A. **Vourlidas**, B.J. Lynch, R.A. Howard, Y. Li

E-print, July 2012, File; Solar Phys.

### **Fermi Detection of gamma-ray emission from the M2 Soft X-ray Flare on 2010 June 12**

M. **Ackermann**<sup>2</sup>, M. Ajello<sup>3</sup>, A. Allafort<sup>3</sup>, W. B. Atwood<sup>4</sup>, L. Baldini<sup>5</sup>, G. Barbiellini...

E-print, Dec 2011, File; ApJ 2012.745, 144A

**Erratum:** [2012ApJ...748..151A](http://2012ApJ...748..151A) <http://sci-hub.tw/10.1088/0004-637X/748/2/151>

### **The EVE Doppler Sensitivity and Flare Observations**

H. S. **Hudson**, T. N. Woods, P. C. Chamberlin, L. Fletcher, G. Del Zanna, L. Didkovsky, N. Labrosse and D. Graham

### **Spectroscopic analysis of interaction between an EIT wave and a coronal upflow region**

F. [Chen](#), M. D. Ding, P. F. Chen and L. K. Harra  
E-print, 28 July 2011, 2011 ApJ 740 116, [File](#)

### **Black and White Flares**

J.C.M. [Oliveros](#) & C. Lindsey  
RHESSI Science Nugget, 24 Jan 2011  
[http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Black\\_and\\_White\\_Flares](http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/Black_and_White_Flares)

### **Imaging Spectroscopy of a White-Light Solar Flare**

J.C. Martínez [Oliveros](#) · S. Couvidat · J. Schou · S. Krucker · C. Lindsey · H.S. Hudson · P. Scherrer  
Solar Phys (2011) 269: 269–281  
this was the first  $\gamma$ -ray flare of Cycle 24

### **"SDO EVE spectroscopy of solar flares,"**

Phil [Chamberlin](#) and Tom Woods.  
RHESSI Science Nugget, 2010  
See [http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/SDO\\_EVE\\_Flare\\_Observation](http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/SDO_EVE_Flare_Observation)

**June 12-14:** Несколько импульсных вспышек (включая балла M1 и M2) и заметных эрупций (возможно трансэкваториальных) из прилиम्бовой W области (областей) с [корональными волнами](#) и возмущениями волокон; наблюдения на EIT и STEREO-A. 12d, 09:30 – простой **всплеск II типа на нашем спектре**  
**Events 100612a, 100612b**

### **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>

### **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.

### **OFF-LIMB SOLAR CORONAL WAVEFRONTS FROM SDO/AIA EXTREME-ULTRAVIOLET OBSERVATIONS—IMPLICATIONS FOR PARTICLE PRODUCTION**

K. A. [Kozarev](#)<sup>1,5</sup>, K. E. Korreck<sup>2</sup>, V. V. Lobzin<sup>3</sup>, M. A. Weber<sup>2</sup> and N. A. Schwadron  
2011 ApJ 733 L25, [File](#)

### **Imaging Spectroscopy of a White-Light Solar Flare**

J.C. Martínez [Oliveros](#) · S. Couvidat · J. Schou · S. Krucker · C. Lindsey · H.S. Hudson · P. Scherrer  
Solar Phys (2011) 269: 269–281  
this was the first  $\gamma$ -ray flare of Cycle 24

Hugh Hudson, 7 Feb 2011

"At last, the EUV spectrum (of a flare's impulsive phase)" - see  
[http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/RHESSI\\_Science\\_Nuggets](http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/RHESSI_Science_Nuggets)

13 June – 05:43 – M1.0 вспышка, **пересвет** на STEREO-A,  $A=30 \times 2/313=0,192$

**June 13** W лимбовая вспышка и эрупция

### Assessing the spectral characteristics of band splitting type II radio bursts observed by CALLISTO spectrometers

[F. N. Minta](#), [S. Nozawa](#), [K. Kamen](#), [A. Elsaid](#), [A. Ayman](#)

Adv Sp Res. 1-14 (2022)

<https://arxiv.org/ftp/arxiv/papers/2301/2301.13839.pdf>

### Trends and Characteristics of High-Frequency Type II Bursts Detected by CALLISTO Spectrometers

[A.C.Umuhire](#) (1), [J.Uwamahoro](#) (2), [K. Sasikumar Raja](#) (3), [A.Kumar](#) (4), [C.Monstein](#) (5)

Advances In Space Research 2021

<https://arxiv.org/pdf/2106.09310.pdf>

### Finding Spots in a CME-Related Shock Where Physical Conditions Can Emerge Favoring Type II Radio Burst Generation on 2010 June 13

[Y. I. Egorov](#), [V. G. Fainshtein](#) & [D. V. Prosovetskiy](#)

*Solar Physics* volume 296, Article number: 58 (2021)

<https://doi.org/10.1007/s11207-021-01788-3>

<https://link.springer.com/content/pdf/10.1007/s11207-021-01788-3.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>

### Self-similar Piston-Shock and CME

A. M. [Uralov](#), [V. V. Grechnev](#), [L. A. Ivanukin](#)

*Solar Physics* September 2019, 294:113

<https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1506-7.pdf>

### Non-equilibrium ionization effects on solar EUV and X-ray imaging observations

Jin-Yi [Lee](#), [John C. Raymond](#), [Katharine K. Reeves](#), [Chengcai Shen](#), [Yong-Jae Moon](#), [Yeon-Han Kim](#)

ApJ 2019

<https://arxiv.org/pdf/1905.11632.pdf>

### Magnetically Induced Current Piston for Generating Extreme-ultraviolet Fronts in the Solar Corona

Pakorn [Wongwaitayakornkul](#)<sup>1,3</sup>, Magnus A. Haw<sup>1,3</sup>, Hui Li<sup>2</sup>, and Paul M. Bellan<sup>1</sup>

2019 ApJ 874 137

[sci-hub.se/10.3847/1538-4357/ab09f2](https://arxiv.org/abs/1905.11632)

### Evolution of Coronal Cavity from Quiescent to Eruptive Phase in Association with Coronal Mass Ejection

Ranadeep [Sarkar](#), [Nandita Srivastava](#), [Marilena Mierla](#), [Matthew J West](#), [Elke D'Huys](#)

ApJ 2019

<https://arxiv.org/pdf/1904.00899.pdf>

### **A Tiny Eruptive Filament as a Flux-Rope Progenitor and Driver of a Large-Scale CME and Wave**

V.V. **Grechnev** (1), A.M. Uralov (1), A.A. Kochanov (1), I.V. Kuzmenko (2), D.V. Prosovetsky (1), Ya.I. Egorov (1), V.G. Fainshtein (1), L.K. Kashapova  
Solar Phys., 2016

<http://arxiv.org/pdf/1604.00800v1.pdf> File

### **О ВОЗМОЖНОЙ ПРИЧИНЕ ЧАСТОТНОГО РАСЩЕПЛЕНИЯ ГАРМОНИК СОЛНЕЧНОГО РАДИОВСПЛЕСКА ВТОРОГО ТИПА**

В. Г. **Еселевич**, М. В. Еселевич, И. В. Зимовец  
АЖ т92, №12, стр. 977-1008, 2015 File

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

**Warmuth**, Alexander

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

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

### **An observational revisit of band-split solar type-II radio bursts**

Guohui **Du**, Xiangliang Kong, Yao Chen, Shiwei Feng, Bing Wang, Gang Li  
2015

<http://arxiv.org/pdf/1509.03832v1.pdf>

### **Solar type II radio bursts associated with CME expansions as shown by EUV waves**

R. D. **Cunha-Silva**, F. C. R. Fernandes, C. L. Selhorst

A&A 2015

<http://arxiv.org/pdf/1504.04323v1.pdf>

Гречнев (см. Chains\_24)

**Grechnev\_SCOSTEP\_2014** see E:\Chertok\_new\Chains\_24\2010\10\_06\100613

### **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](http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf)

### **Three-Dimensional Evolution of Flux-Rope CMEs and Its Relation to the Local Orientation of the Heliospheric Current Sheet**

A. **Isavnin**, A. Vourlidas, E. K. J. Kilpua

Solar Phys., 2014, File

### **CME Expansion as the Driver of Metric Type II Shock Emission as Revealed by Self-Consistent Analysis of High Cadence EUV Images and Radio Spectrograms**

**Kouloumvakos**, A.; Patsourakos, S.; Hillaris, A.; Vourlidas, A.; Preka-Papadema, P.; Moussas, X.; Caroubalos, C.; Tsitsipis, P.; Kontogeorgos, A.

E-print, Dec 2013, File; Solar Phys.

**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

**Investigation of the Coronal Magnetic Field Using a Type II Solar Radio Burst**

V. **Vasanth**, S. Umapathy, Bojan Vršnak, Tomislav Žic, O. Prakash

Solar Phys., 2013

**DISTURBED ZONE AND PISTON SHOCK AHEAD OF CORONAL MASS EJECTION**

V. **Eselevich** and M. Eselevich

2012 ApJ 761 68

**Solar Radio Bursts and Space Weather**

N. **Gopalswamy**

ISWI Workshop, Oct 2012, Presentation, **File**

**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,

**UNDERSTANDING SDO/AIA OBSERVATIONS OF THE 2010 JUNE 13 EUV WAVE EVENT:  
DIRECT INSIGHT FROM A GLOBAL THERMODYNAMIC MHD SIMULATION**

Cooper **Downs**1, Ilia I. Rousev1, Bart van der Holst2, Noé Lugaz1, and Igor V. Sokolov

2012 ApJ 750 134, **File**

**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>

**CORONAL MAGNETIC FIELD MEASUREMENT FROM EUV IMAGES MADE BY THE  
SOLAR DYNAMICS OBSERVATORY**

Nat **Gopalswamy**1, Nariaki Nitta2, Sachiko Akiyama1,3, Pertti Mäkelä1,3 and Seiji Yashiro

2012 ApJ 744 72, **File**

**Transverse coronal loop oscillations seen by AIA/SDO**

Rebecca **White** and Erwin Verwichte

UKSP Nugget - 17. 2011, <http://www.uksolphys.org/?p=3398>

**Structure and Dynamics of a Polar Crown Cavity as Observed by SDO/AIA**

S. **Régnier**, R. W. Walsh and C. E. Alexander

UKSP Nuggets, Sept 2011

<http://www.uksolphys.org/?p=3253>

**A new look at a polar crown cavity as observed by SDO/AIA Structure and dynamics ★**

S. **Régnier**, R. W. Walsh and C. E. Alexander

A&A 533, L1 (2011), **File**

**OBSERVATIONS AND INTERPRETATION OF A LOW CORONAL SHOCK WAVE  
OBSERVED IN THE EUV BY THE SDO/AIA**

Suli **Ma**1,2, John C. Raymond1, Leon Golub1, Jun Lin3, Huadong Chen2, Paolo Grigis1, Paola Testa1  
and David Long

2011 ApJ 738 160, **File**

## OFF-LIMB SOLAR CORONAL WAVEFRONTS FROM SDO/AIA EXTREME-ULTRAVIOLET OBSERVATIONS—IMPLICATIONS FOR PARTICLE PRODUCTION

K. A. **Kozarev**<sup>1,5</sup>, K. E. Korreck<sup>2</sup>, V. V. Lobzin<sup>3</sup>, M. A. Weber<sup>2</sup> and N. A. Schwadron  
2011 ApJ 733 L25, [File](#)

## The Genesis of an Impulsive Coronal Mass Ejection observed at Ultra-High Cadence by AIA on SDO

S. **Patsourakos**, A. Vourlidas, G. Stenborg

E-print Oct 2010, ApJL, 724:L188–L193, 2010, [File](#)

Movies available at [http://dl.dropbox.com/u/3971111/movies\\_aia\\_cme.tar.gz](http://dl.dropbox.com/u/3971111/movies_aia_cme.tar.gz).

**June 16:** Заметный СМЕ, наблюдавшийся после 11 UT над E лимбом на STEREO-A и над W лимбом на STEREO-B вызван центральной/южной эрупцией. Она весьма слабая, и ничего существенного дать не должна. **Events**

Вероятно, дала форбуш ~1% 21-ого.

See

[http://solar.gmu.edu/wiki/presentations/ISEST\\_2015\\_workshop/WG1\\_data/Nitta\\_stealthy\\_sun\\_earth\\_events.pdf](http://solar.gmu.edu/wiki/presentations/ISEST_2015_workshop/WG1_data/Nitta_stealthy_sun_earth_events.pdf)

## Predicting CMEs using ELEvoHI with STEREO-HI beacon data

Maïke **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>

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

Nishtha **Sachdeva**

Ph.D. **Thesis** 2019

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

## Forecasting the Structure and Orientation of Earthbound Coronal Mass Ejections

E. K. J. **Kilpua**, [N. Lugaz](#), [L. Mays](#), [M. Temmer](#)

Space Weather 17 2019

<https://doi.org/10.1029/2018SW001944>

[sci-hub.se/10.1029/2018SW001944](https://sci-hub.se/10.1029/2018SW001944)

Space Weather Quarterly 16, issue 1, 6–30 2019

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1002/swq.21>

## Effects in extreme ultraviolet and in magnetic field observed during stealth CME formation, geomagnetic responses to its impact on the magnetosphere

Iu.S. **Zagainova** <sup>1</sup>, V.G. Fainshtein <sup>2</sup>, L.I. Gromova <sup>1</sup>, S.V. Gromov

Sun and Geosphere, 2019; 14/1: 25–30

[http://newsserver.stil.bas.bg/SUNGEO//00SGArhiv/SG\\_v14\\_No1\\_2019-pp-25-30.pdf](http://newsserver.stil.bas.bg/SUNGEO//00SGArhiv/SG_v14_No1_2019-pp-25-30.pdf)

## Stealth coronal mass ejections: identification of source regions and geophysical effects.

**Zagainova** Iu.S., Fainshtein V.G., Gromova L.I., Gromov S.V.

Proceedings of Tenth Workshop “Solar Influences on the Magnetosphere, Ionosphere and Atmosphere” Primorsko, Bulgaria, June 4–8, 2018, p.13–18.

## Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures

Nariaki V. **Nitta**, Tamitha Mulligan

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

<https://link.springer.com/article/10.1007%2Fs11207-017-1147-7>

## The Physical Processes of CME/ICME Evolution

**Review**

Ward **Manchester** IV, Emilia K. J. Kilpua, Ying D. Liu, Noé Lugaz, Pete Riley, Tibor Török, Bojan Vršnak

[Space Science Reviews](#) 2017

<https://link.springer.com/content/pdf/10.1007%2Fs11214-017-0394-0.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>

## 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>

## 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>

## 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>

## 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>

## THE FIRST OBSERVATION OF A RAPIDLY ROTATING CORONAL MASS EJECTION IN THE MIDDLE CORONA

A. **Vourlidas**<sup>1</sup>, R. Colaninno<sup>1</sup>, T. Nieves-Chinchilla<sup>2</sup> and G. Stenborg

2011 ApJ 733 L23, File

## June 16-21

### 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>

## **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>

## **Remote and in situ observations of an unusual Earth-directed coronal mass ejection from multiple viewpoints**

**Nieves-Chinchilla**, T.; Colaninno, R.; Vourlidas, A.; Szabo, A.; Lepping, R. P.; Boardsen, S. A.; Anderson, B. J.; Korth, H.

J. Geophys. Res., Vol. 117, No. A6, A06106, 2012

<http://dx.doi.org/10.1029/2011JA017243>

## **16 June-13 July**

### **The Open Flux Problem**

J. A. **Linker**, **R. M. Caplan**, **C. Downs**, **P Riley**, **Z Mikic**, **R. Lionello**, **C. J. Henney**, **C. N. Arge**, **Y. Liu**, **M. L. Derosa**, **A. Yeates**, **M. J. Owens**

2017

<https://arxiv.org/pdf/1708.02342.pdf>

## **June 19**

### **EVIDENCE FOR WIDESPREAD COOLING IN AN ACTIVE REGION OBSERVED WITH THE SDO ATMOSPHERIC IMAGING ASSEMBLY**

Nicholeen M. Viall and James A. Klimchuk

2012 ApJ 753 35

## **June 20** Сложная северо-центральная эрупции. См. **Events**

### **Analysis of a coronal mass ejection and co-rotating interaction region as they travel from the Sun passing Venus, Earth, Mars and Saturn†**

A. J. **Prise**<sup>1,\*</sup>, L. K. Harra<sup>1</sup>, S. A. Matthews<sup>1</sup>, C. S. Arridge<sup>2</sup> and N. Achilleos

JGR 2015

### **Self-similar expansion of solar coronal mass ejections: implications for Lorentz self-force driving**

Prasad **Subramanian**, K. P. Arunbabu, Angelos Vourlidas, Adwiteey Mauriya

ApJ, 2014

<http://arxiv.org/pdf/1406.0286v1.pdf>

## **21 June**

[http://solar.gmu.edu/heliophysics/index.php/The\\_ISEST\\_Event\\_List](http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List)

### **Coronal Mass Ejections from the Sun - Propagation and Near Earth Effects**

Arun **Babu**

THESIS, 2014

<http://arxiv.org/pdf/1407.4258v1.pdf>

### **Self-similar expansion of solar coronal mass ejections: implications for Lorentz self-force driving**

Prasad **Subramanian**, K. P. Arunbabu, Angelos Vourlidas, Adwiteey Mauriya

ApJ, 2014

<http://arxiv.org/pdf/1406.0286v1.pdf>

**June 22**

**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>

**Importance of the H $\alpha$  Visibility and Projection Effects for the Interpretation of Prominence Fine-structure Observations**

Stanislav [Gunár](#)<sup>1,2</sup>, Jaroslav Dudík<sup>1</sup>, Guillaume Aulanier<sup>2</sup>, Brigitte Schmieder<sup>2</sup>, and Petr Heinzel<sup>1</sup>

2018 ApJ 867 115

[sci-hub.tw/10.3847/1538-4357/aae4e1](https://sci-hub.tw/10.3847/1538-4357/aae4e1)

**The magnetic Rayleigh–Taylor instability in solar prominences** **Review**

Andrew [Hillier](#)

[Reviews of Modern Plasma Physics](#) December 2018, 2:1

<https://link.springer.com/content/pdf/10.1007%2Fs41614-017-0013-2.pdf>

**Prominence Visibility in Hinode/XRT images**

Pavol [Schwartz](#), Sonja Jecic, Petr Heinzel, [Ulrich Anzer](#), [Patricia R. Jibben](#)

2015

<http://arxiv.org/pdf/1506.06078v1.pdf>

**Unwinding motion of a twisted active-region filament**

X.L. [Yan](#), Z.K. Xue, J.H. Liu, D.F. Kong, C.L. Xu

ApJ, 797 52 2014

<http://arxiv.org/pdf/1410.1984v1.pdf>

**Magnetic field and radiative transfer modelling of a quiescent prominence\***

S. [Gunár](#)<sup>1</sup>, P. Schwartz<sup>3,2</sup>, J. Dudík<sup>4,5</sup>, B. Schmieder<sup>6</sup>, P. Heinzel<sup>2</sup> and J. Jurčák

A&A 567, A123 (2014)

**ON THE NATURE OF PROMINENCE EMISSION OBSERVED BY SDO/AIA**

S. [Parenti](#)<sup>1</sup>, B. Schmieder<sup>2</sup>, P. Heinzel<sup>3</sup>, and L. Golub

2012 ApJ 754 66

**June 25**

**SDO Observations of Solar Jets**

S. P. [Moschou](#), K. Tsinganos, A. Vourlidas, V. Archontis

Solar Physics, June 2013, Volume 284, Issue 2, pp 427-438

**June 26**

**The multi-thermal and multi-stranded nature of coronal rain**

P. [Antolin](#), [G. Vissers](#), [T. M. D. Pereira](#), [L. Rouppe van der Voort](#), [E. Scullion](#)

ApJ 2015

<http://arxiv.org/pdf/1504.04418v1.pdf>

**27 June**

**Power-law Distribution of Solar-Cycle Modulated Coronal Jets**

[Jiajia Liu](#), [Anchuan Song](#), [David B. Jess](#), [Jie Zhang](#), [Michail Mathioudakis](#), [Szabolcs Soós](#), [Francis P. Keenan](#), [Yuming Wang](#), [Robert Erdélyi](#)

ApJS 2023

<https://arxiv.org/pdf/2304.03466.pdf>

## **How Many Twists Do Solar Coronal Jets Release?**

Jiajia **Liu**, [Yuming Wang](#), [Robertus Erdélyi](#)

Frontiers in Astronomy and Space Sciences

2019

<https://arxiv.org/pdf/1905.09576.pdf>

### **27-28 June**

## **Penumbral micro-jets at high spatial and temporal resolution**

Luc Rouppe [van der Voort](#), [Ainar Drews](#)

A&A 2019

<https://arxiv.org/pdf/1905.02981.pdf>

### **28 June**

## **Microjets in the penumbra of a sunspot**

Ainar **Drews**, Luc Rouppe van der Voort

A&A 2017

<https://arxiv.org/pdf/1702.06078.pdf>

## **Effects of non-radial magnetic field on measuring magnetic helicity transport across solar photosphere**

Yongliang **Song**, Mei Zhang

ApJ 2015

<http://arxiv.org/pdf/1503.08563v1.pdf>

### **29 June**

## **Measurements of EUV Coronal Holes and Open Magnetic Flux**

**Lowder**, C., Qiu, J., Leamon, R. & Liu, Y.

E-print, Feb 2014; 2014 ApJ 783 142; File

<http://arxiv.org/pdf/1502.06038v1.pdf>

## **Observations of Dissipation of Slow Magneto-acoustic Waves in Polar Coronal Hole**

G. R. **Gupta**

A&A, 2014

<http://arxiv.org/pdf/1407.1017v1.pdf>

### **29 June – 5 July**

## **A Statistical Comparison between Photospheric Vector Magnetograms Obtained by SDO/HMI and Hinode/SP**

Alberto Sainz **Dalda**

2017 ApJ 851 111

<https://arxiv.org/pdf/1801.07374.pdf>

### **30 June**

## **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

## **SDO Observations of Solar Jets**

S. P. **Moschou**, K. Tsinganos, A. Vourlidas, V. Archontis

## July

### Evolution and Dynamics of Orphan Penumbrae in the Solar Photosphere: Analysis from Multi-instrument Observations

Francesca [Zuccarello](#)<sup>1</sup>, Salvo L. Guglielmino<sup>2,3</sup>, and Paolo Romano  
2014 ApJ 787 57

## 1 July

### 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>

**3 июля:** несколько лимбовых/прилиimbusовых эрупций с CMEs.

Самая заметная - в районе 09-10 UT в NE квадранте. Прицепляю картинку.

С учетом координат (<45 град от центра диска) и параметров от нее может прийти 6-7 июля слабое возмущение (может вызвать бурю с Dst ~ нескольких десятков нТл; форбуш ~1%) или только ударная волна.

## 4 July

### Dark dots on the photosphere and counting of the sunspots index

[Andrey G. Tlatov](#)

Solar Phys. 2022

<https://arxiv.org/pdf/2205.13142.pdf>

**5-6 July** Медленная эрупция NW волокна

## 6 July

### 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>

### 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

## 8 July

### Image Processing Methods for Coronal Hole Segmentation, Matching, and Map Classification

V. [Jatla](#), [M.S. Pattichis](#), [C.N. Arge](#)

IEEE Transactions on Image Processing 29 (2019): 1641-1653

<https://arxiv.org/pdf/2201.01380.pdf>

### **3He-rich solar energetic particles: Solar sources**

R. [Bucik](#)

Space Sci Rev 2020

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

**Review**

### The Open Flux Problem

J. A. [Linker](#), [R. M. Caplan](#), [C. Downs](#), [P Riley](#), [Z Mikic](#), [R. Lionello](#), [C. J. Henney](#), [C. N. Arge](#), [Y. Liu](#), [M. L. Derosa](#), [A. Yeates](#), [M. J. Owens](#)  
2017  
<https://arxiv.org/pdf/1708.02342.pdf>

### 9-20 July

#### SMARPs and SHARPs: Two Solar Cycles of Active Region Data

[Monica G. Bobra](#), [Paul J. Wright](#), [Xudong Sun](#), [Michael J. Turmon](#)  
ApJS 2021  
<https://arxiv.org/pdf/2108.07918.pdf>

### 10 July

#### Magnetohydrodynamic Seismology of Quiet Solar Active Regions

Sergey A. [Anfinogentov](#), [Valery M. Nakariakov](#)  
ApJ 2019  
<https://arxiv.org/pdf/1910.03809.pdf>

#### Polar Coronal Plumes as Tornado-like Jets

E. [Tavabi](#)<sup>1,2</sup>, [S. Koutchmy](#)<sup>3</sup>, and [L. Golub](#)  
2018 ApJ 866 35  
[sci-hub.tw/10.3847/1538-4357/aadc64](http://sci-hub.tw/10.3847/1538-4357/aadc64)

### 11 July the total solar eclipse

#### Validation scheme for solar coronal models -- constraints from multi-perspective observations in EUV and white-light

[A. Wagner](#), [E. Asvestari](#), [M. Temmer](#), [S.G. Heinemann](#), [J. Pomoell](#)  
A&A 2021  
<https://arxiv.org/pdf/2110.01893.pdf>

#### Validation of MHD Model Predictions of the Corona with LASCO-C2 Polarized Brightness Images

Philippe [Lamy](#), [Olivier Floyd](#), [Zoran Mikić](#), [Pete Riley](#)  
[Solar Physics](#) October 2019, 294:162  
<https://doi.org/10.1007/s11207-019-1549-9>

#### Analysis of a Failed Eclipse Plasma Ejection Using EUV Observations

E. [Tavabi](#), [S. Koutchmy](#), [C. Bazin](#)  
[Solar Phys.](#) 2018  
<https://arxiv.org/ftp/arxiv/papers/1801/1801.09222.pdf>

#### Detection of high frequency oscillations and damping from multi-slit spectroscopic observations of the corona

T. [Samanta](#), [J. Singh](#), [G. Sindhuja](#), [D. Banerjee](#)  
[Solar Physics](#) 2015  
<http://arxiv.org/pdf/1511.07160v1.pdf>

#### Prominence Cavity Regions Observed Using SWAP 174 Å Filtergrams and Simultaneous Eclipse Flash Spectra

C. [Bazin](#), [S. Koutchmy](#), [E. Tavabi](#)  
[Solar Physics](#), August 2013, Volume 286, Issue 1, pp 255-270

### 13 July

### **Hot plasma in a quiescent solar active region as measured by RHESSI, XRT, and AIA**

Shin-nosuke [Ishikawa](#), [Sam Krucker](#)

ApJ 2019

<https://arxiv.org/pdf/1903.11293.pdf>

### **Segmentation of Coronal Holes Using Active Contours Without Edges**

L. E. [Boucheron](#), M. Valluri, R. T. J. McAteer

Solar Phys. 2016

### **A Trio of Confined Flares in AR 11087**

Anand D. [Joshi](#)<sup>1</sup>, Terry G. Forbes<sup>2</sup>, Sung-Hong Park<sup>1,3</sup>, and Kyung-Suk Cho

2015 ApJ 798 97

### **13 July – 09 Aug**

### **Quantifying the Consistency and Characterizing the Confidence of Coronal Holes Detected by Active Contours without Edges (ACWE)**

Jeremy A. [Grajeda](#), [Laura E. Boucheron](#), [Michael S. Kirk](#), [Andrew Leisner](#), [C. Nick Arge](#)

2023

<https://arxiv.org/pdf/2308.05679.pdf>

### **Segmentation of Coronal Holes Using Active Contours Without Edges**

L. E. [Boucheron](#), M. Valluri, R. T. J. McAteer

Solar Phys. 2016

**14 July, 12:00 и 20:30** - две центральные эрупции; See Events

### **SMARPs and SHARPs: Two Solar Cycles of Active Region Data**

[Monica G. Bobra](#), [Paul J. Wright](#), [Xudong Sun](#), [Michael J. Turmon](#)

ApJS 2021

<https://arxiv.org/pdf/2108.07918.pdf>

### **15 July**

### **<sup>3</sup>He-rich solar energetic particles: Solar sources**

**Review**

R. [Bucik](#)

Space Sci Rev 2020

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

### **The FitCoPI Code: Iterative Determination of the 3D Density and Temperature Configuration in the Active-Region Corona**

Stephan [Barra](#)

[Solar Physics](#) July 2019, 294:101

<https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1482-y.pdf>

### **Prediction of Flares within 10 Days before They Occur on the Sun**

Nasibe [Alipour](#), Faranak Mohammadi, and Hossein Safari

2019 ApJS 243 20

[sci-hub.se/10.3847/1538-4365/ab289b](https://sci-hub.se/10.3847/1538-4365/ab289b)

### **16 July**

### **Magnetic Flux Cancellation as the Buildup and Trigger Mechanism for CME-Producing Eruptions in two Small Active Regions**

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

ApJ **2018**  
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**CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS.  
I. THE CASE FOR BLAST WAVES**

T. A. [Howard](#)<sup>1</sup> and V. J. Pizzo  
2016 ApJ 824 92 **File**

**18 July**, >03 – эрупция почти центрального E волокна, **304 A**

**19 July**

**A MICRO CORONAL MASS EJECTION ASSOCIATED BLOWOUT EXTREME-  
ULTRAVIOLET JET**

Junchao [Hong](#), Yunchun Jiang, Ruisheng Zheng, Jiayan Yang, Yi Bi and Bo Yang  
2011 ApJ 738 L20, **File**

**19-23 July**

**Analysis of a long-duration AR throughout five solar rotations: Magnetic properties and  
ejective events**

Francisco A. [Iglesias](#), [Hebe Cremades](#), [Luciano A. Merenda](#), [Cristina H. Mandrini](#), [Fernando M. Lopez](#), [Marcelo C. Lopez Fuentes](#), [Ignacio Ugarte-Urra](#)  
Advances in Space Research **2019**  
<https://arxiv.org/pdf/1911.01265.pdf>

**20 July**

**MHD Waves in the coronal holes**

**Review**

D. [Banerjee](#), S. Krishna Prasad  
Chapter in AGU Monograph **2015**  
<http://arxiv.org/pdf/1505.04475v1.pdf>

**20-30 July**

**The reversal of the Sun's magnetic field in cycle 24**

Alexander V. [Mordvinov](#), Alexei A. Pevtsov, Luca Bertello, Gordon J.D. Petrie  
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**July 24**

**SOLAR CORONA LOOP STUDIES WITH THE ATMOSPHERIC IMAGING ASSEMBLY. I.  
CROSS-SECTIONAL TEMPERATURE STRUCTURE**

Markus J. [Aschwanden](#) and Paul Boerner  
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**25 Jul**

**Solar Jet Hunter: a citizen science initiative to identify coronal jets in EUV data sets**

[S. Musset](#), [P. Jol](#), [R. Sankar](#), [S. Alnahari](#), [C. Kapsiak](#), [E. Ostlund](#), [K. Lasko](#), [L. Glesener](#), [L. Fortson](#), [G. D. Fleishman](#), [N. K. Panesar](#), [Y. Zhang](#), [M. Jeunon](#), [N. Hurlburt](#)  
A&A **2023**  
<https://arxiv.org/pdf/2309.14871.pdf>

**High-fidelity 3D Reconstruction of Solar Coronal Physics with the Updated CROBAR  
Method**

Joseph [Plowman](#) (1), [Daniel B. Seaton](#) (1), [Amir Caspi](#) (1), [J. Marcus Hughes](#) (1), [Matthew J. West](#) (1)  
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**Large-scale Globally Propagating Coronal Waves** **Review**

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

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

**On the Nature and Genesis of EUV Waves: A Synthesis of Observations from SOHO, STEREO, SDO, and Hinode** **Review**

Spiros Patsourakos 1 \_ Angelos Vourlidas

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**First Evidence of Coexisting EIT Wave and Coronal Moreton Wave from SDO/AIA Observations**

P. F. Chen and Y. Wu

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**July 30 – Aug 1**

**INTERACTIONS BETWEEN CORONAL MASS EJECTIONS VIEWED IN COORDINATED IMAGING AND IN SITU OBSERVATIONS**

Ying D. Liu<sup>1,2</sup>, Janet G. Luhmann<sup>1</sup>, Christian Möstl<sup>1,3,4</sup>, Juan C. Martinez-Oliveros<sup>1</sup>, Stuart D. Bale<sup>1</sup>, Robert P. Lin<sup>1,5</sup>, Richard A. Harrison<sup>6</sup>, Manuela Temmer<sup>3</sup>, David F. Webb<sup>7</sup> and Dusan Odstrcil  
2012 ApJ 746 L15

**July 30- Aug 23**

**Modeling solar energetic particle events using ENLIL heliosphere simulations**

J. G. Luhmann, M. L. Mays, D. Odstrcil, Yan Li, H. Bain, C. O. Lee, A. B. Galvin, R. A. Mewaldt, C. M. S. Cohen, R. A. Leske, et al

Space Weather Volume 15, Issue 7 July 2017 Pages 934–954

<http://sci-hub.cc/10.1002/2017SW001617>

**31 July**

**Using SDO's AIA to investigate energy transport from a flare's energy release site to the chromosphere\***

J. W. Brosius<sup>1</sup> and G. D. Holman

A&A 540, A24 (2012)

**August**

**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.С.3

Косм. Исслед. Том: 57Номер: 1 Год: 2019 Страницы: 21-31

## Shock Connectivity in the August 2010 and July 2012 Solar Energetic Particle Events Inferred from Observations and ENLIL Modeling

H. M. [Bain](#), M. L. Mays, J. G. Luhmann, Y. Li, L. K. Jian, and D. Odstrcil  
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**Aug 1**

### 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>

### A Fast, Simple, Robust Algorithm for Coronal Temperature Reconstruction

[Joseph Plowman](#), [Amir Caspi](#)

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<https://arxiv.org/pdf/2006.06828.pdf>

### Extracting the Temperature of a Coronal Loop in the Solar Active Region 11092

Narges [Fathalian](#)

Iranian Journal of Astronomy and Astrophysics Vol. 4, No. 1, 2017 2019

<https://arxiv.org/pdf/1908.11369.pdf>

### Growth Rates of the Upper-Hybrid Waves for Power-Law and Kappa Distributions with a Loss-Cone Anisotropy

Leonid V. [Yasnov](#), Jan Benáček, Marian Karlický

Solar Phys. 294, 29 2019

<https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1415-9.pdf>

### Plasma diagnostics of coronal dimming events

Kamalam [Vanninathan](#), [Astrid M. Veronig](#), [Karin Dissauer](#), [Manuela Temmer](#)

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<https://arxiv.org/pdf/1802.06152.pdf>

### Numerical simulations of ICME-ICME interactions

Tatiana [Niembro](#), [Alejandro Lara](#), [Ricardo F. González](#), [J. Cantó](#)

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<https://arxiv.org/pdf/1801.03136.pdf>

### Oscillation Maps in the Broadband Radio Spectrum of the 1 August 2010 Event

M. [Karlicky](#), J. Rybak

Solar Phys. 2016

<https://arxiv.org/pdf/1611.02074v1.pdf>

### CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. I. THE CASE FOR BLAST WAVES

T. A. [Howard](#)<sup>1</sup> and V. J. Pizzo

2016 ApJ 824 92 File

### AN ANALYTICAL MODEL OF INTERPLANETARY CORONAL MASS EJECTION INTERACTIONS

T. [Niembro](#)<sup>1,3</sup>, J. Cantó<sup>2</sup>, A. Lara<sup>3</sup>, and R. F. González

2015 ApJ 811 69

**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>

**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

**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

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

B. M. [Bein](#)<sup>1</sup>, M. Temmer<sup>1</sup>, A. Vourlidas<sup>2</sup>, A. M. Veronig<sup>1</sup>, and D. Utz

**2013** ApJ 768 31; File

**Aug 1-2**

**Concept of the Solar Ring Mission: Overview**

Yuming [Wang](#), [Haisheng Ji](#), [Yamin Wang](#), [Lidong Xia](#), [Chenglong Shen](#), [Jingnan Guo](#), [Quanhao Zhang](#), [Zhenghua Huang](#), [Kai Liu](#), [Xiaolei Li](#), [Rui Liu](#), [Jingxiu Wang](#), [Shui Wang](#)

Science China Technological Sciences, **2020**

<https://arxiv.org/pdf/2003.12728.pdf>

**2010 AUGUST 1-2 SYMPATHETIC ERUPTIONS. I. MAGNETIC TOPOLOGY OF THE SOURCE-SURFACE BACKGROUND FIELD**

V. S. Titov<sup>1</sup>, Z. Mikic<sup>1</sup>, T. Török<sup>1</sup>, J. A. Linker<sup>1</sup>, and O. Panasenco

**2012** ApJ 759 70

**Long-range magnetic couplings between solar flares and coronal mass ejections observed by SDO and STEREO**

C.J. [Schrijver](#) and A.M. Title

E-print, 18 Jan **2011**, File; JGR, 116, A04108, doi:10.1029/2010JA016224, **2011**

**Aug 1-4**

**Global three-dimensional simulation of the interplanetary evolution of the observed geoeffective coronal mass ejection during the epoch 1-4 August 2010**

[Wu](#), Chin-Chun; Dryer, Murray; Wu, S. T.; Wood, Brian E.; Fry, Craig D.; Liou, Kan; Plunkett, Simon J. Geophys. Res., Vol. 116, No. A12, A12103, **2011**

**1 August**

[http://science.nasa.gov/science-news/science-at-nasa/2010/13dec\\_globaleruption/](http://science.nasa.gov/science-news/science-at-nasa/2010/13dec_globaleruption/)

COMPLEX ERUPTION ON THE SUN: On August 1st around 0855 UT, Earth orbiting satellites detected a C3-class solar flare. The origin of the blast was sunspot 1092. At about the

same time, an enormous magnetic filament stretching across the sun's northern hemisphere erupted. NASA's Solar Dynamics Observatory recorded the action:  
C3.2 long duration event peaking at 08:26 UTC. This event was associated with a moderate type IV radio sweep and a full halo CME.

[Click to launch a movie \(EUV 304 Å\)](#)

The timing of these events suggest they are connected, and a review of SDO movies strengthens that conclusion. Despite the ~400,000 km distance between them, the sunspot and filament seem to erupt together; they are probably connected by long-range magnetic fields. In this movie (171 Å), a shadowy shock wave (a "solar tsunami") can be seen emerging from the flare site and rippling across the northern hemisphere into the filament's eruption zone. That may have helped propel the filament into space.

In short, we have just witnessed a complex global eruption involving almost the entire Earth-facing side of the sun.

A coronal mass ejection (CME) produced by the event is heading directly for Earth: SOHO movie. High-latitude sky watchers should be alert for auroras when it arrives on or about August 3rd.

A full halo CME associated with a C3 long duration event in region 11092 could reach Earth sometime between the afternoon on August 3 and noon on August 4.

Повторная эрупция северного-центрального волокна в 19-20 UT; см. данные **MLSO**.  
**See Events**

### **Письмо Белову от 3 авг, 10:30 по Москве**

1 августа, 08-10 UT: комплексная эрупция из АО 1092 с LDE вспышкой C3.2 (N20E36), приличным CME типа гало, заметным радиоизлучением и последующая эрупция крупного северного/центрального волокна. Прицепляю картинку.

По EIT подходящие изображения только в 01:25 и 13:48; в промежутке изображений на 195 А нет.

Поэтому оценки надо рассматривать как весьма приблизительные.

По двум указанным изображениям магнитный параметр 111,7 ( $10^{20}$ ) Мкс (примерно как 03.04.2010).

По нему ожидаемые величины примерно следующие:

транзитное время ~58 ч, т.е. приход возмущения (УВ) к Земле 3 августа, примерно в 19 UT;

форбуш до 2,5-3 %, Dst (при благоприятном Vz) от нескольких десятков до 100 нТл.

!!! Из-за большого интервала между имеющимися изображениями ожидаемые величины Форбуша

и Dst могут оказаться несколько переоцененными.

### **SITCoM: SiRGraF Integrated Tool for Coronal dynamics**

[Purvi Udhvani](#), [Arpit Kumar Shrivastav](#), [Ritesh Patel](#)

Frontiers in Astronomy and Space Sciences **2023**

<https://arxiv.org/pdf/2308.04647.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>

### **Evolution of Solar Eruptive Events: Investigating the Relationships among Magnetic Reconnection, Flare Energy Release, and Coronal Mass Ejections**

Juliana T. **Vievering**<sup>1</sup>, Angelos Vourlidas<sup>1</sup>, Chunming Zhu<sup>2</sup>, Jiong Qiu<sup>2</sup>, and Lindsay Glesener<sup>3</sup>  
2023 ApJ 946 81

<https://iopscience.iop.org/article/10.3847/1538-4357/acbe3d/pdf>

### **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>

### **A Simple Radial Gradient Filter for Batch-Processing of Coronagraph Images**

[Ritesh Patel](#), [Satabdwa Majumdar](#), [Vaibhav Pant](#), [Dipankar Banerjee](#)

Solar Phys. 2022

<https://arxiv.org/pdf/2201.13043.pdf>

### **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>

### **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>

### **High resolution observations with Artemis--JLS, (II) Type IV associated intermediate drift bursts**

C. **Bouratzis**, [A. Hillaris](#), [C.E. Alissandrakis](#), [P. Preka-Papadema](#), [X. Moussas](#), [C. Caroubalos](#), [P. Tsitsipis](#), [A. Kontogeorgos](#)

A&A 2019

<https://arxiv.org/pdf/1904.02262.pdf>

### **АЛЬТЕРНАТИВНЫЕ МОДЕЛИ ЗЕБРА-СТРУКТУРЫ В СОЛНЕЧНОМ РАДИОИЗЛУЧЕНИИ**

Чернов Г.П., Фомичев В.В.

Астрономия-2018 Том 2 Солнечно-земная физика – современное состояние и перспективы С.266

<http://www.izmiran.ru/library/eaas2018/eaas-2018-2.pdf>

### **Double plasma-resonance surfaces in flare loops and radio zebra emission**

M. **Karlický**<sup>1</sup> and L. Yasnov<sup>2,3</sup>

A&A 618, A60 (2018)

[sci-hub.tw/10.1051/0004-6361/201833516](https://sci-hub.tw/10.1051/0004-6361/201833516)

### **Determination of Plasma Parameters in Radio Sources of Solar Zebra-patterns Based on Relations between the Zebra-stripe Frequencies and Gyro-harmonic Numbers**

Marian **Karlický**<sup>1</sup> and Leonid V. Yasnov<sup>2,3</sup>

2018 ApJ 867 28

[sci-hub.tw/10.3847/1538-4357/aae1f8](https://sci-hub.tw/10.3847/1538-4357/aae1f8)

### **МОДЕЛЬ ЗЕБРА-СТРУКТУРЫ В СОЛНЕЧНОМ РАДИОИЗЛУЧЕНИИ**

**ЧЕРНОВ** Г. П.1, **ФОМИЧЕВ** В. В.1, **СЫЧ** Р. А.2  
Геомаг. и Аэрон. Том: 58Номер: 3 Год: **2018** Страницы: 411-422

**The application of heliospheric imaging to space weather operations: Lessons learned from published studies** **Review**

Richard A. **Harrison**, Jackie A. Davies, Doug Biesecker, Mark Gibbs  
Space Weather Volume 15, Issue 8 August **2017** Pages 985–1003  
<http://onlinelibrary.wiley.com/doi/10.1002/2017SW001633/full>

**A Model of Zebra Patterns in Solar Radio Emission**

G. P. **Chernov**, [V. V. Fomichev](#), [R. A. Sych](#)  
Geomagnetism and Aeronomy, **2017**, Vol. 57, No. 6, pp. 738\_751  
<https://arxiv.org/ftp/arxiv/papers/1806/1806.08532.pdf>

**Comparison of alternative zebra-structure models in solar radio emission**

G.P. **Chernov**, V.V. Fomichev, R.A. Sych  
Oral report at the conference: XII Solar System Plasma Conference, February 6, 2017, Space Research Institute of RAS, Moscow, Russia **2017**  
<https://arxiv.org/ftp/arxiv/papers/1704/1704.02528.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. **Howard**<sup>1</sup> and V. J. Pizzo  
**2016** ApJ 824 92  
<http://sci-hub.cc/doi/10.3847/0004-637X/824/2/92>

**Last news on zebra pattern**

Gennady **Chernov**  
Solar Phys. **2016**  
<http://arxiv.org/ftp/arxiv/papers/1512/1512.06311.pdf>

**Quasi-periodic Fast-mode Magnetosonic Wave Trains Within Coronal Waveguides Associated with Flares and CMEs**

Wei **Liu**, Leon Ofman, Brittany Broder, Marian Karlicky, and Cooper Downs  
Proceedings of the 14th International Solar Wind Conference, **2015**  
[http://sun.stanford.edu/~weiliu/research/publications/2016/2016AIP\\_WeiLiu\\_QFPs\\_SolWind14.pdf](http://sun.stanford.edu/~weiliu/research/publications/2016/2016AIP_WeiLiu_QFPs_SolWind14.pdf)

**Automated Detection of Solar Eruptions**

Neal **Hurlburt**  
Journal of SpaceWeather and Space Climate, **2015**  
<http://arxiv.org/pdf/1504.03395v1.pdf>

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Yin **Zhang**, Baolin Tan, Marian Karlický, Hana Mészárosóvá, Jing Huang, Chengming Tan, Paulo Simões  
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<http://arxiv.org/pdf/1411.4766v1.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>

**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>

**ПРОГНОЗ ИНТЕНСИВНОСТИ ГЕОМАГНИТНЫХ БУРЬ, ВЫЗВАННЫХ МАГНИТНЫМИ ОБЛАКАМИ СОЛНЕЧНОГО ВЕТРА С УЧЕТОМ СЕЗОНА ГОДА И ИХ НАЧАЛЬНОЙ ОРИЕНТАЦИИ**

Н.А. **Бархатов**, Е. А. Ревунова, А.Б. Виноградов

ИКИ-2014 Сессия: Солнечный ветер, гелиосфера и солнечно-земные связи

<http://plasma2014.cosmos.ru/presentations> File: презентация

**Simulated (STEREO) Views of the Solar Wind Disturbances Following the Coronal Mass Ejections of 1 August 2010**

Y. **Zhang** · A.M. Du · X.S. Feng · W. Sun · Y.D. Liu · C.D. Fry · C.S. Deehr · M. Dryer · B. Zieger · Y.Q. Xie

Solar Phys (**2014**) 289:319–338

[http://sprg.ssl.berkeley.edu/~liuxying/pubs/2014\\_sp\\_zhang.pdf](http://sprg.ssl.berkeley.edu/~liuxying/pubs/2014_sp_zhang.pdf)

**Kinematic Properties of Slow ICMEs and an Interpretation of a Modified Drag Equation for Fast and Moderate ICMEs**

T. **Iju**, M. Tokumaru, K. Fujiki

Solar Physics, June **2014**, Volume 289, Issue 6, pp 2157-2175

<http://arxiv.org/pdf/1401.1724v1.pdf>

**Frequency variations of solar radio zebras and their power-law spectra**

M. **Karlický**

A&A 561, A34 (**2014**)

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

B. M. **Bein**<sup>1</sup>, M. Temmer<sup>1</sup>, A. Vourlidas<sup>2</sup>, A. M. Veronig<sup>1</sup>, and D. Utz

**2013** ApJ 768 31; File

**ULTRAVIOLET AND EXTREME-ULTRAVIOLET EMISSIONS AT THE FLARE FOOTPOINTS OBSERVED BY ATMOSPHERE IMAGING ASSEMBLY**

Jiong **Qiu**, Zoe Sturrock, Dana W. Longcope, James A. Klimchuk, and Wen-Juan Liu

E-prunt, Aug **2013**; **2013** ApJ 774 14

<http://arxiv.org/pdf/1305.6899v1.pdf>

**Presence of solar filament plasma detected in interplanetary coronal mass ejections by in situ spacecraft**

Rahul **Sharma**<sup>1,\*</sup> and Nandita Srivastava<sup>2</sup>

*J. Space Weather Space Clim.* 2 (**2012**) A10

<http://www.swsc-journal.org/articles/swsc/pdf/2012/01/swsc120018.pdf>

**Multi-point Shock and Flux Rope Analysis of Multiple Interplanetary Coronal Mass Ejections around 2010 August 1 in the Inner Heliosphere**

Möstl, C., Farrugia, C. J., Kilpua, E. K. J., et al. 2012, ApJ, 758, 10

<http://arxiv.org/pdf/1209.2866v1.pdf>

**CONTRACTING AND ERUPTING COMPONENTS OF SIGMOIDAL ACTIVE REGIONS**

Rui Liu<sup>1,2</sup>, Chang Liu<sup>2</sup>, Tibor Török<sup>3</sup>, Yuming Wang<sup>1</sup>, and Haimin Wang

2012 ApJ 757 150

**HEATING OF FLARE LOOPS WITH OBSERVATIONALLY CONSTRAINED HEATING FUNCTIONS**

Jiong Qiu, Wen-Juan Liu, and Dana W. Longcope

2012 ApJ 752 124

**AN ANALYSIS OF THE ORIGIN AND PROPAGATION OF THE MULTIPLE CORONAL MASS EJECTIONS OF 2010 AUGUST 1**

R. A. Harrison<sup>1</sup>, J. A. Davies<sup>1</sup>, C. Möstl<sup>2,3,4</sup>, Y. Liu<sup>4,5</sup>, M. Temmer<sup>2,3</sup>, M. M. Bisi<sup>6,7</sup>, J. P.

Eastwood<sup>8</sup>, C. A. de Koning<sup>9</sup>, N. Nitta<sup>10</sup>, T. Rollett<sup>2,3</sup>, C. J. Farrugia<sup>11</sup>, R. J. Forsyth<sup>8</sup>, B. V. Jackson<sup>7</sup>,

E. A. Jensen<sup>12</sup>, E. K. J. Kilpua<sup>13</sup>, D. Odstreil<sup>14</sup>, and D. F. Webb

2012 ApJ 750 45, File

**CHARACTERISTICS OF KINEMATICS OF A CORONAL MASS EJECTION DURING THE 2010 AUGUST 1 CME–CME INTERACTION EVENT**

Manuela Temmer<sup>1</sup>, Bojan Vršnak<sup>2</sup>, Tanja Rollett<sup>1</sup>, Bianca Bein<sup>1</sup>, Curt A. de Koning<sup>3</sup>, Ying Liu<sup>4,5</sup>, Eckhard Bosman<sup>6</sup>, Jackie A. Davies<sup>7</sup>, Christian Möstl<sup>1,4,6</sup>, Tomislav Žic<sup>2</sup>, Astrid M. Veronig<sup>1</sup>, Volker Bothmer<sup>7</sup>, Richard Harrison<sup>8</sup>, Nariaki Nitta<sup>9</sup>, Mario Bisi<sup>10,11</sup>, Olga Flor<sup>1</sup>, Jonathan Eastwood<sup>12</sup>, Dusan Odstreil<sup>13</sup> and Robert Forsyth

2012 ApJ 749 57, File

**THE 2010 AUGUST 1 TYPE II BURST: A CME-CME INTERACTION AND ITS RADIO AND WHITE-LIGHT MANIFESTATIONS**

Juan Carlos Martínez Oliveros<sup>1</sup>, Claire L. Raftery<sup>1</sup>, Hazel M. Bain<sup>1</sup>, Ying Liu<sup>1</sup>, Vratislav Krupar<sup>2,3</sup>, Stuart Bale<sup>1,4</sup> and Säm Krucker

2012 ApJ 748 66, File

**MODELING SUPER-FAST MAGNETOSONIC WAVES OBSERVED BY SDO IN ACTIVE REGION FUNNELS**

L. Ofman<sup>1,2,5</sup>, W. Liu<sup>3,4</sup>, A. Title<sup>3</sup> and M. Aschwanden

2011 ApJ 740 L33

**A MODEL FOR MAGNETICALLY COUPLED SYMPATHETIC ERUPTIONS**

T. Török<sup>1</sup>, O. Panasenco<sup>2</sup>, V. S. Titov<sup>1</sup>, Z. Mikić<sup>1</sup>, K. K. Reeves<sup>3</sup>, M. Velli<sup>4</sup>, J. A. Linker<sup>1</sup> and G. De Toma

2011 ApJ 739 L63, File

**THREE-DIMENSIONAL RECONSTRUCTION OF AN ERUPTING FILAMENT WITH SOLAR DYNAMICS OBSERVATORY AND STEREO OBSERVATIONS**

Ting Li, Jun Zhang, Yuzong Zhang and Shuhong Yang

2011 ApJ 739 43, File

**ACCELERATION OF CORONAL MASS EJECTIONS FROM THREE-DIMENSIONAL RECONSTRUCTION OF STEREO IMAGES**

Anand D. Joshi and Nandita Srivastava

2011 ApJ 739 8, File

## **Three-Dimensional Reconstruction of an Erupting Filament with SDO and STEREO Observations**

Ting [Li](#), Jun Zhang, Yuzong Zhang, Shuhong Yang

E-print, July **2011**, [File](#);

## **KINEMATICS OF TWO ERUPTIVE PROMINENCES OBSERVED BY EUVI/STEREO**

Anand D. [Joshi](#) and Nandita Srivastava

Astrophysical Journal, 730:104 (11pp), **2011** April, [File](#)

## **Sigmoid-to-Flux-Rope Transition Leading to A Loop-Like Coronal Mass Ejection**

Rui [Liu](#)<sup>1</sup>, Chang Liu<sup>1</sup>, Shuo Wang<sup>1</sup>, Na Deng, and Haimin Wang

E-print, Nov **2010**, ApJL, 725:L84–L90, **2010**; [File](#)

## **1-2 Aug**

### **Concept of the Solar Ring Mission: An overview**

YuMing [Wang](#), [HaiSheng Ji](#), [YaMin Wang](#), [LiDong Xia](#), [ChengLong Shen](#), et al.

[Science China Technological Sciences](#) volume 63, pages1699–1713 (**2020**)

<https://link.springer.com/content/pdf/10.1007/s11431-020-1603-2.pdf>

<https://doi.org/10.1007/s11431-020-1603-2>

### **he 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>

### **2010 August 1-2 sympathetic eruptions: II. Magnetic topology of the MHD background field**

Viacheslav S. [Titov](#), [Zoran Mikic](#), [Tibor Torok](#), [Jon A. Linker](#), [Olga Panasenco](#)

ApJ **2017**

<https://arxiv.org/pdf/1707.07773.pdf>

### **2010 AUGUST 1-2 SYMPATHETIC ERUPTIONS. I. MAGNETIC TOPOLOGY OF THE SOURCE-SURFACE BACKGROUND FIELD**

V. S. [Titov](#)<sup>1</sup>, Z. Mikic<sup>1</sup>, T. Török<sup>1</sup>, J. A. Linker<sup>1</sup>, and O. Panasenco

**2012** ApJ 759 70

## **2 Aug**

### **Linking the Sun to the Heliosphere Using Composition Data and Modelling. A Test Case with a Coronal Jet**

Susanna [Parenti](#), [Iulia Chifu](#), [Giulio Del Zanna](#), [Justin Edmondson](#), [Alessandra Giunta](#), [Viggo H.](#)

[Hansteen](#), [Aleida Higginson](#), [J. Martin Laming](#), [Susan T. Lepri](#), [Benjamin J. Lynch](#), [Yeimy J.](#)

[Rivera](#), [Rudolf von Steiger](#), [Thomas Wiegmann](#), [Robert F. Wimmer-Schweingruber](#), [Natalia Zambrana](#)

[Prado](#), [Gabriel Pelouze](#)

Space Science Reviews **2021**

<https://arxiv.org/pdf/2110.06111.pdf>

### **Statistical study of hard X-ray emitting electrons associated with flare-related coronal jets**

Sophie [Musset](#), [Mariana Jeunon](#), [Lindsay Glesener](#)

**2019**

<https://arxiv.org/pdf/1903.10414.pdf>

### **Multiwavelength study of 20 jets that emanate from the periphery of active regions**

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

CESRA highlights #959, Nov.2016  
<http://www.astro.gla.ac.uk/users/eduard/cesra/?p=959>

**Multiwavelength study of twenty jets emanating from the periphery of active regions**  
Sargam M. **Mulay**, Durgesh Tripathi, Giulio Del Zanna, Helen Mason  
A&A 589, A79 2016

**Active Regions with Superpenumbral Whirls or Sunspots Like Pinwheels**  
Rudi **Komm**  
HMI Science Nuggets #23, 2014  
<http://hmi.stanford.edu/hminuggets/?p=884>

**2-5 Aug**

**Linking the Sun to the Heliosphere Using Composition Data and Modelling. A Test Case with a Coronal Jet**

Susanna **Parenti**, [Julia Chifu](#), [Giulio Del Zanna](#), [Justin Edmondson](#), [Alessandra Giunta](#), [Viggo H. Hansteen](#), [Aleida Higginson](#), [J. Martin Laming](#), [Susan T. Lepri](#), [Benjamin J. Lynch](#), [Yeimy J. Rivera](#), [Rudolf von Steiger](#), [Thomas Wiegmann](#), [Robert F. Wimmer-Schweingruber](#), [Natalia Zambrana Prado](#), [Gabriel Pelouze](#)  
Space Science Reviews 2021  
<https://arxiv.org/pdf/2110.06111.pdf>

**2-28 Aug**

**Analysis of a long-duration AR throughout five solar rotations: Magnetic properties and ejective events**

Francisco A. **Iglesias**, [Hebe Cremades](#), [Luciano A. Merenda](#), [Cristina H. Mandrini](#), [Fernando M. Lopez](#), [Marcelo C. Lopez Fuentes](#), [Ignacio Ugarte-Urra](#)  
Advances in Space Research 2019  
<https://arxiv.org/pdf/1911.01265.pdf>

**3 Aug**

[http://solar.gmu.edu/heliophysics/index.php/The\\_ISEST\\_Event\\_List](http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List)

**ICME Evolution in the Inner Heliosphere**

**Invited Review**

J. G. **Luhmann**, [N. Gopalswamy](#), [L. K. Jian](#) & [N. Lugaz](#)  
[Solar Physics](#) volume 295, Article number: 61 (2020) **File**  
<https://link.springer.com/content/pdf/10.1007%2Fs11207-020-01624-0.pdf>

**Observations of solar X-ray and EUV jets and their related phenomena**

**Review**

Davina **Innes**, Radoslav Bucik, Li-Jia Guo, Nariaka Nitte  
Astronomische Nachrichten 2016  
<http://arxiv.org/pdf/1603.03258v1.pdf>

**Tracing the Chromospheric and Coronal Magnetic Field with AIA, IRIS, IBIS, and ROSA Data**

M.J. **Aschwanden**, K. Reardon, D. Jess  
2016  
<http://arxiv.org/pdf/1602.02119v1.pdf>

**Observations of multiple blobs in homologous solar coronal jets in closed loops**

Q. M. **Zhang**, H. S. Ji, Y. N. Su  
Solar Phys. 2016  
<http://arxiv.org/pdf/1601.04390v1.pdf>

**Observations of a pulse-driven cool polar jet by SDO/AIA**

A. K. [Srivastava](#)<sup>1,2</sup> and K. Murawsk  
A&A 534, A62 (2011)

### **NONPOTENTIALITY OF CHROMOSPHERIC FIBRILS IN NOAA ACTIVE REGIONS 11092 AND 9661**

Ju [Jing](#)<sup>1</sup>, Yuan Yuan<sup>1</sup>, Kevin Reardon<sup>2,3</sup>, Thomas Wiegelmann<sup>4</sup>, Yan Xu<sup>1</sup> and Haimin Wang  
2011 ApJ 739 67

### **EUV jets, type III radio bursts and sunspot waves investigated using SDO/AIA observations**

D. E. [Innes](#), R. H. Cameron and S. K. Solanki  
E-print, June 2011; A&A 531, L13 (2011) , [File](#)

### **ATMOSPHERIC IMAGING ASSEMBLY MULTITHERMAL LOOP ANALYSIS: FIRST RESULTS**

**SDO**

J. T. [Schmelz](#)<sup>1,2</sup>, J. A. Kimble<sup>1</sup>, B. S. Jenkins<sup>1</sup>, B. T. Worley<sup>1</sup>, D. J. Anderson<sup>1</sup>, S. Pathak<sup>1</sup>, and S. H. Saar<sup>2</sup>  
Astrophysical Journal Letters, 725:L34–L37, 2010

**4 Aug**

### **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](https://dl.dropboxusercontent.com/u/96898685/ms_fr_v4.pdf)

**5-6 Aug**

### **Damping and power spectra of quasi-periodic intensity disturbances above a solar polar coronal hole**

Fangran [Jiao](#), Lidong Xia, Zhenghua Huang, Bo Li, Hui Fu, Ding Yuan, Kalugodu Chandrashekhar  
Research in Astron. Astrophys. 2016  
<http://arxiv.org/pdf/1602.04883v1.pdf>

### **Sources of quasi-periodic propagating disturbances above a solar polar coronal hole**

Fang-Ran [Jiao](#), [Li-Dong Xia](#), [Bo Li](#), [Zheng-Hua Huang](#), [Xing Li](#), [Kalugodu Chandrashekhar](#), [Chao-Zhou Mou](#), [Hui Fu](#)  
2015  
<http://arxiv.org/pdf/1507.08440v1.pdf>

**6 Aug**

### **First direct measurements of transverse waves in solar polar plumes using SDO/AIA**

Jonathan [Thurgood](#), Richard Morton, James McLaughlin  
UKSP Nugget #57, Apr 2015  
<http://www.uksolphys.org/?p=9993>

### **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>

**Aug 06-07**

### **Quantifying the Consistency and Characterizing the Confidence of Coronal Holes Detected by Active Contours without Edges (ACWE)**

Jeremy A. [Grajeda](#), [Laura E. Boucheron](#), [Michael S. Kirk](#), [Andrew Leisner](#), [C. Nick Arge](#)  
2023  
<https://arxiv.org/pdf/2308.05679.pdf>

**7 Aug** - 18:51 – M1.0 вспышка, **пересвет** на STEREO-B,  $B=17*2/283=0,12$

**7 Aug:** LDE Flare: **M1.0/2F** at 18:24 UTC. This flare was associated with a moderate type II radio sweep and **a large and wide CME**. An impressive CME was observed in STEREO-B images after the M1 flare in region 11093. The CME is highly likely Earth directed.

**На EIT картинки только около 13 UT.**

**Хорошие данные на STEREO-B и SDO:** корональная волна по всему диску, димминги и т.д.

### **Письмо Белову от 9 авг, 11 по Москве**

На EIT картинки 7-ого только около 13 UT и затем 8-ого, около 01 UT. **Так теперь будет всегда, поскольку в такой режим наблюдений перешел SOHO/EIT. Для такой оперативной работы надо вслед за американцами переходить на SDO, но это отдельная большая задача.**

Прицепляю картинку по двум кадрам EIT. Поскольку это только по двум кадрам с интервалом 12 ч, и картинка, и оценки

**весьма неточные.** К тому же, по какой-то причине в магнитный параметр почти не вошла аркада. Общее ВПЕЧАТЛЕНИЕ такое, что это была эрупция такого же порядка, как и 1 августа.

Следовательно, можно **ОЧЕНЬ УСЛОВНО** принять, что транзитное время ~60 ч, т.е. приход возмущения (УВ) к Земле

10 августа, примерно в 06 UT; форбуш до 2,5-3 %, Dst (при благоприятном Bz) от нескольких десятков до 100 нТл.

### **Kinematical evolution of large-scale EUV waves in the solar corona**

G. Mann, A. Warmuth and H. Önel

A&A 675, A129 (2023)

<https://www.aanda.org/articles/aa/pdf/2023/07/aa46378-23.pdf>

### **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>

### **Magnetic Flux Ropes in the Solar Corona: Structure and Evolution toward Eruption Review**

Rui Liu

Research in Astron. Astrophys (RAA) 2020

<https://arxiv.org/pdf/2007.11363.pdf> File

### **Quasiperiodic Velocity Fluctuations in Eruptive Prominences Observed by AIA/SDO**

Tsvetan Tsvetkov and Nikola Petrov

2020 ApJ 893 40

[sci-hub.si/10.3847/1538-4357/ab7db6](https://sci-hub.si/10.3847/1538-4357/ab7db6)

### **Global Energetics of Solar Flares. IX. Refined Magnetic Modeling**

Markus J. Aschwanden

ApJ 2019

[http://www.lmsal.com/~aschwand/eprints/2019\\_global9.pdf](http://www.lmsal.com/~aschwand/eprints/2019_global9.pdf)

### **The SDO/EVE Solar Irradiance Coronal Dimming Index Catalog. I. Methods and Algorithms**

James Paul Mason<sup>1,2</sup>, Raphael Attie<sup>1</sup>, Charles N. Arge<sup>1</sup>, Barbara Thompson<sup>1</sup>, and Thomas N. Woods<sup>2</sup>  
2019 ApJS 244 13

<https://iopscience.iop.org/article/10.3847/1538-4365/ab380e/pdf>

**Magnetic Helicity Estimations in Models and Observations of the Solar Magnetic Field.  
Part III: Twist Number Method**

Y. **Guo**, E. Pariat , G. Valori , S. Anfinogenov , F. Chen , M. Georgoulis , Y. Liu , K. Moraitis , J. K. Thalmann , S. Yang

A&A        2017

[http://www.issibern.ch/teams/magnetic/helicity/guoyang\\_20170326.pdf](http://www.issibern.ch/teams/magnetic/helicity/guoyang_20170326.pdf)

**Mass Loss Evolution in the EUV Low Corona from SDO/AIA Data**

Fernando M. **López**, Hebe Cremades, Federico A. Nuevo, [Laura A. Balmaceda](#), [Alberto A. Vásquez](#)

Solar Phys.        2016

<https://arxiv.org/pdf/1611.00849v1.pdf>

**MULTI-SPACECRAFT OBSERVATIONS AND TRANSPORT MODELING OF ENERGETIC ELECTRONS FOR A SERIES OF SOLAR PARTICLE EVENTS IN AUGUST 2010**

W. **Dröge**<sup>1</sup>, Y. Y. Kartavykh<sup>1,2</sup>, N. Dresing<sup>3</sup>, and A. Klassen

2016 ApJ 826 134

**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>

**CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS.  
I. THE CASE FOR BLAST WAVES**

T. A. **Howard**<sup>1</sup> and V. J. Pizzo

2016 ApJ 824 92    File

**The Relation between Solar Eruption Topologies and Observed Flare Features II:  
Dynamical Evolution**

A. **Savcheva**, E. Pariat, S. McKillop, P. McCauley, E. Hanson, Y. Su, & E. DeLuca

2015

[http://www.pergamentum.com/eprint/savcheva\\_etal\\_ribbonsA\\_II.pdf](http://www.pergamentum.com/eprint/savcheva_etal_ribbonsA_II.pdf)

**The Relation between Solar Eruption Topologies and Observed Flare Features I: Flare Ribbons**

A. **Savcheva**, E. Pariat, S. McKillop, [P. McCauley](#), [E. Hanson](#), [Y. Su](#), [E. Werner](#), [E. E. DeLuca](#)

2015

<http://arxiv.org/pdf/1506.03452v1.pdf>

**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>

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

Janusz **Nicewicz**, , Grzegorz Michalek

Advances in Space Research, 2014

**Mechanisms and Observations of Coronal Dimming for the 2010 August 7 Event**

J. P. **Mason**, T. N. Woods, A. Caspi, B. J. Thompson, R. A. Hock

2014

<http://arxiv.org/pdf/1404.1364v1.pdf>

**Statistical survey of widely spread out solar electron events observed with STEREO and ACE with special attention to anisotropies**

N. **Dresing**, R. Gómez-Herrero, B. Heber, A. Klassen, O. Malandraki, W. Dröge, and Y. Kartavykh  
E-print, July 2014; A&A, Volume 567, A27, July 2014; **File**

**Solar Energetic Particle Events during the Rise Phases of Solar Cycles 23 and 24**

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

Advances in Space Research, 2013, **File**

**FLARE RIBBON ENERGETICS IN THE EARLY PHASE OF AN SDO FLARE**

L. **Fletcher**<sup>1</sup>, I. G. Hannah<sup>1</sup>, H. S. Hudson<sup>1,3</sup>, and D. E. Innes

2013 ApJ 771 104

**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.

**Comparisons of CME Morphological Characteristics Derived from Five 3D Reconstruction Methods**

L. **Feng**<sup>1, 2</sup>, B. Inhester<sup>2</sup> and M. Mierla

Solar Phys., January 2013, Volume 282, Issue 1, pp 221-238; **File**

**SLOW RISE AND PARTIAL ERUPTION OF A DOUBLE-DECKER FILAMENT. I. OBSERVATIONS AND INTERPRETATION**

Rui **Liu**<sup>1,2</sup>, Bernhard Kliem<sup>3,4</sup>, Tibor Török<sup>5</sup>, Chang Liu<sup>2</sup>, Viacheslav S. Titov<sup>5</sup>, Roberto Lionello<sup>5</sup>, Jon A. Linker<sup>5</sup>, and Haimin Wang

2012 ApJ 756 59

**MORPHOLOGICAL EVOLUTION OF A THREE-DIMENSIONAL CORONAL MASS EJECTION CLOUD RECONSTRUCTED FROM THREE VIEWPOINTS**

L. **Feng**<sup>1,2</sup>, B. Inhester<sup>2</sup>, Y. Wei<sup>2</sup>, W. Q. Gan<sup>1</sup>, T. L. Zhang<sup>3</sup>, and M. Y. Wang

2012 ApJ 751 18, **File**

**Filament Eruption in NOAA 11093 Leading to a Two-Ribbon M1.0 Class Flare and CME**

P. **Vemareddy**, R. A. Maurya and A. Ambastha

Solar Physics, Volume 277, Number 2, 337-354, 2012

**OBSERVATIONS OF POST-FLARE PLASMA DYNAMICS DURING AN M1.0 FLARE IN AR11093 BY THE SOLAR DYNAMICS OBSERVATORY/ATMOSPHERIC IMAGING ASSEMBLY\***

Abhishek K. **Srivastava**<sup>1,2</sup> and K. Murawski

2012 ApJ 744 173

**"SDO EVE spectroscopy of solar flares,"**

Phil **Chamberlin** and Tom Woods.

RHESSI Science Nugget, 2010

See [http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/SDO\\_EVE\\_Flare\\_Observation](http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/SDO_EVE_Flare_Observation)

**9 Aug**

**Kinematical evolution of large-scale EUV waves in the solar corona**

G. Mann, A. Warmuth and H. Önel

A&A 675, A129 (2023)

<https://www.aanda.org/articles/aa/pdf/2023/07/aa46378-23.pdf>

**9-11 Aug**

**Automatic detection and tracking of coronal bright points in SDO/AIA images**

I. Dorotovič<sup>1,2</sup>, A. Coelho<sup>2</sup>, J. Rybák<sup>3</sup>, A. Mora<sup>2</sup>, R. Ribeiro<sup>2</sup>, W. Kusa<sup>4</sup>, R. Pires<sup>2</sup>  
Sun and Geosphere, 2018; 13/2: 129 - 133

[http://newsserver.stil.bas.bg/SUNGEO//00SGArhiv/SG\\_v13\\_No2\\_2018-pp-129-133.pdf](http://newsserver.stil.bas.bg/SUNGEO//00SGArhiv/SG_v13_No2_2018-pp-129-133.pdf)

**11 Aug**

**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>

**Derivations and Observations of Prominence Bulk Motions and Mass**

**Review**

T.A. Kucera

in Solar Prominences, eds. J.-C. Vial and O. Engvold, Springer, p. 79, 2015

<http://arxiv.org/pdf/1502.00653v1.pdf>

**14 Aug:** around 10:05 UT, magnetic fields connecting sunspot 1093 and 1099 erupted, producing a two-sunspot solar flare (C4-class, N11W53) and hurling a huge blob of plasma into space. Type II burst; **хорошая эрупция и корональная волна**  
Протоны E10~10. See Events.

**Kinematical evolution of large-scale EUV waves in the solar corona**

G. Mann, A. Warmuth and H. Önel

A&A 675, A129 (2023)

<https://www.aanda.org/articles/aa/pdf/2023/07/aa46378-23.pdf>

**Automated detection of coronal MASS ejecta origins for space weather Applications (ALMANAC)**

[Thomas Williams](#), [Huw Morgan](#)

Space Weather 2022

<https://arxiv.org/pdf/2211.04405.pdf>

**A new method to determine solar energetic particle anisotropies and their associated uncertainties demonstrated for STEREO/SEPT**

M. Brüdern<sup>1</sup>, L. Berger<sup>1</sup>, B. Heber<sup>1</sup>, V. Heidrich-Meisner<sup>1</sup>, A. Klassen<sup>1</sup>, A. Kollhoff<sup>1</sup>, P. Kühl<sup>1</sup>, R. D. Strauss<sup>2</sup>, R. Wimmer-Schweingruber<sup>1</sup> and N. Dresing<sup>1,3</sup>

A&A 663, A89 (2022)

<https://www.aanda.org/articles/aa/pdf/2022/07/aa42761-21.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>

**A Fast, Simple, Robust Algorithm for Coronal Temperature Reconstruction**

[Joseph Plowman](#), [Amir Caspi](#)

ApJ 2020  
<https://arxiv.org/pdf/2006.06828.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](http://www.ioffe.ru/LEA/SF_AR/files/Richardson2019.pdf)

## DERIVATION OF THE MAGNETIC FIELD IN A CORONAL MASS EJECTION CORE VIA MULTI-FREQUENCY RADIO IMAGING

Samuel D. [Tun](#)<sup>1,3</sup> and A. Vourlidas<sup>2</sup>

2013 *ApJ* **766** 130

[sci-hub.se/10.1088/0004-637x/766/2/130](http://sci-hub.se/10.1088/0004-637x/766/2/130)

## Two Types of Long-duration Quasi-static Evolution of Solar Filaments

[Chen Xing](#), [Haochuan Li](#), [Bei Jiang](#), [Xin Cheng](#), [M. D. Ding](#)

ApJL 2018

<https://arxiv.org/pdf/1804.01232.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>

## 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>

## Динамика нагрева плазмы и энергетических распределений ускоренных электронов во время солнечных вспышек по данным рентгеновского и ультрафиолетового излучения

[Моторина Г.Г.](#)

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[http://www.gaoran.ru/russian/diss/Motorina\\_diss.pdf](http://www.gaoran.ru/russian/diss/Motorina_diss.pdf)

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## 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

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## The Solar Energetic Particle Event of 2010 August 14: Connectivity with the Solar Source Inferred from Multiple Spacecraft Observations and Modeling

D. [Lario](#)<sup>1</sup>, R.-Y. Kwon<sup>1,2</sup>, I. G. Richardson<sup>3,4</sup>, N. E. Raouafi<sup>1</sup>, B. J. Thompson<sup>3</sup>, T. T. von

Roseninge<sup>3</sup>, M. L. Mays<sup>3</sup>, P. A. Mäkelä<sup>3,5</sup>, H. Xie<sup>3,5</sup>, H. M. Bain<sup>6</sup>, M. Zhang<sup>7</sup>, L. Zhao<sup>7</sup>, H. V. Cane<sup>8</sup>,

A. Papaioannou<sup>9</sup>, N. Thakur<sup>3,5</sup>, and P. Riley<sup>10</sup>

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## 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>

**Solar signatures and eruption mechanism of the 2010 August 14 CME**  
Elke **D'Huys**, Daniel B. Seaton, Anik De Groof, David Berghmans, Stefaan Poedts  
Journal of Space Weather and Space Climate **2017**  
<https://arxiv.org/pdf/1701.08814v1.pdf>

**MULTI-SPACECRAFT OBSERVATIONS AND TRANSPORT MODELING OF ENERGETIC ELECTRONS FOR A SERIES OF SOLAR PARTICLE EVENTS IN AUGUST 2010**  
W. **Dröge**<sup>1</sup>, Y. Y. Kartavykh<sup>1,2</sup>, N. Dresing<sup>3</sup>, and A. Klassen  
**2016** ApJ 826 134

**Study of Solar Energetic Particle Associations with Coronal Extreme-ultraviolet Waves**  
Jinhye **Park**<sup>1</sup>, D. E. Innes<sup>2</sup>, R. Bucik<sup>2,3</sup>, Y.-J. Moon<sup>1,4</sup>, and S. W. Kahler  
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**Multi-thermal representation of the kappa-distribution of solar flare electrons and application to simultaneous X-ray and EUV observations**  
Marina **Battaglia**, Galina Motorina, Eduard P. Kontar  
ApJ **2015**  
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<http://arxiv.org/pdf/1510.06755v1.pdf>

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**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  
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**Study of Solar Energetic Particle Associations with Coronal Extreme-ultraviolet Waves**  
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## **Statistical Analysis of Large-scale EUV Waves Observed by STEREO/EUVI**

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Solar Phys., 2014

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## **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

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

Wei **Liu**, Leon Ofman

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## **Electron Distribution Functions in Solar Flares from combined X-ray and EUV Observations**

Marina **Battaglia** & Eduard P. Kontar

E-print, Oct 2013, <http://arxiv.org/pdf/1310.3930v1.pdf>; ApJ

## **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

## **DERIVATION OF THE MAGNETIC FIELD IN A CORONAL MASS EJECTION CORE VIA MULTI-FREQUENCY RADIO IMAGING**

Samuel D. **Tun**<sup>1,3</sup> and A. Vourlidas

2013 ApJ 766 130

## **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

## **On the Nature and Genesis of EUV Waves: A Synthesis of Observations from SOHO, STEREO, SDO, and Hinode** **Review**

Spiros **Patsourakos**<sup>1</sup> \_ Angelos Vourlidas

arXiv-print, 2012, File; Solar Physics, Special Issue "The Sun in 360", 2012,

## **The Wave Properties of Coronal Bright Fronts Observed Using SDO/AIA**

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**16-21 Aug**

## **The Evolution of Barbs of a Polar Crown Filament Observed by SDO**

Leping **Li**, Jun Zhang

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Хорошая **корональная волна** на STEREO-A.  
Протоны E10<10 sp.u.

### **Connecting theory of plasmoid-modulated reconnection to observations of solar flares**

[Andrew Hillier](#), [Shinsuke Takasao](#)

Experimental Results (2022), 3, e26, 1–10

<https://arxiv.org/ftp/arxiv/papers/2301/2301.03239.pdf>

### **Twin extreme ultraviolet waves in the solar corona**

Ruisheng **Zheng**, [Bing Wang](#), [Liang Zhang](#), [Yao Chen](#), [Robertus Erdelyi](#)

ApJ 2022

<https://arxiv.org/pdf/2203.15513.pdf>

### **Formation of Coronal Mass Ejection and Post-eruption Flow of Solar Wind on 2010 August 18 event**

Vladimir **Slemzin**, [Farid Goryaev](#), [Denis Rodkin](#)

ApJ 2022

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### **Three-dimensional Reconstruction of Coronal Mass Ejections by CORAR Technique through Different Stereoscopic Angle of STEREO Twin Spacecraft**

[Shaoyu Lyu](#), [Yuming Wang](#), [Xiaolei Li](#), [Jingnan Guo](#), [Chuanbing Wang](#), [Quanhao Zhang](#)

2021

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### **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>

### **Solar Energetic Particles Observed by the STEREO Spacecraft During Solar Cycle 24**

I. G. **Richardson**

Presentation at the Fleishman's Webinar, 22 May 2019

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### **Evaluation of standoff distance method to determine the coronal magnetic field using CME-driven shocks**

K. **Suresh**, A. Shanmugaraju, M. Syed Ibrahim

Astrophysics and Space Science November 2016, 361:360

[http://link.springer.com/article/10.1007/s10509-016-2944-4?wt\\_mc=alerts.TOCjournals](http://link.springer.com/article/10.1007/s10509-016-2944-4?wt_mc=alerts.TOCjournals)

### **OBSERVATIONAL EVIDENCE OF PARTICLE ACCELERATION ASSOCIATED WITH PLASMOID MOTIONS**

Shinsuke **Takasao**<sup>1</sup>, Ayumi Asai<sup>2,3</sup>, Hiroaki Isobe<sup>3,4</sup>, and Kazunari Shibata

2016 ApJ 828 103

<https://arxiv.org/pdf/1611.00108v1.pdf>

### **MULTI-SPACECRAFT OBSERVATIONS AND TRANSPORT MODELING OF ENERGETIC ELECTRONS FOR A SERIES OF SOLAR PARTICLE EVENTS IN AUGUST 2010**

W. **Dröge**<sup>1</sup>, Y. Y. Kartavykh<sup>1,2</sup>, N. Dresing<sup>3</sup>, and A. Klassen

2016 ApJ 826 134

## **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**

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

Jinhye **Park**<sup>1</sup>, D. E. Innes<sup>2</sup>, R. Bucik<sup>2,3</sup>, Y.-J. Moon<sup>1,4</sup>, and S. W. Kahler  
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## **Statistical Analysis of Large-scale EUV Waves Observed by STEREO/EUVI**

Nicole **Muhr**, Astrid Maria Veronig, Ines Waltraud Kienreich, Bojan Vrtnak, Manuela Temmer, Bianca Maria Bein

Solar Phys., 2014

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## **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**

## **Interacting CMEs and their associated flare and SEP activities**

A. **Shanmugaraju**, S. Prasanna Subramanian

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## **Large Proton Anisotropies in the 18 August 2010 Solar Particle Event**

R. A. **Leske**, C. M. S. Cohen, R. A. Mewaldt, E. R. Christian, A. C. Cummings, A. W. Labrador, E. C. Stone, M. E. Wiedenbeck, T. T. von Rosenvinge

Solar Physics, November 2012, Volume 281, Issue 1, pp 301-318

## **SIMULTANEOUS OBSERVATION OF RECONNECTION INFLOW AND OUTFLOW ASSOCIATED WITH THE 2010 AUGUST 18 SOLAR FLARE**

Shinsuke **Takasao**<sup>1,2</sup>, Ayumi Asai<sup>3</sup>, Hiroaki Isobe<sup>3</sup> and Kazunari Shibata

2012 ApJ 745 L6

## **20 Aug**

### **Observations and Implications of Large-Amplitude Longitudinal Oscillations in a Solar Filament**

M. **Luna**, K. Knizhnik, K. Muglach, J. Karpen, H. Gilbert, T.A. Kucera, V. Uritsky

ApJ, 2014

<http://arxiv.org/pdf/1403.0381v1.pdf>

### **Rapid Formation and Disappearance of a Filament Barb**

Anand D. **Joshi**, Nandita Srivastava, Shibu K. Mathew, Sara F. Martin

Solar Physics, November 2013, Volume 288, Issue 1, pp 191-203

## **20-21 Aug**

### **Formation of Coronal Mass Ejection and Post-eruption Flow of Solar Wind on 2010 August 18 event**

Vladimir **Slemzin**, **Farid Goryaev**, **Denis Rodkin**

ApJ 2022

<https://arxiv.org/pdf/2203.06976.pdf>

**21 Aug**

### 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>

### Kelvin--Helmholtz instability in a twisting solar polar coronal hole jet observed by **SDO/AIA**

I. [Zhelyazkov](#), T. V. Zaqarashvili, L. Ofman, R.Chandra

2017 *Advances in Space Research*

<https://arxiv.org/pdf/1706.03703.pdf>

### Kinematics and Fine Structure of an Unwinding Polar Jet Observed by the SDO/AIA

[Shen](#), Yuandeng; Liu, Yu; Su, Jiangtao; Ibrahim, Ahmed

E-print, July 2013; ApJL, 2011 ApJ 735 L43

**21-28 Aug**

### Quantifying the Consistency and Characterizing the Confidence of Coronal Holes Detected by Active Contours without Edges (ACWE)

Jeremy A. [Grajeda](#), [Laura E. Boucheron](#), [Michael S. Kirk](#), [Andrew Leisner](#), [C. Nick Arge](#)

2023

<https://arxiv.org/pdf/2308.05679.pdf>

**22 Aug**

### TRANSIENT BRIGHTENINGS ASSOCIATED WITH FLUX CANCELLATION ALONG A FILAMENT CHANNEL

Y.-M. [Wang](#)<sup>1</sup> and K. Muglach

2013 ApJ 763 97

**23 Aug**

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

M. E. [Wiedenbeck](#)<sup>1</sup>, G. M. Mason<sup>2</sup>, C. M. S. Cohen<sup>3</sup>, N. V. Nitta<sup>4</sup>, R. Gómez-Herrero<sup>5,6</sup>, and D. K Haggerty

2013 ApJ 762 54

**27 Aug**

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

B. M. [Bein](#)<sup>1</sup>, M. Temmer<sup>1</sup>, A. Vourlidas<sup>2</sup>, A. M. Veronig<sup>1</sup>, and D. Utz

2013 ApJ 768 31; **File**

### AN AUTOMATIC DETECTION METHOD FOR EXTREME-ULTRAVIOLET DIMMINGS ASSOCIATED WITH SMALL-SCALE ERUPTION

N. [Alipour](#)<sup>1</sup>, H. Safari<sup>1</sup> and D. E. Innes

2012 ApJ 746 12, **File**

**28 Aug**

### Onset of the Magnetic Explosion in Solar Polar Coronal X-Ray Jets

Ronald L. [Moore](#)<sup>1,2</sup>, Alphonse C. Sterling<sup>1</sup>, and Navdeep K. Panesar<sup>1</sup>

2018 ApJ 859 3

<http://sci-hub.tw/http://iopscience.iop.org/0004-637X/859/1/3/>

### **Small-scale filament eruptions as the driver of solar coronal hole X-ray jets**

Alphonse C. [Sterling](#), Ronald L. Moore, David A. Falconer, Mitzi Adams

2015, Nature, 523, 437-440

<https://arxiv.org/pdf/1705.03373.pdf>

**29 Aug**

### **Evolution of the critical torus instability height and CME likelihood in solar active regions**

[Alexander W. James](#), [David R. Williams](#), [Jennifer O'Kane](#)

A&A 2022

<https://arxiv.org/pdf/2206.10639.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>

**30 Aug**

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

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

ApJ 2022

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

**30 Aug-4 Sep**

### **Analysis of a long-duration AR throughout five solar rotations: Magnetic properties and ejective events**

Francisco A. [Iglesias](#), [Hebe Cremades](#), [Luciano A. Merenda](#), [Cristina H. Mandrini](#), [Fernando M. Lopez](#), [Marcelo C. Lopez Fuentes](#), [Ignacio Ugarte-Urra](#)

Advances in Space Research

2019

<https://arxiv.org/pdf/1911.01265.pdf>

**31 Aug**

### **Three-dimensional analyses of an aspherical coronal mass ejection and its driven shock**

[Beili Ying](#), [Li Feng](#), [Bernd Inhester](#), [Marilena Mierla](#), [Weiqun Gan](#), [Lei Lu](#), [Shuting Li](#)

A&A 2022

<https://arxiv.org/pdf/2201.08019.pdf>

### **Statistical survey of widely spread out solar electron events observed with STEREO and ACE with special attention to anisotropies**

N. [Dresing](#), R. Gómez-Herrero, B. Heber, A. Klassen, O. Malandraki, W. Dröge, and Y. Kartavykh  
E-print, July 2014; A&A, Volume 567, A27, July 2014; [File](#)

### **Full halo coronal mass ejections: Do we need to correct the projection effect in terms of velocity?†**

Chenglong [Shen](#)<sup>\*</sup>, Yuming Wang, Zonghao Pan, Min Zhang, Pinzhong Ye, S. Wang  
Journal of Geophysical Research: v. 118, Issue 11, pages 6858–6865, 2013, [File](#)

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

M. E. [Wiedenbeck](#)<sup>1</sup>, G. M. Mason<sup>2</sup>, C. M. S. Cohen<sup>3</sup>, N. V. Nitta<sup>4</sup>, R. Gómez-Herrero<sup>5,6</sup>, and D. K Haggerty

2013 ApJ 762 54

**Stereoscopic Analysis of the 31 August 2007 Prominence Eruption and Coronal Mass Ejection**

P. C. [Liewer](#), O. Panasenco, J. R. Hall  
Solar Physics, January 2013, Volume 282, Issue 1, pp 201-220

**1 Sept**

**Association of 3He-Rich Solar Energetic Particles with Large-Scale Coronal Waves**

Radoslav [Bucik](#), Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck  
2016  
<http://arxiv.org/pdf/1609.05346v1.pdf>

**2 Sep**

**3He-Rich Solar Energetic Particle Events with No Measurable 4He Intensity Increases**

George C. [Ho](#), Glenn M. Mason, Robert C. Allen  
[Solar Physics](#) February 2019, 294:33  
<https://link.springer.com/content/pdf/10.1007%2Fs11207-019-1420-z.pdf>  
<https://sci-hub.tw/10.1007/s11207-019-1420-z>

**3 Sept**

**Two Types of Long-duration Quasi-static Evolution of Solar Filaments**

[Chen Xing](#), [Haochuan Li](#), [Bei Jiang](#), [Xin Cheng](#), [M. D. Ding](#)  
ApJL 2018  
<https://arxiv.org/pdf/1804.01232.pdf>

**CONTRACTING AND ERUPTING COMPONENTS OF SIGMOIDAL ACTIVE REGIONS**

Rui [Liu](#)<sup>1,2</sup>, Chang Liu<sup>2</sup>, Tibor Török<sup>3</sup>, Yuming Wang<sup>1</sup>, and Haimin Wang  
2012 ApJ 757 150

**03-07 Sep**

**Quantifying the Consistency and Characterizing the Confidence of Coronal Holes Detected by Active Contours without Edges (ACWE)**

Jeremy A. [Grajeda](#), [Laura E. Boucheron](#), [Michael S. Kirk](#), [Andrew Leisner](#), [C. Nick Arge](#)  
2023  
<https://arxiv.org/pdf/2308.05679.pdf>

**4 Sept**

**Multi-spacecraft Observations of the Coronal and Interplanetary Evolution of a Solar Eruption Associated with Two Active Regions**

Huidong [Hu](#), Ying D. Liu, Rui Wang, Xiaowei Zhao, Bei Zhu, Zhongwei Yang  
ApJ 2017  
<https://arxiv.org/pdf/1704.05496.pdf>

**Association of 3He-Rich Solar Energetic Particles with Large-Scale Coronal Waves**

Radoslav [Bucik](#), Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck  
2016  
<http://arxiv.org/pdf/1609.05346v1.pdf>

**5-17 Sep**

**Analysis of a long-duration AR throughout five solar rotations: Magnetic properties and ejective events**

Francisco A. [Iglesias](#), [Hebe Cremades](#), [Luciano A. Merenda](#), [Cristina H. Mandrini](#), [Fernando M. Lopez](#), [Marcelo C. Lopez Fuentes](#), [Ignacio Ugarte-Urra](#)  
Advances in Space Research **2019**  
<https://arxiv.org/pdf/1911.01265.pdf>

**6 Sept:** ~15 UT – хороший пример импульсной C1 вспышки без эрупции петель над ней и без CME. См. фильм SDO в Chains.

**7 Sept:** ~15 UT – хорошая эрупция NE волокна (видимо, возвратная) с небольшим CME. См. фильм SDO в Chains. **304 A**.

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

Nicole [Muh](#)r, Astrid Maria Veronig, Ines Waltraud Kienreich, Bojan Vrsnak, Manuela Temmer, Bianca Maria Bein  
Solar Phys., **2014**  
<http://arxiv.org/pdf/1408.2513v1.pdf>

**8 Sept:** 23:30, W-limb. During the late hours of Sept. 8th, just as a sunspot 1105 was turning away from Earth, the active region erupted, producing a long-duration C3-class solar flare and a fantastic prominence. The eruption also hurled a bright coronal mass ejection into space. Хорошая корональная волна на STEREO-A. См. Chains.

### **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

### **Onset of the Magnetic Explosion in Solar Polar Coronal X-Ray Jets**

Ronald L. [Moore](#)<sup>1,2</sup>, Alphonse C. Sterling<sup>1</sup>, and Navdeep K. Panesar<sup>1</sup>  
2018 ApJ 859 3  
<http://sci-hub.tw/http://iopscience.iop.org/0004-637X/859/1/3/>

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

**Review**

[Warmuth](#), Alexander  
Living Reviews in Solar Physics, PUB.NO. IrsP-2015-3, **2015**  
<http://solarphysics.livingreviews.org/Articles/IrsP-2015-3/> File

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

Nicole [Muh](#)r, 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](http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf)

### **DUAL TRIGGER OF TRANSVERSE OSCILLATIONS IN A PROMINENCE BY EUV FAST AND SLOW CORONAL WAVES: SDO/AIA AND STEREO/EUVI OBSERVATIONS**

S. [Gosain](#)<sup>1</sup> and C. Foullon  
2012 ApJ 761 103, File

## Quasi-periodic Fast-mode Wave Trains Within a Global EUV Wave and Sequential Transverse Oscillations Detected by SDO/AIA

Wei [Liu](#), Leon Ofman, Nariaki V. Nitta, Markus J. Aschwanden, Carolus J. Schrijver, Alan M. Title, Theodore D. Tarbell  
E-print, Apr. **2012**; Ap. J. 753:52 (17pp), **2012**, [File](#)

## 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>

от лимбовой вспышки 8 Sept, 23:30

**9** Sept - 00:06 – C3.3 **пересвет**  $A=17,5^*2/312=0,11 <-- 16s$ ;  $8 s \rightarrow L/Rs=0.056$

## 9 September

### Small-scale filament eruptions as the driver of X-ray jets in solar coronal holes

[Sterling](#), Alphonse C.; Moore, Ronald L.; Falconer, David A.; Adams, Mitzi  
Nature, Volume 523, Issue 7561, pp. 437-440 (**2015**)  
See [http://www.nature.com/nature/journal/v523/n7561/fig\\_tab/nature14556\\_SF3.html](http://www.nature.com/nature/journal/v523/n7561/fig_tab/nature14556_SF3.html)

## 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](#)

**10-11 Sept:** A filament eruption (centered in a large plage area) in the northeast quadrant was associated with a partial halo CME in LASCO images. See Events

## 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>

## 11 September

### Investigating The Cross-section of Coronal Mass Ejections Through the Study of Non-Radial Flows with STEREO/PLASTIC

N. [Al-Haddad](#), [A. B. Galvin](#), [N. Lugaz](#), [C. J. Farrugia](#), [W. Yu](#)  
ApJ **2021**  
<https://arxiv.org/pdf/2110.10682.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>

## 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>

### 11-14 September

#### **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>

### 13 September

#### **Apparent Solar Tornado - Like Prominences**

Olga **Panasenco**, Sara F. Martin, Marco Velli

E-print, July **2013**, Solar Phys.

### 14 Sept

#### **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>

#### **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>

**15 Sept:** ~12 UT, Эрупция NW волокон с куполом на SDO 304 А.

#### **Coronal mass ejections and their sheath regions in interplanetary space**

**Review**

Emilia **Kilpua**, Hannu E. J. Koskinen & Tuija I. Pulkkinen

Living Reviews in Solar Physics December **2017**, 14:5 File

<https://link.springer.com/content/pdf/10.1007%2Fs41116-017-0009-6.pdf>

**16 Sept:** ~12 UT, Эрупция NW волокон на SDO 304 А.

#### **Three-dimensional MHD modeling of propagating disturbances in fan-like coronal loops**

Tongjiang **Wang**, Leon Ofman, and Joseph M. Davila

E-print, Aug **2013**; ApJL

### 17 September

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

**Review**

**Brigitte Schmieder**

Frontiers 9:820183. **2022**

doi: 10.3389/fspas.2022.820183

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

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

#### **Onset of the Magnetic Explosion in Solar Polar Coronal X-Ray Jets**

Ronald L. **Moore**<sup>1,2</sup>, Alphonse C. Sterling<sup>1</sup>, and Navdeep K. Panesar<sup>1</sup>

**2018** ApJ 859 3

<http://sci-hub.tw/http://iopscience.iop.org/0004-637X/859/1/3/>

#### **Small-scale filament eruptions as the driver of solar coronal hole X-ray jets**

Alphonse C. [Sterling](#), Ronald L. Moore, David A. Falconer, Mitzi Adams  
2015, Nature, 523, 437-440  
<https://arxiv.org/pdf/1705.03373.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

**Proper horizontal photospheric flows in a filament channel**  
B. [Schmieder](#), T. Roudier, N. Mein, P. Mein, J. M. Malherbe and R. Chandra  
A&A 564, A104 (2014)

**Twisting Solar Coronal Jet launched at the boundary of an active region**  
B. [Schmieder](#)<sup>1</sup>, Y. Guo<sup>2</sup>, F. Moreno-Insertis<sup>3;4</sup>, G. Aulanier<sup>1</sup>, L. Yelles Chaouche<sup>3;4</sup>, N. Nishizuka<sup>5;6</sup>, L. K. Harra<sup>6</sup>, J. K. Thalmann<sup>7</sup>, S. Vargas Dominguez<sup>8</sup>, and Y. Liu<sup>9</sup>  
E-print, Sept 2013; A&A

**Recurrent coronal jets induced by repetitively accumulated electric currents★**  
Y. [Guo](#)<sup>1,2</sup>, P. Démoulin<sup>3</sup>, B. Schmieder<sup>3</sup>, M. D. Dingl<sup>1,2</sup>, S. Vargas Domínguez<sup>4</sup> and Y. Liu  
A&A 555, A19 (2013)

## 17-30 September

**Quantifying the Consistency and Characterizing the Confidence of Coronal Holes Detected by Active Contours without Edges (ACWE)**  
Jeremy A. [Grajeda](#), [Laura E. Boucheron](#), [Michael S. Kirk](#), [Andrew Leisner](#), [C. Nick Arge](#)  
2023  
<https://arxiv.org/pdf/2308.05679.pdf>

**Solar filament eruptions and their physical role in triggering Coronal Mass Ejections**  
[Schmieder](#) B., Demoulin P., Aulanier G. **Review**  
E-print, Dec 2012, File; Advances in Space Research, 2013

**The Build-up to Eruptive Solar Events Viewed as the Development of Chiral Systems**  
Sara F. [Martin](#), Olga Panasenco, Mitchell A. Berger, Oddbjorn Engvold, Yong Lin, Alexei A. Pevtsov, Nandita Srivastava  
2nd ATST - EAST Workshop in Solar Physics: Magnetic Fields from the Photosphere to the Corona, ASP Conference Series, Vol. 463, p.157, 2012, File

## 18-19 Sep

**Coronal Models and Detection of Open Magnetic Field**  
[Eleanna Asvestari](#), [Manuela Temmer](#), [Ronald M. Caplan](#), +++  
ApJ 2023  
<https://arxiv.org/pdf/2311.04024.pdf>

## 19 Sep

**Coronal Hole Detection and Open Magnetic Flux**  
J. A. [Linker](#), [S. G. Heinemann](#), [M. Temmer](#), [M. J. Owens](#), [R. M. Caplan](#), [C. N. Arge](#), [E. Asvestari](#), [V. Delouille](#), [C. Downs](#), [S. J. Hofmeister](#), [I. C. Jebaraj](#), [M. Madjarska](#), [R. Pinto](#), [J. Pomoell](#), [E. Samara](#), [C. Scolini](#), [B. Vrsnak](#)  
ApJ 2021  
<https://arxiv.org/pdf/2103.05837.pdf>

## 20 September

## Apparent Solar Tornado - Like Prominences

Olga [Panasenco](#), Sara F. Martin, Marco Velli  
E-print, July 2013, Solar Phys.

**22 September** 04- Восточная прилиمْбовая эрупция, выброс волокна **304 A**  
18 – Эрупция северного волокна

### 23 September

#### Simultaneous Observations of Solar Prominence Oscillations Using Two Remote Telescopes

Maciej [Zapiór](#), Pavel Kotrč, Paweł Rudawy, Ramon Oliver  
Solar Phys. 2015

### 24 September

#### 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

### 25 Sep

#### Fast Solar Image Classification Using Deep Learning and its Importance for Automation in Solar Physics

John A. [Armstrong](#), [Lyndsay Fletcher](#)  
Solar Phys. 2019  
<https://arxiv.org/pdf/1905.13575.pdf>

**26 сент**, 20: небольшая Е/центральная эрупция

**27 сент**, 14 и 18: две заметные Е/центральные эрупции

**28 September** 10: заметная центральная/В эрупция;  
15: ещё одна заметная эрупция **W~40-50**;

#### Mass Flows in a Prominence Spine as Observed in EUV

T. A. [Kucera](#)<sup>1</sup>, H. R. Gilbert<sup>1</sup>, and J. T. Karpen  
2014 ApJ 790 68

**29 сент**, 08: значительная NE эрупция волокна, E~40-50

#### Towards a Quantitative Comparison of Magnetic Field Extrapolations and Observed Coronal Loops

[Harry P. Warren](#), [Nicholas A. Crump](#), [Ignacio Ugarte-Urra](#), [Xudong Sun](#), [Markus J. Aschwanden](#), [Thomas Wiegelmann](#)  
ApJ 2018  
<https://arxiv.org/pdf/1805.00281.pdf>

### 3-30 Oct

#### Uncertainty Estimates of Solar Wind Prediction using HMI Photospheric Vector and Spatial Standard Deviation Synoptic Maps

Bala [Poduval](#), [Gordon Petrie](#), [Luca Bertello](#)  
Solar Phys. 2020  
<https://arxiv.org/pdf/2008.06538.pdf>

### 4 Oct

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>

**6 Oct:** ~04-05 UT, Хорошая эрупция NE волокна на 304 А SDO и STEREO-A,B. Большой CME хорошо виден на обоих STEREO; изображение EIT 304 А испорчено; См. Events по двум кадрам.

?Источник бури 11-ого?

### **Study of Interplanetary and Geomagnetic Response of Filament Associated CMEs**

Kunjai **Dave**, [Wageesh Mishra](#), [Nandita Srivastava](#), [R. M. Jadhav](#)

Proceedings IAU Symposium No. 340, **2018**

<https://arxiv.org/pdf/1807.00809.pdf>

### **An Automated Algorithm for Identifying and Tracking Transverse Waves in Solar Images**

Micah J. **Weberg**, Richard J. Morton, and James A. McLaughlin

**2018** ApJ 852 57

<http://sci-hub.tw/10.3847/1538-4357/aa9e4a>

### **Evolution and Consequences of Coronal Mass Ejections in the Heliosphere**

[Wageesh Mishra](#)

The **thesis** was submitted in Mar **2015** to MLS university, Udaipur, for which the university granted the degree in Jan 2016

<https://arxiv.org/pdf/2204.09879.pdf>

### **Heliospheric tracking of enhanced density structures of the 6 October 2010 CME**

Wageesh **Mishra**, Nandita Srivastava

Journal of Space Weather and Space Climate (SWSC) **2015**

<http://arxiv.org/pdf/1505.04871v1.pdf>

### **A Comparison of Reconstruction Methods for the Estimation of Coronal Mass Ejections Kinematics Based on SECCHI/HI Observations**

Wageesh **Mishra**, Nandita Srivastava, and Jackie A. Davies

**2014** ApJ 784 135

<http://arxiv.org/pdf/1407.8446v1.pdf>

### **ON THE ORIGIN OF THE EXTREME-ULTRAVIOLET LATE PHASE OF SOLAR FLARES**

Kai **Liu**<sup>1,2</sup>, Jie Zhang<sup>2</sup>, Yuming Wang<sup>1</sup>, and Xin Cheng

**2013** ApJ 768 150

**7 Oct**

### **Toward a Unified Explanation for the Three-part Structure of Solar Coronal Mass Ejections**

[Hongqiang Song](#), [Leping Li](#), [Yao Chen](#)

ApJ **2022**

<https://arxiv.org/pdf/2205.11682.pdf>

### **Coronal upflows from edges of an active region observed with EUV Imaging Spectrometer onboard Hinode**

Naomasa **Kitagawa**

PhD thesis, **2014**

<http://arxiv.org/pdf/1411.4742v1.pdf>

**8 Oct, ~23: Четкая** корональная волна на STEREO-A  
**RATAN-600 Observations of Small Scale Structures with High Spectral Resolution**  
V. M. **Bogod**, C. E. Alissandrakis, T. I. Kaltman, S. Kh. Tokhchukova  
Solar Phys., 2014  
<http://arxiv.org/pdf/1403.7658v1.pdf>

**8-16 Oct**  
**Analysis of a long-duration AR throughout five solar rotations: Magnetic properties and ejective events**  
Francisco A. **Iglesias**, [Hebe Cremades](#), [Luciano A. Merenda](#), [Cristina H. Mandrini](#), [Fernando M. Lopez](#), [Marcelo C. Lopez Fuentes](#), [Ignacio Ugarte-Urra](#)  
Advances in Space Research **2019**  
<https://arxiv.org/pdf/1911.01265.pdf>

**10 Oct, >19:** Заметная эрупция SE волокна на SDO 304 A.

**Evolution and Consequences of Coronal Mass Ejections in the Heliosphere**  
[Wageesh Mishra](#)  
The **thesis** was submitted in Mar **2015** to MLS university, Udaipur, for which the university granted the degree in Jan 2016  
<https://arxiv.org/pdf/2204.09879.pdf>

**Pseudostreamers as the source of a separate class of solar coronal mass ejections,**  
[Wang](#), Y-M.  
(**2015**), Astrophys. J. Lett., 803. L12.  
<http://iopscience.iop.org/article/10.1088/2041-8205/803/1/L12/pdf>

**Estimating the Arrival Time of Earth-directed Coronal Mass Ejections at in Situ Spacecraft Using COR and HI Observations from STEREO**  
Wageesh [Mishra](#) and Nandita Srivastava  
**2013** ApJ 772 70  
<http://arxiv.org/pdf/1306.1397v1.pdf>

**11 Oct**  
**Study of Interplanetary and Geomagnetic Response of Filament Associated CMEs**  
Kunjai **Dave**, [Wageesh Mishra](#), [Nandita Srivastava](#), [R. M. Jadhav](#)  
Proceedings IAU Symposium No. 340, **2018**  
<https://arxiv.org/pdf/1807.00809.pdf>

**13 Oct**  
**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>

**13-15 Oct**

**16 Oct** – 19:10 – M2.9 вспышка, **пересвет** на STEREO-A,  $A=31*2/310=0,20$

**16 Oct, 19:12** – M2.9/1N (S20W26) квазипульсная **confined** вспышка в северной части AR 1112 без эрупции расположенного в ней крупного волокна  
**RHESSI Science Nuggets**  
[http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/M\\_is\\_for\\_Magnifique](http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/M_is_for_Magnifique)

## Circular-ribbon flares and the related activities

Review

[Qingmin Zhang](#)

Reviews of Modern Plasma Physics 2024

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

## Observational Analysis of Lyman-alpha Emission in Equivalent Magnitude Solar Flares

[Harry J. Greatorex](#), [Ryan O. Milligan](#), [Phillip C. Chamberlin](#)

ApJ 2023

<https://arxiv.org/pdf/2306.16234.pdf>

## Machine learning correlation of SDO/AIA EUV images to GOES/XRS X-ray flare magnitudes

Kiera van der **Sande**, Natasha Flyer, Thomas Berger, and Riana Gagnon

Front. Astron. Space Sci. 9:1031211. 2022

<https://www.frontiersin.org/articles/10.3389/fspas.2022.1031211/pdf>

<https://doi.org/10.3389/fspas.2022.1031211>

## Coronal loop kink oscillation periods derived from the information of density, magnetic field, and loop geometry

G. Y. **Chen**<sup>1</sup>, L. Y. Chen<sup>1</sup>, Y. Guo<sup>1</sup>, M. D. Ding<sup>1</sup>, P. F. Chen<sup>1</sup> and R. Erdélyi<sup>2,3,4</sup>

A&A 664, A48 (2022)

<https://www.aanda.org/articles/aa/pdf/2022/08/aa42711-21.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>

## Global Energetics of Solar Flares. IX. Refined Magnetic Modeling

Markus J. **Aschwanden**

ApJ 2019

[http://www.lmsal.com/~aschwand/eprints/2019\\_global9.pdf](http://www.lmsal.com/~aschwand/eprints/2019_global9.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](http://www.lmsal.com/~aschwand/eprints/2016_global4.pdf)

## Forward Modelling of Standing Kink Modes in Coronal Loops II. Applications

Ding **Yuan**, Tom Van Doorsselaere

2016

<http://arxiv.org/pdf/1602.07598v1.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>

## 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>

**Quiescent Reconnection Rate Between Emerging Active Regions and Preexisting Field, with Associated Heating: NOAA AR 11112**

Lucas A. **Tarr**, Dana W. Longcope, David E. McKenzie, Keiji Yoshimura  
Solar Physics, September 2014, Volume 289, Issue 9, pp 3331-3349

**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](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.

**Multiwavelength Study of a Solar Eruption from AR NOAA 11112: II. Large-Scale Coronal Wave and Loop Oscillation**

Pankaj **Kumar**<sup>1</sup>, K.-S. Cho<sup>1, 2, 3</sup>, P. F. Chen<sup>4</sup>, S.-C. Bong<sup>1</sup> and Sung-Hong Park  
Solar Physics, 2012, doi 10.1007/s11207-012-0158-7, **File**

**CALCULATING ENERGY STORAGE DUE TO TOPOLOGICAL CHANGES IN EMERGING ACTIVE REGION NOAA AR 11112**

Lucas **Tarr** and Dana Longcope  
2012 ApJ 749 64

**M is for Magnifique Part Deux**

Steven **Christe**, Andy Inglis

RHESSI nugget, 21 Feb 2011

[http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/M\\_is\\_for\\_Magnifique\\_Part\\_Deux](http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/M_is_for_Magnifique_Part_Deux)

we continue our analysis of the M class flare of **October 16th, 2010** (SOL2010-10-16T19:12)

**17 Oct** – тоже импульсные C1.7 и C1.6 вспышки, тоже в северной и тоже без эрупций

**17-23 Oct**

**Analysis of a long-duration AR throughout five solar rotations: Magnetic properties and ejective events**

Francisco A. **Iglesias**, [Hebe Cremades](#), [Luciano A. Merenda](#), [Cristina H. Mandrini](#), [Fernando M. Lopez](#), [Marcelo C. Lopez Fuentes](#), [Ignacio Ugarte-Urra](#)

Advances in Space Research **2019**

<https://arxiv.org/pdf/1911.01265.pdf>

**18 Oct, 11 UT** – эрупция и C1.2 вспышка в южной части волокна в AR 1112;

**16:43** - C2.5 long duration event, возмущение по всему волокну с выбросом только небольших джетов, **эрупция сильнее проявляется в высокотемпературных каналах**; видимо, эруптировала часть аркады над волокну, а само волокно осталось на месте; **практически без CME**;

C1.2 at 21:39 UTC.

**Longitudinal filament oscillations enhanced by two C-class flares**  
**Longitudinal filament oscillations enhanced by two C-class flares**

Q. M. **Zhang**, [J. H. Guo](#), [K. V. Tam](#), [A. A. Xu](#)

A&A 635, A132 2020  
<https://arxiv.org/pdf/2001.01250.pdf>  
<https://doi.org/10.1051/0004-6361/201937291>

**18-20 Oct**

**SOLAR MAGNETIZED "TORNADOES:" RELATION TO FILAMENTS**

Yang [Su](#)<sup>1</sup>, Tongjiang Wang<sup>2,3</sup>, Astrid Veronig<sup>1</sup>, Manuela Temmer<sup>1</sup>, and Weiqun Gan  
2012 ApJ 756 L41

**19 Oct**

**Association of 3He-Rich Solar Energetic Particles with Large-Scale Coronal Waves**

Radoslav [Bucik](#), Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck  
2016  
<http://arxiv.org/pdf/1609.05346v1.pdf>

**20 Oct**

**Study of Extreme-ultraviolet Emission and Properties of a Coronal Streamer from PROBA2/SWAP, Hinode/EIS and Mauna Loa Mk4 Observations**

F. [Goryaev](#)<sup>1</sup>, V. Slemzin<sup>1</sup>, L. Vainshtein<sup>1</sup>, and David R. Williams  
2014 ApJ 781 100

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

M. E. [Wiedenbeck](#)<sup>1</sup>, G. M. Mason<sup>2</sup>, C. M. S. Cohen<sup>3</sup>, N. V. Nitta<sup>4</sup>, R. Gómez-Herrero<sup>5,6</sup>, and D. K. Haggerty  
2013 ApJ 762 54

**21 Oct**

**The Relation between Type III Radio Storms and CIR Energetic Particles**

Nat [Gopalswamy](#), [Pertti Mäkelä](#), [Seiji Yashiro](#), [Sachiko Akiyama](#), [Hong Xie](#)  
Proc. of 3rd URSI AT-AP-RASC, Gran Canaria, 29 May to 3 June 2022 2022  
<https://arxiv.org/ftp/arxiv/papers/2205/2205.15852.pdf>

**Evolution of photospheric flows under an erupting filament in the quiet-Sun region**

Jiří [Wollmann](#) (1), [Michal Švanda](#) (1 and 2), [David Korda](#) (1), [Thierry Roudier](#)  
A&A 2020  
<https://arxiv.org/pdf/2003.12515.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](http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf)

**Study of Extreme-ultraviolet Emission and Properties of a Coronal Streamer from PROBA2/SWAP, Hinode/EIS and Mauna Loa Mk4 Observations**

F. [Goryaev](#)<sup>1</sup>, V. Slemzin<sup>1</sup>, L. Vainshtein<sup>1</sup>, and David R. Williams  
2014 ApJ 781 100

**Height of a solar filament before eruption**

B. P. [Filippov](#)  
Astronomy Reports, October 2013, Volume 57, Issue 10, pp 778-78  
Astronomicheskii Zhurnal, 2013, Vol. 90, No. 10, pp. 848-856.

Филиппов, АЖ, 2013 Критическая высота эруптивовавшего волокна

**Filament eruption on 2010 October 21 from three viewpoints**

Boris **Filippov**

E-print, June 2013; ApJ 773 10

**AN EXTREME ULTRAVIOLET WAVE ASSOCIATED WITH A MICRO-SIGMOID ERUPTION**

Ruisheng **Zheng**, Yunchun Jiang, Jiayan Yang, Yi Bi, Junchao Hong, Dan Yang, and Bo Yang  
2012 ApJ 753 L29,

**22 Oct**

**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>

**24-26 Oct**

**SOLAR MAGNETIZED "TORNADOES:" RELATION TO FILAMENTS**

Yang Su<sup>1</sup>, Tongjiang Wang<sup>2,3</sup>, Astrid Veronig<sup>1</sup>, Manuela Temmer<sup>1</sup>, and Weiqun Gan  
2012 ApJ 756 L41

**25 Oct**

**On the Estimation of the SHARP Parameter MEANALP from AIA Images Using Deep Neural Networks**

[B. Benson](#), [W. D. Pan](#), [A. Prasad](#), [G. A. Gary](#) & [Q. Hu](#)

[Solar Physics](#) volume 296, Article number: 163 (2021)

<https://link.springer.com/content/pdf/10.1007/s11207-021-01912-3.pdf>

<https://doi.org/10.1007/s11207-021-01912-3>

**Determining the parameter for the linear force-free magnetic field model with multi-dipolar configurations using deep neural networks**

B.[Benson](#)<sup>1</sup> [W.David Pan](#)<sup>1</sup>[G.Allen Gary](#)<sup>2</sup>[Q.Hu](#)<sup>2</sup>[T.Staudinger](#)

[Astronomy and Computing](#) Volume 26, January 2019, Pages 50-60

<https://www.sciencedirect.com/science/article/pii/S2213133718301148>

**Determination of Linear Force-Free Magnetic Field Constant Alpha Using Deep Learning**

Bernard **Benson**, Zhuocheng Jiang, W. David Pan, G. Allen Gary and Qiang Hu

CSCI-ISAI 2017, Las Vegas Conference 2017

<http://www.ece.uah.edu/~dwpan/papers/CSCI17.pdf>

**A Magnetic Bald-Patch Flare in Solar Active Region 11117**

Chaowei **Jiang**, Xueshang Feng, S. T. Wu, Qiang Hu

RAA 2017

<https://arxiv.org/pdf/1705.10493.pdf>

**Analyses of the Photospheric Magnetic Dynamics in Solar Active Region 11117 Using an Advanced CESE-MHD Model**

Chaowei **Jiang**<sup>1,2\*</sup>, Shi T. Wu<sup>2,3\*</sup> and Xueshang Feng<sup>1</sup>

Front. Astron. Space Sci., 10 May 2016 | [http://doi.org.secure.sci-](http://doi.org.secure.sci-hub.cc/10.3389/fspas.2016.00016)

[hub.cc/10.3389/fspas.2016.00016](http://doi.org.secure.sci-hub.cc/10.3389/fspas.2016.00016)

<http://journal.frontiersin.org/sci-hub.cc/article/10.3389/fspas.2016.00016/full>

## STUDY OF THE THREE-DIMENSIONAL CORONAL MAGNETIC FIELD OF ACTIVE REGION 11117 AROUND THE TIME OF A CONFINED FLARE USING A DATA-DRIVEN CESE-MHD MODEL

Chaowei **Jiang**, Xueshang Feng, S. T. Wu, and Qiang Hu  
2012 ApJ 759 85

**26 Oct, 08:30** – необычная эрупция S/SW кольцевой структуры, видимо, на месте плохо видимого волокна; SDO, 193 A; приличный SW CME

### CME arrival prediction using ensemble modeling based on heliospheric imaging observations

Tanja **Amerstorfer**, [Jürgen Hinterreiter](#), [Martin A. Reiss](#), [Christian Möstl](#), [Jackie A. Davies](#), [Rachel L. Bailey](#), [Andreas J. Weiss](#), [Mateja Dumbović](#), [Maike Bauer](#), [Ute V. Amerstorfer](#), [Richard A. Harrison](#)  
Space Weather **2020**  
<https://arxiv.org/pdf/2008.02576.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>

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

Nishtha **Sachdeva**  
Ph.D. **Thesis** **2019**  
<https://arxiv.org/pdf/1907.12673.pdf>

### Characteristics of ephemeral coronal holes

Andrew R. **Inglis**, [Rachel E. O'Connor](#), [W. Dean Pesnell](#), [Michael S. Kirk](#), [Nishu Karna](#)  
ApJ **2019**  
<https://arxiv.org/pdf/1906.01757.pdf>

### 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>

### Evolution and Consequences of Coronal Mass Ejections in the Heliosphere

[Wageesh Mishra](#)  
The **thesis** was submitted in Mar 2015 to MLS university, Udaipur, for which the university granted the degree in Jan 2016  
<https://arxiv.org/pdf/2204.09879.pdf>

### Pseudostreamers as the source of a separate class of solar coronal mass ejections, **Wang**, Y-M.

(2015), *Astrophys. J. Lett.*, 803. L12.  
<http://iopscience.iop.org/article/10.1088/2041-8205/803/1/L12/pdf>

### Forward Modeling of Synthetic EUV/SXR Emission from Solar Coronal Active Regions: Case of AR 11117

V. S. **Airapetian**, J. Allred

18th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun Proceedings of Lowell Observatory (9-13 June 2014), Edited by G. van Belle & H. Harris. 2014

<http://arxiv.org/pdf/1409.3866v1.pdf>

### **Estimating the Arrival Time of Earth-directed Coronal Mass Ejections at in Situ Spacecraft Using COR and HI Observations from STEREO**

Wageesh **Mishra** and Nandita Srivastava

2013 ApJ 772 70

<http://arxiv.org/pdf/1306.1397v1.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>

**26-31 Oct**

### **ПОДЪЕМ ВЕЩЕСТВА И ДИНАМИКА МАГНИТНОГО ПОЛЯ В ФОРМИРУЮЩЕЙСЯ ПОЛУТЕНИ СОЛНЕЧНОГО ПЯТНА**

**ГРИГОРЬЕВ** В.М.1, ЕРМАКОВА Л.В.

АЖ Том: 93Номер: 2 Год: 2016 Страницы: 240

### **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>

**27 Oct**

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

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

ApJ 2022

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

### **Deriving Potential Coronal Magnetic Fields from Vector Magnetograms**

Brian T. **Welsch**, George H. Fisher

2015

<http://arxiv.org/pdf/1503.08754v1.pdf>

### **Coronal Magnetic Field Structure and Evolution for Flaring AR 11117 and Its Surroundings**

Tilaye **Tadesse**, T. Wiegelmann, B. Inhester, A. Pevtsov

Solar Physics, November 2012, Volume 281, Issue 1, pp 53-65

**28 Oct**

### **First Determination of 2D Speed Distribution within the Bodies of Coronal Mass Ejections**

Beili **Ying**, [Alessandro Bemporad](#), [Silvio Giordano](#), [Paolo Pagano](#), [Li Feng](#), [Lei Lu](#), [Hui Li](#), [Weiqun Gan](#)

2019

<https://arxiv.org/pdf/1905.11772.pdf>

### **Time-resolved emission from bright hot pixels of an active region observed in the EUV band with SDO/AIA and multi-stranded loop modeling**

E. [Tajfirouze](#), F. Reale, A. Petralia, P. Testa  
2015  
<http://arxiv.org/pdf/1510.07524v1.pdf>

**28 Oct-6 Nov**

**Analysis of a long-duration AR throughout five solar rotations: Magnetic properties and ejective events**

Francisco A. [Iglesias](#), [Hebe Cremades](#), [Luciano A. Merenda](#), [Cristina H. Mandrini](#), [Fernando M. Lopez](#), [Marcelo C. Lopez Fuentes](#), [Ignacio Ugarte-Urra](#)  
Advances in Space Research 2019  
<https://arxiv.org/pdf/1911.01265.pdf>

**31 Oct**

**Revisiting the formation mechanism for coronal rain from previous studies**

[Leping Li](#), [Hardi Peter](#), [Lakshmi Pradeep Chitta](#), [Hongqiang Song](#)  
Research in Astronomy and Astrophysics 2021  
<https://arxiv.org/pdf/2107.01339.pdf>

**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>

**November 2010 forming AR 11123**

**Flare-CME models: an observational perspective**

**Review**

[Schmieder](#) B., [Aulanier](#) G., [Vrsnak](#) B.

Solar Phys. *Solar and Stellar Flares: Observations, Simulations, and Synergies* Volume 290, Issue 12, pp 3457-3486 2015 File  
[http://www.lesia.obspm.fr/perso/guillaume-aulanier/73\\_2015.FlareCmeObs.pdf](http://www.lesia.obspm.fr/perso/guillaume-aulanier/73_2015.FlareCmeObs.pdf)

**2 Nov**

**Intensification of magnetic field in merging magnetic flux tubes driven by supergranular vortical flows**

[Abraham C-L Chian](#), [Erico L Rempel](#), [Suzana S A Silva](#), [Luis Bellot Rubio](#), [Milan Gošić](#)  
Monthly Notices of the Royal Astronomical Society, 518, Issue 4, February 2023, Pages 4930–4942,  
<https://doi.org/10.1093/mnras/stac3352>  
<https://watermark.silverchair.com/stac3352.pdf>

**Supergranular turbulence in a quiet Sun: Lagrangian coherent structures**

Abraham C.-L. [Chian](#), [Suzana S. A. Silva](#), [Erico L. Rempel](#), [Milan Gošić](#), [Luis R. Bellot Rubio](#), [Rodrigo A. Miranda](#), [Iker S. Requerey](#)  
MNRAS 488, Issue 3, September 2019, Pages 3076–3088, 2019  
<sci-hub.se/10.1093/mnras/stz1909>  
<https://arxiv.org/pdf/1904.08472.pdf>

**Association of 3He-Rich Solar Energetic Particles with Large-Scale Coronal Waves**

Radoslav [Bucik](#), Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck  
2016  
<http://arxiv.org/pdf/1609.05346v1.pdf>

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

M. E. [Wiedenbeck](#)<sup>1</sup>, G. M. Mason<sup>2</sup>, C. M. S. Cohen<sup>3</sup>, N. V. Nitta<sup>4</sup>, R. Gómez-Herrero<sup>5,6</sup>, and D. K. Haggerty  
2013 ApJ 762 54

**2-3 Nov**

### **The solar internetwork. III. Unipolar versus bipolar flux appearance**

[Milan Gošić](#), [Luis R. Bellot Rubio](#), [Mark C. M. Cheung](#), [David Orozco Suárez](#), [Yukio Katsukawa](#), [Jose Carlos Del Toro Iniesta](#)

ApJ 2021

<https://arxiv.org/pdf/2111.03208.pdf>

### **Photospheric downflows observed with SDO/HMI, HINODE, and an MHD simulation**

T. [Roudier](#)<sup>1</sup>, M. Švanda<sup>2,3</sup>, J. M. Malherbe<sup>4,5</sup>, J. Ballot<sup>1</sup>, D. Korda<sup>2</sup> and Z. Frank<sup>6</sup>

A&A 647, A178 (2021)

<https://www.aanda.org/articles/aa/pdf/2021/03/aa40172-20.pdf>

### **Persistent magnetic vortex flow at a supergranular vertex**★

Iker S. [Requerey](#)<sup>1,2</sup>, Basilio Ruiz Cobo<sup>1,3</sup>, Milan Gošić<sup>4,5</sup> and Luis R. Bellot Rubio

A&A 610, A84 (2018)

<https://www.aanda.org/articles/aa/pdf/2018/02/aa31842-17.pdf>

### **The Solar Internetwork. I. Contribution to the Network Magnetic Flux**

Milan [Gošić](#), Luis R. Bellot Rubio, David Orozco Suárez, Yukio Katsukawa, Jose Carlos Del Toro Iniesta

ApJ, 2014

**3 Nov** **залимбовый пересвет** 12:16  $\leftarrow$ 16s 8s $\rightarrow$   $B=71/278=0.26$   
12:11 – No; 12:21 =  $33*2/278 < 0.26$

**3 Nov**

### **EUV imaging and spectroscopy for improved space weather forecasting**

**Review**

Leon [Golub](#)<sup>1\*</sup>, Peter Cheimets<sup>1</sup>, Edward E. DeLuca<sup>1</sup>, Chad A. Madsen<sup>1</sup>, Katharine K. Reeves<sup>1</sup>, Jenna Samra<sup>1</sup>, Sabrina Savage<sup>2</sup>, Amy Winebarger<sup>2</sup> and Alexander R. Brucoleri<sup>3</sup>

J. Space Weather Space Clim. 2020, 10, 37

<https://doi.org/10.1051/swsc/2020040>

<https://www.swsc-journal.org/articles/swsc/pdf/2020/01/swsc200031.pdf>

### **Investigation into CME Shock Speed Resulting from Type II Solar Radio Bursts**

*A Newly Designed Half-Wave Dipole Antenna (HWDA) Array System*

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

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

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

### **Ensemble Prediction of a Halo Coronal Mass Ejection Using Heliospheric Imagers**

T. [Amerstorfer](#), [C. Möstl](#), [P. Hess](#), [M. Temmer](#), [M. L. Mays](#), [M. Reiss](#), [P. Lowrance](#), [Ph.-A. Bourdin](#)

Space Weather 2017

<https://arxiv.org/pdf/1712.00218.pdf>

### **Forward Modelling of Standing Kink Modes in Coronal Loops II. Applications**

Ding [Yuan](#), Tom Van Doorsselaere

2016

<http://arxiv.org/pdf/1602.07598v1.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    2015    File    Open Access

**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](http://hesperia.gsfc.nasa.gov/senior_review/2015/senior_review_proposal_2015.pdf)

**Kelvin-Helmholtz instability on coronal mass ejecta in the lower corona**

I. **Zhelyazkov**, T. V. Zaqarashvili, R. Chandra

2014

<http://arxiv.org/pdf/1411.6621v1.pdf>

**Initiation of CME event observed on November 3, 2010: Multi-wavelength Perspective**

Sargam **Mulay**, Srividya Subramanian, Durgesh Tripathi, Hiroaki Isobe, Lindsay Glesener

ApJ, 2014

<http://arxiv.org/pdf/1407.5837v1.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](http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf)

**Three-Dimensional Evolution of Flux-Rope CMEs and Its Relation to the Local Orientation of the Heliospheric Current Sheet**

A. **Isavnin**, A. Vourlidas, E. K. J. Kilpua

Solar Phys., 2014, File

**Observation of Heating by Flare-accelerated Electrons in a Solar Coronal Mass Ejection**

Lindsay **Glesener**, S?m Krucker, Hazel Bain, Robert Lin

E-print, Dec 2013

**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](http://hesperia.gsfc.nasa.gov/senior_review/2013/senior_review_proposal_2013.pdf), 2013, File

**Multiwavelength Observations of an Eruptive Flare: Evidence for Blast Waves and Break-Out**

Pankaj **Kumar**, D. E. Innes

Solar Physics, April 2013; File

**Multi-thermal dynamics and energetics of a coronal mass ejection in the low solar atmosphere\***

I. G. **Hannah** and E. P. Kontar

A&A 553, A10 (2013); File

**KELVIN-HELMHOLTZ INSTABILITY OF THE CME RECONNECTION OUTFLOW LAYER IN THE LOW CORONA**

Claire **Foullon**<sup>1</sup>, Erwin Verwichte<sup>1</sup>, Katariina Nykyri<sup>2</sup>, Markus J. Aschwanden<sup>3</sup>, and Iain G. Hannah

2013 ApJ 767 170

**Blast-wave and piston shocks connected with the formation and propagation of a coronal mass ejection**

V. G. [Eselevich](#), M. V. Eselevich, I. V. Zimovets  
Astronomy Reports, February **2013**, Volume 57, Issue 2, pp 142-151  
Astronomicheskii Zhurnal, **2013**, Vol. 90, No. 2, pp. 166–176.

### **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.

### **Solar filament eruptions and their physical role in triggering Coronal Mass Ejections**

[Schmieder](#) B., Demoulin P., Aulanier G. **Review**  
E-print, Dec **2012**, **File**; Advances in Space Research, **2013**

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

X. [Cheng](#)<sup>1,2,3</sup>, J. Zhang<sup>2</sup>, S. H. Saar<sup>4</sup>, and M. D. Ding  
**2012** ApJ 761 62

### **First observation of a transverse vertical oscillation during the formation of a hot post-flare loop**

R. S. [White](#), E. Verwichte and C. Foullon  
A&A 545, A129 (**2012**)

### **Spatially resolved observations of a split-band coronal type-II radio burst**

I. [Zimovets](#), N. Vilmer, A. C.-L. Chian, I. Sharykin, A. Struminsky  
E-print, Aug **2012**; A&A

### **LOW-ALTITUDE RECONNECTION INFLOW-OUTFLOW OBSERVATIONS DURING A 2010 NOVEMBER 3 SOLAR ERUPTION**

Sabrina L. [Savage](#)<sup>1</sup>, Gordon Holman<sup>1</sup>, Katharine K. Reeves<sup>2</sup>, Daniel B. Seaton<sup>3</sup>, David E. McKenzie<sup>4</sup>, and Yang Su  
**2012** ApJ 754 13

### **RADIO IMAGING OF SHOCK-ACCELERATED ELECTRONS ASSOCIATED WITH AN ERUPTING PLASMOID ON 2010 NOVEMBER 3**

H. M. [Bain](#), Säm Krucker<sup>1</sup>, L. Glesener, and R. P. Lin  
**2012** ApJ 750 44

### **Observing Flux Rope Formation During the Impulsive Phase of a Solar Eruption**

X. [Cheng](#), J. Zhang, Y. Liu, M. D. Ding  
E-print, March **2011**; ApJ Letters **2011** 732 L25, **File**

### **MAGNETIC KELVIN–HELMHOLTZ INSTABILITY AT THE SUN**

Claire [Foullon](#)<sup>1</sup>, Erwin Verwichte<sup>1</sup>, Valery M. Nakariakov<sup>1,2</sup>, Katariina Nykyri<sup>3</sup>, and Charles J. Farrugia<sup>4</sup>  
Astrophysical Journal Letters, 729:L8 (4pp), **2011** March  
*at the flank of the CME ejecta*

**3-7 Nov** – Несколько вспышек балла С и до М5 из SE области без корональных волн и почти без CMEs, т.е. без эруптивных проявлений

[http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/But\\_there\\_was\\_a\\_bigger\\_one](http://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/But_there_was_a_bigger_one)

### **ATMOSPHERIC IMAGING ASSEMBLY OBSERVATIONS OF HOT FLARE PLASMA**

Katharine K. [Reeves](#) and Leon Golub  
**2011** ApJ 727 L52; **File**

**4 Nov**

### **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>

### **Plasma Upflows and Microwave Emission in Hot Supra-arcade Structure Associated with an M1.6 Limb Flare**

S. **Kim**, K. Shibasaki, H.-M. Bain, and K.-S. Cho

**2014** ApJ 785 106

### **Three-Dimensional Evolution of Erupted Flux Ropes from the Sun ( $2 - 20 R_{\odot}$ ) to 1 AU**

A. **Isavnin**, A. Vourlidas, E. K. J. Kilpua

Solar Physics

May **2013**, Volume 284, Issue 1, pp 203-215; **File**

### **SLOW MAGNETOACOUSTIC OSCILLATIONS IN THE MICROWAVE EMISSION OF SOLAR FLARES**

S. Kim<sup>1</sup>, V. M. Nakariakov<sup>2,3</sup>, and K. Shibasaki

**2012** ApJ 756 L36

**5 Nov** - 00:16 – M1.6 вспышка, **пересвет** на STEREO-B,  $B=17,5 \cdot 2/277=0,13$   $\leftarrow$  16 s  
8 s  $\rightarrow$  **00:11**  $L/R_s=10 \cdot 2/277=0,072$

13:41 – M1.0 вспышка, **пересвет** на STEREO-B,  $B=9 \cdot 2/277=0,0649$

**5 Nov**

### **Hot X-ray Onsets of Solar Flares**

Hugh S. **Hudson**, Paulo J. A. Simoes, Lyndsay Fletcher, Laura A. Hayes, Iain G. Hannah

MNRAS **2020**

<https://arxiv.org/pdf/2007.05310.pdf>

### **Generic Magnetic Field Intensity Profiles of Interplanetary Coronal Mass Ejections at Mercury, Venus, and Earth From Superposed Epoch Analyses**

Miho **Janvier**, Reka M. Winslow, Simon Good, Elise Bonhomme, Pascal Démoulin, Sergio Dasso, Christian Möstl, Noé Lugaz, Tanja Amerstorfer, Elie Soubrié, Peter D. Boakes

JGR Volume 124, Issue 2, February **2019**, Pages 812-836

[sci-hub.tw/10.1029/2018JA025949](http://sci-hub.tw/10.1029/2018JA025949)

<https://arxiv.org/pdf/1901.09921.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>

### **Extremely Large EUV Late Phase of Solar Flares**

Kai **Liu**<sup>1,2</sup>, Yuming Wang<sup>1</sup>, Jie Zhang<sup>3</sup>, Xin Cheng<sup>4</sup>, Rui Liu<sup>1</sup>, and Chenglong Shen

**2015** ApJ 802 35

<http://arxiv.org/pdf/1504.05340v1.pdf>

**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>

## EMERGING DIMMINGS OF ACTIVE REGIONS OBSERVED BY THE SOLAR DYNAMICS OBSERVATORY

Jun [Zhang](#)<sup>1</sup>, Shuhong Yang<sup>1</sup>, Yang Liu<sup>2</sup>, and Xudong Sun

2012 ApJ 760 L29

**5-8 Nov**

## Radial Evolution of Magnetic Field Fluctuations in an Interplanetary Coronal Mass Ejection Sheath

S. W. [Good](#)<sup>1</sup>, M. Ala-Lahti<sup>1</sup>, E. Palmerio<sup>1,2</sup>, E. K. J. Kilpua<sup>1</sup>, and A. Osmane<sup>1</sup>

2020 ApJ 893 110

<https://arxiv.org/pdf/2003.05760.pdf>

<https://doi.org/10.3847/1538-4357/ab7fa2>

## 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>

**6 Nov** - 15:41 – M5.4 вспышка, **пересвет** на STEREO-B,  $B=31^*2/277=0.22$

**6 Nov**

## 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 and numerical modeling of chromospheric evaporation during the impulsive phase of a solar flare

Shinsuke [Imada](#), Izumi Murakami, Tetsuya Watanabe

Physics of Plasma 2015

<http://arxiv.org/pdf/1506.04674v1.pdf>

## Qualities of Sequential Chromospheric Brightenings Observed in H $\alpha$ and UV Images

Michael S. [Kirk](#)<sup>1,2</sup>, K. S. Balasubramaniam<sup>2,3</sup>, Jason Jackiewicz<sup>2</sup>, and R. T. James McAteer

2014 ApJ 796 78

<http://arxiv.org/pdf/1411.4069v1.pdf>

## Failed filament eruption inside a coronal mass ejection in active region 11121\*

D. [Kuridze](#)<sup>1,4</sup>, M. Mathioudakis<sup>1</sup>, A. F Kowalski<sup>2</sup>, P. H. Keys<sup>1</sup>, D. B. Jess<sup>1,5</sup>, K. S. Balasubramaniam<sup>3</sup> and F. P. Keenan

A&A 552, A55 (2013)

**10 Nov**

An aurora display

## Discoveries and Concepts: The Sun's Role in Astrophysics

**Review**

Jack B. Zirker<sup>1</sup>, Oddbjørn Engvold<sup>2</sup>

In: *The Sun as a Guide to Stellar Physics* **Book**

Eds. Oddbjørn Engvold, Jean-Claude Vial, and Andrew Skumanich  
Elsevier, November **2018**  
<https://www.sciencedirect.com/book/9780128143346/the-sun-as-a-guide-to-stellar-physics>

### **Radial Flow Pattern of a Slow CME**

Li **Feng**, Bernd Inhester, Weiqun Gan  
ApJ **2015**  
<http://arxiv.org/pdf/1503.08502v1.pdf>

### **Origin of Macrospicule and Jet in Polar Corona by A Small-scale Kinked Flux-Tube**

**Kayshap**, P.; Srivastava, A. K.; Murawski, K.; Tripathi, D.  
E-print, May **2013**; ApJL

### **10-15 Nov**

#### **Analysis of a long-duration AR throughout five solar rotations: Magnetic properties and ejective events**

Francisco A. **Iglesias**, **Hebe Cremades**, **Luciano A. Merenda**, **Cristina H. Mandrini**, **Fernando M. Lopez**, **Marcelo C. Lopez Fuentes**, **Ignacio Ugarte-Urra**  
Advances in Space Research **2019**  
<https://arxiv.org/pdf/1911.01265.pdf>

**11 Nov** – Серия импульсных вспышек класса C из южного/центрального сектора диска, SDO

#### **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>

#### **Homologous large-amplitude Nonlinear fast-mode Magnetosonic Waves Driven by Recurrent Coronal Jets**

Yuandeng **Shen**, **Yu Liu**, **Ying D. Liu**, **Jiangtao Su**, **Zehao Tang**, **Yuhu Miao**  
ApJ **2018**  
<https://arxiv.org/pdf/1805.12303.pdf>

#### **MAGNETO-FRICTIONAL MODELING OF CORONAL NONLINEAR FORCE-FREE FIELDS. II. APPLICATION TO OBSERVATIONS**

Y. **Guo**<sup>1,2</sup>, C. Xia<sup>2</sup>, and R. Keppens<sup>1</sup>  
**2016** ApJ 828 83

#### **Coronal mass ejections from the same active region cluster: Two different perspectives**

Hebe **Cremades**, Cristina Hemilse Mandrini, Brigitte Schmieder, Alberto Maximiliano Crescitelli  
Solar Phys **2015**  
<http://arxiv.org/pdf/1505.01384v1.pdf>

#### **Solar science with the Atacama Large Millimeter/submillimeter Array - A revolutionizing new view of our Sun**

##### **Review**

S. **Wedemeyer**, **T. Bastian**, **R. Brajsa**, **M. Barta**, **H. Hudson**, **G. Fleishman**, **M. Loukitcheva**, **B. Fleck**, **E. P. Kontar**, **B. De Pontieu**, **S. K. Tiwari**, **Y. Kato**, **R. Soler**, **P. Yagoubov**, **J. H. Black**, **P. Antolin**, **E. Scullion**, **S. Gun'ar**, **N. Labrosse**, **A. O. Benz**, **H.-G. Ludwig**, **P. Hauschildt**, **J. G. Doyle**, **V. M. Nakariakov**, **S. K. Solanki**, **S. M. White**, **T. Ayres**, **P. Heinzel**, **M. Karlicky**, **T. Van Doorselaere**, **D. Gary**, **C. E. Alissandrakis**, **A. Nindos**, **L. Rouppe van der Voort**, **M. Shimojo**, **T. Zaqarashvili**, **E. Perez**  
Space Sci. Rev. **2015**  
<http://arxiv.org/pdf/1504.06887v2.pdf>

## **H $\alpha$ spectroscopy and multi-wavelength imaging of a solar flare caused by filament eruption**

Z. **Huang**, M. S. Madjarska, K. Koleva, J. G. Doyle, P. Duchlev, M. Dechev, and K. Reardon  
E-print, May 2014; A&A  
<http://star.arm.ac.uk/preprints/2014/652.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](http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf)

## **Topological Analysis of Emerging Bipole Clusters Producing Violent Solar Events**

C.H. **Mandrini**, B. Schmieder, P. D?moulin, Y. Guo, G. Cristiani  
E-print, Dec 2013; Solar Phys.

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

M. E. **Wiedenbeck**<sup>1</sup>, G. M. Mason<sup>2</sup>, C. M. S. Cohen<sup>3</sup>, N. V. Nitta<sup>4</sup>, R. Gómez-Herrero<sup>5,6</sup>, and D. K Haggerty  
2013 ApJ 762 54

## **HOMOLOGOUS EXTREME ULTRAVIOLET WAVES IN THE EMERGING FLUX REGION OBSERVED BY THE SOLAR DYNAMICS OBSERVATORY**

Ruisheng **Zheng**, Yunchun Jiang, Jiayan Yang, Yi Bi, Junchao Hong, B. Yang and Dan Yang  
2012 ApJ 747 67, File

**12 Nov**, 01:40 – Южная эрупция (волокна); **хорошо видна на SDO\_304.**

Импульсная C3 вспышка, CME, III, II тип

-- November 12: A partial halo CME was observed over the southern hemisphere following a filament eruption beginning at 16h UTC (the eruption was probably triggered by a C4.6 flare in region 11123). The CME was unimpressive and it is uncertain if it will reach Earth at all.

## **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>

## **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://www.lmsal.com/nitta/publ/SP_typeII_20140904.pdf)  
<http://arxiv.org/pdf/1409.4754v1.pdf> File

## **Kinematic Properties of Slow ICMEs and an Interpretation of a Modified Drag Equation for Fast and Moderate ICMEs**

T. **Iju**, M. Tokumaru, K. Fujiki  
Solar Physics, June 2014, Volume 289, Issue 6, pp 2157-2175  
<http://arxiv.org/pdf/1401.1724v1.pdf>

## **Calibration and Data Processing for a Chinese Spectral Radioheliograph in the Decimeter Wave Range**

W. **Wang**, Y. Yan, D. Liu, Z. Chen, C. Su, F. Liu, L. Geng, L. Chen, and J. Du

Publ. Astron. Soc. Japan 65, SP1, S18 [5 pages] (2013)

<http://pasj.asj.or.jp/v65/sp1/65S018/65S018.pdf>

### **Negative bursts**

Grechnev et al., PASJ, 2013

### **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.

**13 Nov**, ~05 UT: Эрупция центрального/северного волокна; See Events

### **Interplanetary Type III Bursts and Electron Density Fluctuations in the Solar Wind**

V. **Krupar**, M. Maksimovic, E. P. Kontar, A. Zaslavsky, O. Santolik, J. Soucek, O. Kruparova, J. P. Eastwood, and A. Szabo  
2018 ApJ 857 82

<http://sci-hub.tw/http://iopscience.iop.org/0004-637X/857/2/82/>

### **CHALLENGING SOME CONTEMPORARY VIEWS OF CORONAL MASS EJECTIONS. I. THE CASE FOR BLAST WAVES**

T. A. **Howard**<sup>1</sup> and V. J. Pizzo

2016 ApJ 824 92 **File**

### **Active region upflows: 1. Multi-instrument observations**

K. **Vanninathan**, M.S. Madjarska, K. Galsgaard, Z. Huang, J.G. Doyle  
A&A **2015**

<http://arxiv.org/pdf/1509.05624v1.pdf>

### **Active region upflows: 2. Data driven MHD modeling**

K. **Galsgaard**, M. S. Madjarska, K. Vanninathan, Z. Huang, M. Presmann  
ApJ (A&A) **2015**

<http://arxiv.org/pdf/1509.05639v1.pdf>

### **Disappearance of a coronal hole induced by a filament activation**

Ma **Lin**, Qu Zhong-Quan, Yan Xiao-Li, Xue Zhi-Ke

Research in Astron. & Astrophys., **2014**

<http://arxiv.org/pdf/1404.7223v1.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](http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf)

### **AN EXTREME-ULTRAVIOLET WAVE ASSOCIATED WITH A SURGE**

Ruisheng **Zheng**, Yunchun Jiang, Jiayan Yang, Yi Bi, Junchao Hong, Bo Yang, and Dan Yang

2013 ApJ 764 70

**14 Nov**

### **Association of 3He-Rich Solar Energetic Particles with Large-Scale Coronal Waves**

Radoslav **Bucik**, Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck

2016

<http://arxiv.org/pdf/1609.05346v1.pdf>

**14-18 Nov**

**Three-dimensional magnetic structure of a sunspot: comparison of the photosphere and upper chromosphere**

Jayant **Joshi**, Andreas Lagg, Johann Hirzberger, Sami K. Solanki

A&A 2017

<https://arxiv.org/pdf/1705.08404.pdf>

**Case studies of multi-day  $^3\text{He}$ -rich solar energetic particle periods**

Nai-hwa **Chen**, Radoslav. Bucik, Davina. E. Innes, Glenn. M. Mason

A&A 2015

<http://arxiv.org/pdf/1506.04369v1.pdf>

**15 Nov**

**Filament Eruption with a Deflection of Nearly 90 Degrees**

Jiayan **Yang**<sup>1,2</sup>, Jun Dai<sup>1,2</sup>, Hechao Chen<sup>1,2</sup>, Haidong Li<sup>1</sup>, and Yunchun Jiang

2018 ApJ 862 86

<http://sci-hub.tw/10.3847/1538-4357/aaccfd>

**16 Nov**

**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>

**Full Sun monochromatic images**

Ignacio **Ugarte-Urra** and Harry Warren

Hinode EIS science nugget 28 Feb 2011

<http://msslxr.mssl.ucl.ac.uk:8080/SolarB/eisnuggets.jsp>

**16-28 Nov**

**IS ACTIVE REGION CORE VARIABILITY AGE DEPENDENT?**

Ignacio **Ugarte-Urra**<sup>1</sup> and Harry P. Warren

2012 ApJ 761 21

**17 Nov**

**Analysis of a long-duration AR throughout five solar rotations: Magnetic properties and ejective events**

Francisco A. **Iglesias**, [Hebe Cremades](#), [Luciano A. Merenda](#), [Cristina H. Mandrini](#), [Fernando M. Lopez](#), [Marcelo C. Lopez Fuentes](#), [Ignacio Ugarte-Urra](#)

Advances in Space Research 2019

<https://arxiv.org/pdf/1911.01265.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](http://sci-hub.se/10.1007/s11207-019-1448-0)

**Association of  $^3\text{He}$ -Rich Solar Energetic Particles with Large-Scale Coronal Waves**

Radoslav **Bucik**, Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck

2016

<http://arxiv.org/pdf/1609.05346v1.pdf>

**18-23 Nov**

**Cloud model inversions of strong chromospheric absorption lines using principal component analysis**

Ekaterina **Dineva** (1 and 2), [Meetu Verma](#) (1), [Sergio Javier González Manrique](#) (3), [Pavol Schwartz](#) (3), [Carsten Denker](#) (1)

Astronomische Nachrichten/Astronomical Notes    **2020**

<https://arxiv.org/pdf/1912.10476.pdf>

**21 Nov**, ~16 UT: NW limb eruption at SDO 304 A

**24 Nov** – several near-limb eruptions; >20 UT серьезная NW дисковая эрупция at SDO 304 A

**Pseudostreamers as the source of a separate class of solar coronal mass ejections,**

[Wang](#), Y-M.

(2015), Astrophys. J. Lett., 803. L12.

<http://iopscience.iop.org/article/10.1088/2041-8205/803/1/L12/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 Nov** – продолжение NW эрупции(й)

**FIRST SDO/AIA OBSERVATION OF SOLAR PROMINENCE FORMATION FOLLOWING AN ERUPTION: MAGNETIC DIPS AND SUSTAINED CONDENSATION AND DRAINAGE**

Wei **Liu**<sup>1,2</sup>, Thomas E. Berger<sup>1</sup> and B. C. Low

**2012** ApJ 745 L21

**26 Nov**

**Revisiting the formation mechanism for coronal rain from previous studies**

[Leping Li](#), [Hardi Peter](#), [Lakshmi Pradeep Chitta](#), [Hongqiang Song](#)

Research in Astronomy and Astrophysics    **2021**

<https://arxiv.org/pdf/2107.01339.pdf>

**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](http://sun.stanford.edu/~weiliu/research/publications/2013/2014IAUS_Liu_Berger_Low_funnel-prom.pdf)

**27 Nov**

**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>

**EMERGING DIMMINGS OF ACTIVE REGIONS OBSERVED BY THE SOLAR DYNAMICS OBSERVATORY**

Jun **Zhang**<sup>1</sup>, Shuhong Yang<sup>1</sup>, Yang Liu<sup>2</sup>, and Xudong Sun  
2012 ApJ 760 L29

**27-30 Nov**

**Observations and modeling of the solar flux emergence** **Review**

Shin **TORIUMI**

Publ. Astron. Soc. Japan (2014) 66 (SP1), S6 (1–10)

<http://pasj.oxfordjournals.org/content/66/SP1/S6.full.pdf+html>

**29 Nov** – >01 UT: центральная/северная эрупция

**Three-Dimensional Reconstruction and Thermal Modelling of Observed Loops**

[F.A. Nuevo](#), [C. Mac Cormack](#), [M. López Fuentes](#), [A.M. Vásquez](#), [C.H. Mandrini](#)

Solar Phys. 2020

<https://arxiv.org/pdf/2011.09575.pdf>

**Association of 3He-Rich Solar Energetic Particles with Large-Scale Coronal Waves**

Radoslav **Bucik**, Davina E. Innes, Glenn M. Mason, Mark E. Wiedenbeck

2016

<http://arxiv.org/pdf/1609.05346v1.pdf>

**The multi-thermal and multi-stranded nature of coronal rain**

P. **Antolin**, [G. Vissers](#), [T. M. D. Pereira](#), [L. Rouppe van der Voort](#), [E. Scullion](#)

ApJ 2015

<http://arxiv.org/pdf/1504.04418v1.pdf>

**30 Nov** – >17 UT: NE эрупция, CME хорошо виден на STEREO-A/COR2

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

B. M. **Bein**<sup>1</sup>, M. Temmer<sup>1</sup>, A. Vourlidas<sup>2</sup>, A. M. Veronig<sup>1</sup>, and D. Utz

2013 ApJ 768 31; **File**

**Mass Loss Evolution in the EUV Low Corona from SDO/AIA Data**

Fernando M. **López**, Hebe Cremades, Federico A. Nuevo, [Laura A. Balmaceda](#), [Alberto A. Vásquez](#)

Solar Phys. 2016

<https://arxiv.org/pdf/1611.00849v1.pdf>

**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 Dec**

**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>

## **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](http://sun.stanford.edu/~weiliu/research/publications/2014/2014SolPhy_Liu_Ofman_SDO-EUV-wave-review.pdf)

## **A POSSIBLE DETECTION OF A FAST-MODE EXTREME ULTRAVIOLET WAVE ASSOCIATED WITH A MINI CORONAL MASS EJECTION OBSERVED BY THE SOLAR DYNAMICS OBSERVATORY**

Ruisheng [Zheng](#), Yunchun Jiang, Junchao Hong, Jiayan Yang, Yi Bi, Liheng Yang and Dan Yang  
2011 ApJ 739 L39, [File](#)

**2 Dec**

## **Coronal upflows from edges of an active region observed with EUV Imaging Spectrometer onboard Hinode**

Naomasa [Kitagawa](#)

PhD thesis, 2014

<http://arxiv.org/pdf/1411.4742v1.pdf>

**4 Dec**

## **Full Sun monochromatic images**

Ignacio [Ugarte-Urra](#) and Harry Warren

Hinode EIS science nugget 28 Feb 2011

<http://msslxr.mssl.ucl.ac.uk:8080/SolarB/eisnuggets.jsp>

**! 6 Dec** – >16 UT: [эрупция длиннущего ES волокна на SDO 304 A;](#)

[возмущение видно от из-за лимба до центра диска;](#)

[крупный CME на STEREO/COR2, LASCO; See Events!](#)

[http://www.lmsal.com/solarsoft/last\\_events/gev\\_20101206\\_1400.html](http://www.lmsal.com/solarsoft/last_events/gev_20101206_1400.html)

## **Kinematical evolution of large-scale EUV waves in the solar corona**

G. [Mann](#), A. Warmuth and H. Önel

A&A 675, A129 (2023)

<https://www.aanda.org/articles/aa/pdf/2023/07/aa46378-23.pdf>

## **Alternating Twist Along an Erupting Prominence**

W. T. [Thompson](#)

Solar Physics, April 2013, Volume 283, Issue 2, pp 489-504

## **ROTATING MOTIONS AND MODELING OF THE ERUPTING SOLAR POLAR-CROWN PROMINENCE ON 2010 DECEMBER 6**

Yingna [Su](#) and Adriaan van Ballegooijen

2013 ApJ 764 91

## **OBSERVATIONS AND MAGNETIC FIELD MODELING OF A SOLAR POLAR CROWN PROMINENCE**

Yingna [Su](#) and Adriaan van Ballegooijen

2012 ApJ 757 168

**8 Dec** - >09 UT: Слабый LDE и эрупция из NE области, CME; See Events!

## **Local sunspot oscillations and umbral dots**

[Y. Zhugzhda](#), [R. Sych](#)

Research in Astronomy and Astrophysics (RAA)      **2018**

<https://arxiv.org/pdf/1804.03874.pdf>

### **Probing the Sunspot Atmosphere with Three-Minute Oscillations**

Anastasiia **Deres**, Sergey Anfinogentov

*Solar Physics* January **2018**, 293:2

<https://link.springer.com/content/pdf/10.1007%2Fs11207-017-1222-0.pdf>

### **Fine wave structure of umbral flashes**

R. **Sych**, **M. Wang**

A&A **2017**

<https://arxiv.org/pdf/1710.08100.pdf>

### **MHD waves in sunspots**

**Review**

Robert **Sych**

Chapter in AGU Monograph **2015**

<http://arxiv.org/pdf/1509.06466v1.pdf>

### **Wave dynamics in a sunspot umbra**

**Sych**, R., Nakariakov, V.M.

A&A, **2014**

[http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/sych\\_nakariakov\\_2014\\_rev3\\_140814\\_Print.pdf](http://www2.warwick.ac.uk/fac/sci/physics/research/cfsa/people/valery/research/eprints/sych_nakariakov_2014_rev3_140814_Print.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>

### **Multi-height observations of magnetoacoustic cut-off frequency in a sunspot atmosphere**

D. **Yuan**<sup>1,2</sup>, R. Sych<sup>2,3</sup>, V. E. Reznikova<sup>4</sup> and V. M. Nakariakov

A&A 561, A19 (**2014**)

### **THREE-MINUTE OSCILLATIONS ABOVE SUNSPOT UMBRA OBSERVED WITH THE SOLAR DYNAMICS OBSERVATORY/ATMOSPHERIC IMAGING ASSEMBLY AND NOBEYAMA RADIOHELIOGRAPH**

V. E. **Reznikova**<sup>1</sup>, K. Shibasaki<sup>1</sup>, R. A. Sych<sup>2,3</sup> and V. M. Nakariakov

**2012** ApJ 746 119

**10 Dec**

### **Quantification of the Writhe Number of the Evolution of Solar Filament Axes**

Zhenjun **Zhou** (周振军)<sup>1,2,3,4</sup>, Chaowei Jiang<sup>5</sup>, Hongqiang Song<sup>6</sup>, Yuming Wang<sup>3</sup>, Yongqiang Hao<sup>1</sup>, and Jun Cui<sup>1</sup>

**2023** ApJ 944 175

<https://iopscience.iop.org/article/10.3847/1538-4357/acb6f8/pdf>

### **The dynamics of 3-minute wavefronts and their relation to sunspot magnetic fields**

**Robert Sych**, **David B. Jess**, **Jiangtao Su**

Royal Society Philosophical Transactions A **2020**

<https://arxiv.org/pdf/2007.09369.pdf>

### **The Reversal of a Solar Prominence Rotation about Its Ascending Direction during a Failed Eruption**

H. Q. **Song**<sup>1</sup>, Z. J. Zhou<sup>2</sup>, L. P. Li<sup>3</sup>, X. Cheng<sup>4</sup>, J. Zhang<sup>5</sup>, Y. Chen<sup>1</sup>, C. X. Chen<sup>1</sup>, X. W. Ma<sup>1</sup>, B. Wang<sup>1</sup>, and R. S. Zheng<sup>1</sup>

**2018** ApJL 864 L37

<http://sci-hub.tw/http://iopscience.iop.org/article/10.3847/2041-8213/aade49/meta>

## **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>

### **11 Dec**

#### **Direct observations of different sunspot waves influenced by umbral flashes**

Aishawnnya **Sharma**, **G. R. Gupta**, **Durgesh Tripathi**, **V. Kashyap**, **Amit Pathak**

ApJ 2017

<https://arxiv.org/pdf/1710.08438.pdf>

#### **Spectroscopic Observations of a Coronal Loop: Basic Physical Plasma Parameters Along the Full Loop Length**

G. R. **Gupta**, Durgesh Tripathi, Helen E. Mason

ApJ 2015

<http://arxiv.org/pdf/1412.7428v1.pdf>

**12 Dec** - >04 UT: Слабый LDE и SW эрупция аркады над каналом волокна с продолжением за SW-лимб (STEREO-A), крупный CME; See Events!

**Хороший фильм LASCO/C3 для иллюстрации трех CMEs сразу (см. Chains)!**

#### **Forecasting the Structure and Orientation of Earthbound Coronal Mass Ejections**

E. K. J. **Kilpua**, **N. Lugaz**, **L. Mays**, **M. Temmer**

Space Weather 17 2019

<https://doi.org/10.1029/2018SW001944>

[sci-hub.se/10.1029/2018SW001944](https://doi.org/10.1029/2018SW001944)

Space Weather Quarterly 16, issue 1, 6 -30 2019

<https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1002/swq.21>

#### **Three-Dimensional Evolution of Flux-Rope CMEs and Its Relation to the Local Orientation of the Heliospheric Current Sheet**

A. **Isavnin**, A. Vourlidas, E. K. J. Kilpua

Solar Phys., 2014, File

**14 Dec** - >15:30: Эрупция NW волокна и LDE C2.3 вспышка в АО 1133; хороший CME

#### **Using SDO/AIA to Understand the Thermal Evolution of Solar Prominence Formation**

Nicholeen M. **Viall**, Therese A. Kucera, and Judith T. Karpen

Astrophysical Journal, 905:15 2020

<https://doi.org/10.3847/1538-4357/abc419>

<https://iopscience.iop.org/article/10.3847/1538-4357/abc419/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. II. THE CASE FOR ABSENT FILAMENTS**

T. A. **Howard**1, 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/>

**15 Dec** – 06:38 – C5.3 вспышка, **пересвет** на STEREO-B,  $B=8*2/281=0,057$

**15 Dec**

### **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>

### **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.

**16 Dec** - >08: Эрупция N волокна, тень на SDO 304 A

**19 Dec**

### **Two Types of Long-duration Quasi-static Evolution of Solar Filaments**

[Chen Xing](#), [Haochuan Li](#), [Bei Jiang](#), [Xin Cheng](#), [M. D. Ding](#)

ApJL 2018

<https://arxiv.org/pdf/1804.01232.pdf>

**21 Dec**, >02: Эрупция NE волокна; видна на фильме Nobe; CME; нет данных SDO, пропуск на PROBA; See Events

### **Predicting the Geoeffectiveness of CMEs Using Machine Learning**

[Andreea-Clara Pricopi](#), [Alin Razvan Paraschiv](#), [Diana Besliu-Ionescu](#), [Anca-Nicoleta Marginean](#)

ApJ 2022

<https://arxiv.org/pdf/2206.11472.pdf>

**22 Dec**

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

Beili [Ying](#)<sup>1</sup>, Alessandro Bemporad<sup>2,1</sup>, Li Feng<sup>1,3</sup>, Nariaki V. Nitta<sup>4</sup>, and Weiqun Gan<sup>1,3</sup>

2023 ApJ 942 3

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

**23 Dec**

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

Nishtha [Sachdeva](#)

Ph.D. Thesis 2019

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

**23-28 Dec**

### **Earth-Affecting Coronal Mass Ejections Without Obvious Low Coronal Signatures**

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

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

**24-26 Dec**

## **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>

**28 Dec**

[http://solar.gmu.edu/heliophysics/index.php/The\\_ISEST\\_Event\\_List](http://solar.gmu.edu/heliophysics/index.php/The_ISEST_Event_List)

**30 Dec**

### **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>

**31 Dec**

### **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 **2015**

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