

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

See STEREO sites: CME Catalog <http://cor1.gsfc.nasa.gov/catalog/>

EUVI flares http://www.lmsal.com/nitta/movies/flares_euvi/

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2 Jan

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

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

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A. Vourlidas¹ _ P. Syntelis^{2;4} _ K. Tsinganos

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M. Kramar^{1,2}, J. Davila², H. Xie^{1,2}, and S. Antiochos

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MULTI-SPACECRAFT OBSERVATIONS OF THE 2008 JANUARY 2 CME IN THE INNER HELIOSPHERE

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Robin C. [Colaninno](#)¹ and Angelos Vourlidas²
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AutoTAB: Automatic Tracking Algorithm for Bipolar Magnetic Regions

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M. E. [Wiedenbeck](#)¹, G. M. Mason², C. M. S. Cohen³, N. V. Nitta⁴, R. Gómez-Herrero^{5,6}, and D. K. Haggerty
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Long- and Short-Term Evolutions of Magnetic Field Fluctuations in High-Speed Streams

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[E. Landi](#), [R. Hutton](#), [T. Brage](#), [W. Li](#)

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[Nathalia Alzate](#), [Huw Morgan](#), [Simone Di Matteo](#)

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[Nathalia Alzate](#), [Huw Morgan](#), [Nicholeen Viall](#), [Angelos Vourlidas](#)

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FIRST DETERMINATION OF THE TRUE MASS OF CORONAL MASS EJECTIONS: A NOVEL APPROACH TO USING THE TWO *STEREO* VIEWPOINTS

Robin C. [Colaninno](#)¹ and Angelos Vourlidas²

Astrophysical Journal, 698:852–858, 2009, File

15 Jan

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Z. [Ning](#)¹, W. Cao, and P. R. Goode

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Juan C. [Martínez-Oliveros](#), Charles Lindsey, Stuart D. Bale and Säm Krucker

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AutoTAB: Automatic Tracking Algorithm for Bipolar Magnetic Regions

[Anu Sreedevi](#), [Bibhuti Kumar Jha](#), [Bidya Binay Karak](#), [Dipankar Banerjee](#)
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Robin C. [Colaninno](#) and Angelos Vourlidas²

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Robin C. [Colaninno](#) and Angelos Vourlidas²

Astrophysical Journal, 698:852–858, 2009, File

First Measurements of the Mass of Coronal Mass Ejections from the EUV Dimming Observed with STEREO EUVI A+B Spacecraft

Markus J. [Aschwanden](#), Nariaki V. Nitta, Jean-Pierre Wuelser, James R. Lemen, Anne Sandman, Angelos Vourlidas, Robin C. Colaninno

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On the Expansion Speed of Coronal Mass Ejections: Implications for Self-Similar Evolution

[L. A. Balmaceda](#), [A. Vourlidas](#), [G. Stenborg](#) & [O. C. St. Cyr](#)

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Lucia **Abbo**, Roberto Lionello, Pete Riley, Yi-Ming Wang
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<http://arxiv.org/pdf/1403.7658v1.pdf>

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N. [Lugaz](#)

Solar Phys (2010) 267: 411–429; [File](#)

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The Sun–Earth Connection near Solar Minimum: Placing it into Context

Mario M. [Bisi](#), Barbara J. Thompson, Barbara A. Emery, Sarah E. Gibson, John Leibacher und Lidia van Driel-Gesztelyi (Eds.)

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STEREO SCIENCE RESULTS AT SOLAR MINIMUM

21 March

THREE-DIMENSIONAL STRUCTURE AND EVOLUTION OF EXTREME-ULTRAVIOLET BRIGHT POINTS OBSERVED BY STEREO/SECCHI/EUVI

Ryun-Young [Kwon](#)^{1,2}, Jongchul Chae³, Joseph M. Davila², Jie Zhang⁴, Yong-Jae Moon⁵, Watanachak Poomvises^{1,2}, and Shaela I. Jones

2012 ApJ 757 167

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

B. M. Bein¹, S. Berkebile-Stoiser¹, A. M. Veronig¹, M. Temmer¹, and B. Vršnak

2012 ApJ 755 44, [File](#)

25 March – 19:06 – M1.7 **пересвет** на $B=42,5*2/299=0,28 < -$ **16 s; 8 s** → $L/R_s=0,142$
А-залимб

25 March 2008 E-limb flare: M1.7/1F at 18:36; **coronal wave**, large CME
STEREO (see <http://stereo-ssc.nascom.nasa.gov/browse/2008/03/25/>),
MLSO data

#Begin Max End Rgn Loc Xray Op 245MHz 10cm Sweep

1836 1856 1913 0989 S13E78 M1.7 1f 99 290 II

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Jiahui **Shan**^{1,2}, Huapeng Zhang^{3,4}, Lei Lu^{1,2}, Yan Zhang^{3,4}, Li Feng^{1,2}, Yunyi Ge¹, Jianchao Xue^{1,2}, and Shuting Li^{1,2}

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Microwave radio emissions as a proxy for coronal mass ejection speed in arrival predictions of interplanetary coronal mass ejections at 1 AU

Carolina Salas **Matamoros**^{1,2*}, Karl Ludwig Klein¹ and Gerard Trottet
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Nicole **Muhr**, Astrid Maria Veronig, Ines Waltraud Kienreich, Bojan Vrsnak, Manuela Temmer, Bianca Maria Bein

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Space Weather and Coronal Mass Ejections **Book**

Timothy A. **Howard**

Springer, 2013

http://books.google.ru/books?id=ihO4BAAAQBAJ&pg=PA97&lpg=PA97&dq=DeForest,+C.+E.&source=bl&ots=XIvsgYLFfB&sig=525J_9PFZBGda9BsysLsvRRQh34&hl=ru&sa=X&ei=HxlfVOr7HoG6PdDNgegL&ved=0CC4Q6AEwBQ#v=onepage&q=DeForest%2C%20C.%20E.&f=false

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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Nat **Gopalswamy** and Seiji Yashiro²

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M. V. **Eselevich** and V. G. Eselevich

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STUDYING EXTREME ULTRAVIOLET WAVE TRANSIENTS WITH A DIGITAL LABORATORY: DIRECT COMPARISON OF EXTREME ULTRAVIOLET WAVE OBSERVATIONS TO GLOBAL MAGNETOHYDRODYNAMIC SIMULATIONS

Cooper [Downs](#)¹, Ilia I. Roussev¹, Bart van der Holst², No'e Lugaz¹, Igor V. Sokolov², and Tamas I. Gombosi²

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Shane A. [Maloney](#) and Peter T. Gallagher

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P. C. [Liewer](#), J. R. Hall, R. A. Howard, E. M. De Jong, W. T. Thompson, A. Thernisien

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S. [Patsourakos](#), A. Vourlidas², and B. Kliem^{3,4}

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M. [Mierla](#) · B. Inhester · C. Marqué · L. Rodriguez · S. Gissot · A.N. Zhukov · D. Berghmans · J. Davila

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4D-Modeling of CME Expansion and EUV Dimming with Fitting to STEREO/EUVI Observations

Markus J. [Aschwanden](#)

E-print, June 2009, [File](#); Annales Geophysicae

FIRST DETERMINATION OF THE TRUE MASS OF CORONAL MASS EJECTIONS: A NOVEL APPROACH TO USING THE TWO STEREO VIEWPOINTS

Robin C. [Colaninno](#)¹ and Angelos Vourlidas²

Astrophysical Journal, 698:852–858, 2009, [File](#)

Reconstructing the 3-D Trajectories of CMEs in the Inner Heliosphere

Shane A. [Maloney](#), Peter T. Gallagher and R. T. James McAteer¹

E-print, May 2009, Solar Phys (2009) 256: 149–166; [File](#)

First Measurements of the Mass of Coronal Mass Ejections from the EUV Dimming Observed with STEREO EUVI A+B Spacecraft

Markus J. [Aschwanden](#), Nariaki V. Nitta, Jean-Pierre Wuelser, James R. Lemen, Anne Sandman, Angelos Vourlidas, Robin C. Colaninno
E-print, April **2009**, **File**, ApJ

28 March 2008

FINE STRUCTURE EVENTS IN MICROWAVE EMISSION DURING SOLAR MINIMUM

Chengming [Tan](#), Baolin Tan, Yihua Yan, Wei Wang, Linjie Chen, Fei Liu, Yujiang Dou
Solar-Terrestrial Physics. **2019**. Vol. 5. Iss. 2. P. 3–8.
Solnechno-zemnaya fizika, 2019. Vol. 5. Iss. 2. P. 4–10
<https://naukaru.ru/en/storage/view/36892>

Combined STEREO/RHESSI study of CME acceleration and particle acceleration in solar flares

M. [Temmer](#), A.M. Veronig, E.P. Kontar, S. Krucker, B. Vrsnak
E-print, Feb. **2010**, **File**, Ap. J.

28-30 March

Magnetic Connectivity Between Active Regions **10987, 10988, and 10989 by Means of Nonlinear Force-Free Field Extrapolation**

Tilaye [Tadesse](#), T. Wiegmann, B. Inhester and A. Pevtsov
Solar Physics, Volume 277, Number 1, 119-130, **2012**

March-Apr 2008. ARs 10987-10989

Investigation of a Sunspot Complex by Helioseismology

A.G. [Kosovichev](#) and T.L. Duvall, Jr
E-print Feb. **2011**; to appear in Proc. IAU Symposium 273, Physics of Sun and Star Spots, Ventura, California 22-26 August 2010

2 Apr

Using an Ellipsoid Model to Track and Predict the Evolution and Propagation of Coronal Mass Ejections

S. [Schreiner](#)¹, C. Cattell¹, K. Kersten¹ and A. Hupach
Solar Phys., **2013**, Volume 288, Issue 1, pp 291-309

5 April 2008 - ~06 and 19 UT, W,

приличная эрупция волокна (вблизи АО?) или sprays?

http://cor1.gsfc.nasa.gov/catalog/COR1_preliminary_event_list.php?q=2008-04

Хороший пример для изучения компонент прилиббовой эрупции с использованием данных двух коронографов **STEREO/COR1** (1.4-4.0) Rs, EUVI; **SOHO/EIT**, хорошие данные **MLSO**. See Events!

<http://stereo.gsfc.nasa.gov/gallery/stereoimages/Twists304.shtml>

A Simple Technique for Identifying the Propagation Direction of CMEs in 3D Space

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

Solar Physics volume 296, Article number: 161 (**2021**)

<https://link.springer.com/content/pdf/10.1007/s11207-021-01904-3.pdf>

<https://doi.org/10.1007/s11207-021-01904-3>

A comparison of coronal mass ejection models with observations for two large CMEs detected during the Whole Heliosphere Interval

Chia-Hsien [Lin](#), James Chen

Terr. Atmos. Ocean. Sci., Vol. 26, No. 2, Part I, 121-134, April 2015

<http://arxiv.org/pdf/1512.07000v1.pdf>

DETERMINATION OF THE HELIOSPHERIC RADIAL MAGNETIC FIELD FROM THE STANDOFF DISTANCE OF A CME-DRIVEN SHOCK OBSERVED BY THE STEREO SPACECRAFT

Watanachak Poomvises^{1,2}, Nat Gopalswamy¹, Seiji Yashiro^{1,2}, Ryun-Young Kwon^{1,2}, and Oscar Olmedo

2012 ApJ 758 118

Observables Indicating Two Major Coronal Mass Ejections During the WHI

N. V. [Nitta](#)

Solar Physics, Volume 274, Numbers 1-2, 219-232, 2011

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](#)

STEREO DIRECT IMAGING OF A CORONAL MASS EJECTION-DRIVEN SHOCK TO 0.5 AU

Shane A. [Maloney](#) and Peter T. Gallagher

E-print, June 2011, [File](#) ; 2011 ApJ 736 L5

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, [File](#)

FIRST DETERMINATION OF THE TRUE MASS OF CORONAL MASS EJECTIONS: A NOVEL APPROACH TO USING THE TWO STEREO VIEWPOINTS

Robin C. [Colaninno](#)¹ and Angelos Vourlidas²

Astrophysical Journal, 698:852–858, 2009, [File](#)

First Measurements of the Mass of Coronal Mass Ejections from the EUV Dimming Observed with STEREO EUVI A+B Spacecraft

Markus J. [Aschwanden](#), Nariaki V. Nitta, Jean-Pierre Wuelser, James R. Lemen, Anne Sandman, Angelos Vourlidas, Robin C. Colaninno

E-print, April 2009, [File](#), ApJ

8 April

PHYSICAL PROPERTIES OF COOLING PLASMA IN QUIESCENT ACTIVE REGION LOOPS

E. Landi et al 2009 ApJ 695 221-237 doi: [10.1088/0004-637X/695/1/221](https://doi.org/10.1088/0004-637X/695/1/221)

9 April - An erupting prominence glows brightly in this COR1-Ahead image from April 9, 2008. This is by far the brightest prominence seen by COR1 since the start of the mission. Complex twisting motions are seen as the prominence erupts.

It is a combination of COR1A and SECCHI EUVI 304 Angstrom images showing a spectacular prominence eruption on 2008-04-09. This event was also seen by the Hinode soft X-ray imager, and joint analysis of this interesting event is underway.

<http://cor1.gsfc.nasa.gov/>

See http://science.nasa.gov/headlines/y2008/27may_cartwheelcme.htm
http://stereo.gsfc.nasa.gov/gallery/stereoimages/304erupt_Apr08.shtml

Time-dependent Hinode/EIS Atlas of a Coronal Mass Ejection Containing Cool Material

E. M. [Wraback](#)¹, E. Landi¹, and W. B. Manchester¹

2024 ApJ 970 182

<https://iopscience.iop.org/article/10.3847/1538-4357/ad625f/pdf>

Understanding the deflection of the `Cartwheel CME': data analysis and modeling

[Abril Sahade](#), [Angelos Vourildas](#), [Laura Balmaceda](#), [Mariana Cecere](#)

ApJ 2023

<https://arxiv.org/pdf/2303.15998.pdf>

The Deflection of the Cartwheel CME: ForeCAT Results

Luisa [Capannolo](#)¹, Merav Opher¹, Christina Kay², and Enrico Landi³

2017 ApJ 839 37 DOI 10.3847/1538-4357/aa6a16

<http://iopscience.iop.org/sci-hub.cc/0004-637X/839/1/37/>

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

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>

A Parametric Study of Erupting Flux Rope Rotation

B. [Kliem](#), T. Török, W. T. Thompson

Solar Physics, November 2012, Volume 281, Issue 1, pp 137-166

POST-CORONAL MASS EJECTION PLASMA OBSERVED BY HINODE

E. [Landi](#)¹, J. C. Raymond², M. P. Miralles², and H. Hara

2012 ApJ 751 21, File

3D Reconstruction of a Rotating Erupting Prominence

W. T. [Thompson](#), B. Kliem and T. Török

Solar Physics, Volume 276, Numbers 1-2, 241-259, 2012

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

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

2011 ApJ 739 8, File

Solar Wind Drag and the Kinematics of Interplanetary Coronal Mass Ejections

Shane A. [Maloney](#) and Peter T. Gallagher

E-print, Oct 2010; ApJL 724:L127-L132, 2010, File

Evidence for a current sheet forming in the wake of a Coronal Mass Ejection from multi-viewpoint coronagraph observations

S. [Patsourakos](#), A. Vourlidas

E-print, Oct 2010, [File](#); A&A

Solar Wind Drag and the Kinematics of Interplanetary Coronal Mass Ejections

Shane A. [Maloney](#) and Peter T. Gallagher

E-print, Oct 2010, [File](#); ApJL

RECONNECTION OUTFLOWS AND CURRENT SHEET OBSERVED WITH *Hinode*/XRT IN THE 2008 APRIL 9 “CARTWHEEL CME” FLARE

Sabrina L. [Savage](#)¹, David E. McKenzie¹, Katharine K. Reeves², Terry G. Forbes³, and Dana W. Longcope¹

Astrophysical Journal, 722:329–342, 2010, [File](#)

Modeling UV and X-Ray Emission in a Post-CME Current Sheet

Yuan-Kuen [Ko](#), John C. Raymond², Bojan Vr̃snak³, Eugen Vujić

E-print, 12 Aug 2010, ApJ, 722:625–641, 2010, [File](#)

PHYSICAL CONDITIONS IN A CORONAL MASS EJECTION FROM *Hinode*, *Stereo*, AND *SOHO* OBSERVATIONS

E. [Landi](#)¹, J. C. Raymond², M. P. Miralles², and H. Hara³

Astrophysical Journal, 711:75–98, 2010 March; [File](#)

Reconstructing the 3-D Trajectories of CMEs in the Inner Heliosphere

Shane A. [Maloney](#), Peter T. Gallagher and R. T. James McAteer¹

E-print, May 2009, Solar Phys (2009) 256: 149–166; [File](#)

10 April

Using ForeCAT Deflections and Rotations to Constrain the Early Evolution of CMEs

C. [Kay](#), M. Opher, R. C. Colaninno, A. Vourlidas

ApJ 2016

<http://arxiv.org/pdf/1606.03460v1.pdf>

14 April

The EUV spectrum of the Sun: quiet and active Sun irradiances and chemical composition

G. [Del Zanna](#)

A&A 2019

<https://arxiv.org/pdf/1901.08841.pdf>

16 April

Coronal Sources and In Situ Properties of the Solar Winds Sampled by ACE During 1999–2008

Hui [Fu](#), [Bo Li](#), [Xing Li](#), [Zhenghua Huang](#), [Chaozhou Mou](#), [Fangran Jiao](#), [Lidong Xia](#)

Solar Phys. 2015

<http://arxiv.org/pdf/1505.00407v1.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>

16 April to 13 May 2008

3D Temperatures and Densities of the Solar Corona via Multi-Spacecraft EUV Tomography: Analysis of Prominence Cavities

Alberto M. **Vásquez** · Richard A. Frazin · Farzad Kamalabadi
Solar Phys (2009) 256: 73–85, DOI 10.1007/s11207-009-9321-1
STEREO SCIENCE RESULTS AT SOLAR MINIMUM

18 Apr

Observations of the Solar Corona from Space

Review

[Ester Antonucci](#), [Louise Harra](#), [Roberto Susino](#) & [Daniele Telloni](#)
[Space Science Reviews](#) volume 216, Article number: 117 (2020)
<https://link.springer.com/content/pdf/10.1007/s11214-020-00743-1.pdf>
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26 Apr

Polarisation and source structure of solar stationary type IV radio bursts★

Carolina **Salas-Matamoros**¹ and Karl-Ludwig Klein
A&A 639, A102 (2020)
<https://www.aanda.org/articles/aa/pdf/2020/07/aa37989-20.pdf>

Combining STEREO SECCHI COR2 and HI1 images for automatic CME front edge tracking

Vladimir **Kirnosov**^{1*}, Lin-Ching Chang¹ and Antti Pulkkinen
J. Space Weather Space Clim., 6, A41 (2016)
<http://www.swsc-journal.org/articles/swsc/pdf/2016/01/swsc150079.pdf>

CME-related particle acceleration regions during a simple eruptive event near solar minimum

Carolina Salas **Matamoros**^{*1,2}, Karl-Ludwig Klein^{1,3}, and Alexis Rouillard⁴
CESRA 2016 p.65
http://cesra2016.sciencesconf.org/conference/cesra2016/pages/CESRA2016_prog_abs_book_v3.pdf

Coronal mass ejection-related particle acceleration regions during a simple eruptive event

Carolina **Salas-Matamoros**^{1,5}, Karl-Ludwig Klein^{1,2} and Alexis P. Rouillard³
A&A 590, A135 (2016) **File**
<http://www.aanda.org/articles/aa/pdf/2016/06/aa28015-15.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>

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

B. M. [Bein](#)¹, M. Temmer¹, A. Vourlidas², A. M. Veronig¹, and D. Utz
2013 ApJ 768 31; [File](#)

Using an Ellipsoid Model to Track and Predict the Evolution and Propagation of Coronal Mass Ejections

S. [Schreiner](#)¹, C. Cattell¹, K. Kersten¹ and A. Hupach
Solar Phys., 2012, doi 10.1007/s11207-012-9936-5

CME reconstruction: Pre-STEREO and STEREO era

A. [Thernisien](#)^a, A. Vourlidas^b, and R.A. Howard^b,
Journal of Atmospheric and Solar-Terrestrial Physics, Volume 73, Issue 10, 2011, Pages 1156-1165
<https://sci-hub.ru/10.1016/j.jastp.2010.10.019>

INITIATION AND EARLY DEVELOPMENT OF THE 2008 APRIL 26 CORONAL MASS EJECTION

J. [Huang](#)^{1,2}, P. D'emoulin², M. Pick², F. Auch`ere³, Y. H. Yan¹, and A. Bouteille²
Astrophysical Journal, 729:107 (10pp), 2011, [File](#)

CORONAL MASS EJECTION PROPAGATION AND EXPANSION IN THREE-DIMENSIONAL SPACE IN THE HELIOSPHERE BASED ON STEREO/SECCHI OBSERVATIONS

[Poomvises](#), W., Zhang, J., & Olmedo, O.
2010, ApJ, 717, L159, [File](#)

Accuracy and Limitations of Fitting and Stereoscopic Methods to Determine the Direction of Coronal Mass Ejections from Heliospheric Imagers Observations

N. [Lugaz](#)
Solar Phys (2010) 267: 411–429; [File](#)

SMEI 3D RECONSTRUCTION OF A CORONAL MASS EJECTION INTERACTING WITH A COROTATING SOLAR WIND DENSITY ENHANCEMENT: THE 2008 APRIL 26 CME

B. V. [Jackson](#)¹, A. Buffington¹, P. P. Hick^{1,2}, J. M. Clover¹, M. M. Bisi^{1,3}, and D. F. Webb⁴
Astrophysical Journal, 724:829–834, 2010

Stereoscopic Analysis of STEREO/SECCHI Data for CME Trajectory Determination

P. C. [Liewer](#), J. R. Hall, R. A. Howard, E. M. De Jong, W. T. Thompson, A. Thernisien
E-print, 6 Oct 2010; JASTP

Automatic Detection and Extraction of Coronal Dimmings from SDO/AIA Data

G. D. R. [Attrill](#) and M. J. Wills-Davey
E-print, Aug, 2009, [File](#) ; Solar Phys.

Numerical Heliospheric Simulations as Assisting Tool for Interpretation of Observations by STEREO Heliospheric Imagers

Dusan [Odstrcil](#) · Victor J. Pizzo
Solar Phys (2009) 259: 297–309, [File](#)

On the Origin, 3D Structure and Dynamic Evolution of CMEs Near Solar Minimum

H. [Xie](#) · O.C. St. Cyr · N. Gopalswamy · S. Yashiro · J. Krall · M. Kramar · J. Davila
Solar Phys (2009) 259: 143–161

AN EMPIRICAL RECONSTRUCTION OF THE 2008 APRIL 26 CORONAL MASS EJECTION

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Astrophysical Journal, 702:901–910, **2009** September

Relation Between Type II Bursts and CMEs Inferred from STEREO Observations

Gopalswamy, N.; Thompson, W. T.; Davila, J. M.; Kaiser, M. L.; Yashiro, S.; M[?]kel[?], P.; Michalek, G.; Bougeret, J.-L.; Howard, R. A.
E-print, July **2009**; Solar Phys. **File**

FIRST DETERMINATION OF THE TRUE MASS OF CORONAL MASS EJECTIONS: A NOVEL APPROACH TO USING THE TWO STEREO VIEWPOINTS

Robin C. **Colaninno**¹ and Angelos Vourlidas²
Astrophysical Journal, 698:852–858, **2009**, **File**

First Measurements of the Mass of Coronal Mass Ejections from the EUV Dimming Observed with STEREO EUVI A+B Spacecraft

Markus J. **Aschwanden**, Nariaki V. Nitta, Jean-Pierre Wuelser, James R. Lemen, Anne Sandman, Angelos Vourlidas, Robin C. Colaninno
E-print, April **2009**, **File**, ApJ

28 Apr

Seeing The Solar Corona in Three Dimensions

Alberto Marcos **Vásquez**

2015

<http://arxiv.org/pdf/1503.02238v1.pdf>

29-30 Apr

Using an Ellipsoid Model to Track and Predict the Evolution and Propagation of Coronal Mass Ejections

S. **Schreiner**¹, C. Cattell¹, K. Kersten¹ and A. Hupach
Solar Phys., **2013**, Volume 288, Issue 1, pp 291-309

12 May 2008 – several E-limb eruptions

16 May

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>

17 May 2008

A Simple Technique for Identifying the Propagation Direction of CMEs in 3D Space

Y. I. Egorov & **V. G. Fainshtein**

Solar Physics volume 296, Article number: 161 (**2021**)

<https://link.springer.com/content/pdf/10.1007/s11207-021-01904-3.pdf>

<https://doi.org/10.1007/s11207-021-01904-3>

CORONAL MASS EJECTION PROPAGATION AND EXPANSION IN THREE-DIMENSIONAL SPACE IN THE HELIOSPHERE BASED ON STEREO/SECCHI OBSERVATIONS

Poomvises, W., Zhang, J., & Olmedo, O.
2010, ApJ, 717, L159, [File](#)

Reconstructing the 3D Morphology of the 17 May 2008 CME

B.E. **Wood** · R.A. Howard · A. Thernisien · S.P. Plunkett · D.G. Socker
Solar Phys (2009) 259: 163–178, [File](#)

Flare Energy Build-Up in a Decaying Active Region Near a Coronal Hole

Yingna **Su**^{1,2}, Adriaan van Ballegoijen¹, Brigitte Schmieder³, Arkadiusz Berlicki^{4,5,3}, Yang Guo³, Leon Golub¹, Guangli Huang²
E-print, Aug 2009, [File](#); ApJ

We used such a technique to model a CME from 2008 May 17 (Wood et al. 2009b).

Wood, B. E., Howard, R. A., Thernisien, A., Plunkett, S. P., & Socker, D. G. 2009b, Sol. Phys., in press

18 May

Error Estimation of Linear Polarization Data from Coronagraphs – Application to STEREO-A/SECCHI-COR1 Observations

[Bernd Inhester](#), [Marilena Mierla](#), [Sergei Shestov](#) & [Andrei N. Zhukov](#)
[Solar Physics](#) volume 296, Article number: 72 (2021)
<https://link.springer.com/content/pdf/10.1007/s11207-021-01815-3.pdf>
<https://doi.org/10.1007/s11207-021-01815-3>

19 May

Observational Evidence for Langmuir Wave Collapse in the Source Region of a Solar Type III Radio Burst

G. **Thejappa**¹ and R. J. MacDowall²
2018 ApJ 862 75
<http://iopscience.iop.org/article/10.3847/1538-4357/aaca3b/pdf>

22 May 2008 - On May 22nd, NASA's [STEREO-A](#) spacecraft photographed another cartwheel CME even more dramatic than the one on April 9th. [The movie](#) is a must-see.

[A Technique for Removing Background Features in SECCHI – EUVI He II 304 Å Filtergrams: Application to the Filament Eruption of 22 May 2008](#)

[G. Artzner](#), [S. Gosain](#) and [B. Schmieder](#)
Solar Phys., 262(2), 437-447, 2010

Estimation of width and inclination of a filament sheet using He II 304 Å observations by STEREO/EUVI,

[Gosain](#), S. and Schmieder, B.:
Ann. Geophys., 28, 149-153, 2010.

3D evolution of a filament disappearance event observed by STEREO

S. **Gosain**¹ · B. Schmieder² · P. Venkatakrisnan¹ · R. Chandra² · G. Artzner
Solar Phys., (2009) 259: 13–30, [File](#)

23 May

Fitting and Reconstruction of Thirteen Simple Coronal Mass Ejections

[Nada Al-Haddad](#), [Teresa Nieves-Chinchilla](#), [Neel P. Savani](#), [Noe Lugaz](#), [Iliia I. Roussev](#)
Solar Phys. 2018
<https://arxiv.org/pdf/1804.02359.pdf>

Accuracy and Limitations of Fitting and Stereoscopic Methods to Determine the Direction of Coronal Mass Ejections from Heliospheric Imagers Observations

N. **Lugaz**

Solar Phys (2010) 267: 411–429; **File**

31 May

See

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

1-6 June

INFLUENCE OF THE AMBIENT SOLAR WIND FLOW ON THE PROPAGATION BEHAVIOR OF INTERPLANETARY CORONAL MASS EJECTIONS

Manuela **Temmer**¹, Tanja Rollett^{1,2}, Christian Möstl^{1,2}, Astrid M. Veronig¹, Bojan Vršnak³ and Dusan Odstrčil

2011 ApJ 743 101, **File**

1 June 2008

Investigating Remote-sensing Techniques to Reveal Stealth Coronal Mass Ejections

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

Frontiers in Astronomy and Space Sciences 2021

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

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. Peinhardt, 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>

Propagation of Interplanetary Coronal Mass Ejections: The Drag-Based Model

B. **Vršnak**, T. Žic, D. Vrbanec, M. Temmer, T. Rollett, C. Möstl, A. Veronig, J. Čalogović, M. Dumbović and S. Lulić, et al.

Solar Physics, July 2013, Volume 285, Issue 1-2, pp 295-315, **File**

Analysis and study of the in situ observation of the June 1st 2008 CME by STEREO

T. **Nieves-Chinchilla**^{a, b, ,}, R. Gómez-Herrero^c, A.F. Viñas^b, O. Malandrakid, N. Dresing^c, M.A. Hidalgo^e, A. Opitz^f, J.-A. Sauvaud^f, B. Lavraud^f and J.M. Davila^b

Journal of Atmospheric and Solar-Terrestrial Physics, Volume 73, Issues 11-12, 2011, Pages 1348-1360

On the influence of CMEs on the global 3-D coronal electron density

M. **Kramar**^{1,2}, J. Davila², H. Xie^{1,2}, and S. Antiochos

Ann. Geophys., 29, 1019-1028, 2011, **File**

Sun to 1 AU propagation and evolution of a slow streamer-blowout coronal mass ejection

Lynch, B. J.; Li, Y.; Thernisien, A. F. R.; Robbrecht, E.; Fisher, G. H.; Luhmann, J. G.; Vourlidas, A. J. Geophys. Res., Vol. 115, No. A7, A07106, 2010; **File**

<http://dx.doi.org/10.1029/2009JA015099>

1-2 June

Exploring the Origin of Stealth Coronal Mass Ejections with Magnetofrictional Simulations

[P. Bhowmik](#), [A. R. Yeates](#) & [O. E. K. Rice](#)

[Solar Physics](#) volume 297, Article number: 41 (2022)

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Understanding the Origins of Problem Geomagnetic Storms Associated With "Stealth" Coronal Mass Ejections

Nariaki V. [Nitta](#), [Tamitha Mulligan](#), [Emilia K. J. Kilpua](#), [Benjamin J. Lynch](#), [Marilena Mierla](#), [Jennifer O'Kane](#), [Paolo Pagano](#), [Erika Palmerio](#), [Jens Pomoell](#), [Ian G. Richardson](#), [Luciano Rodriguez](#), [Alexis P. Rouillard](#), [Suvadip Sinha](#), [Nandita Srivastava](#), [Dana-Camelia Talpeanu](#), [Stephanie L. Yardley](#), [Andrei N. Zhukov](#)

Space Science Reviews 2021

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A model for stealth coronal mass ejections†

B. J. [Lynch](#), S. Masson, Y. Li, C. R. DeVore, J. G. Luhmann, S. K. Antiochos, G. H. Fisher
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1-6 June

Constraining the Kinematics of Coronal Mass Ejections in the Inner Heliosphere with In-Situ Signatures

T. [Rollett](#), C. Möstl, M. Temmer, A. M. Veronig, C. J. Farrugia and H. K. Biernat

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Exploring the Origin of Stealth Coronal Mass Ejections with Magnetofrictional Simulations

[P. Bhowmik](#), [A. R. Yeates](#) & [O. E. K. Rice](#)

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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

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A.P. [Rouillard](#)

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N. [Lugaz](#)¹, J. N. Hernandez-Charpak², I. I. Roussev¹, C. J. Davis³, A. Vourlidas⁴, and J. A. Davies³

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K. [Chandrasekhar](#)¹, A. Bemporad², D. Banerjee¹, G. R. Gupta³ and L. Teriaca
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Fine Structures of the Inner Solar Corona and the Associated Magnetic Topology
Yuan-Kuen [Ko](#)¹, Guillermo Stenborg^{2,3}, Jon Linker⁴, Micah J. Weberg^{5,6}, Roberto Lionello⁴,
and Viacheslav Titov⁴
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Characteristics of polar coronal hole jets★
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Data-driven modeling of the solar wind from 1 Rs to 1 AU

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

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Primož [Kajdič](#), [Xóchitl Blanco-Cano](#), [Lucile Turc](#), [Martin Archer](#), [Savvas Raptis](#), [Terry Z. Liu](#), [Yann Pfau-Kempf](#), [Adrian T. LaMoury](#), [Yufei Hao](#), [Philippe C. Escoubet](#), [Nojan Omid](#), [David G. Sibeck](#), [Boyi Wang](#), [Hui Zhang](#), [Yu Lin](#)

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High-resolution imaging spectroscopy of two micro-pores and an arch filament system in a small emerging-flux region

S. J. González [Manrique](#)^{1,2}, N. Bello González³ and C. Denker

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A. **Isavnin**, A. Vourlidas, E. K. J. Kilpua
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R. [Attie](#)¹, D. E. Innes¹, S. K. Solanki^{1,2} and K. H. Glassmeier

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Shane A. [Maloney](#) and Peter T. Gallagher

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A novel approach to identify resonant MHD wave modes in solar pores and sunspot umbrae: $B-\omega$ analysis

[M. Stangalini](#), [D. B. Jess](#), [G. Verth](#), [V. Fedun](#), [B. Fleck](#), [S. Jafarzadeh](#), [P. H. Keys](#), [M. Murabito](#), [D. Calchetti](#), [A. A. Aldhafeeri](#), [F. Berrilli](#), [D. Del Moro](#), [S. M. Jefferies](#), [J. Terradas](#), [R. Soler](#)

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M. [Poisson](#), [P. Démoulin](#), [C.H. Mandrini](#), [M.C. López Fuentes](#)

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E. K. J. [Kilpua](#)¹, J. Pomoell¹, A. Vourlidas³, R. Vainio¹, J. Luhmann², Y. Li², P. Schroeder², A. B. Galvin⁴, and K. Simunac

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Ward [Manchester](#) IV, Emilia K. J. Kilpua, Ying D. Liu, Noé Lugaz, Pete Riley, Tibor Török, Bojan Vršnak

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Olga [Panasenco](#), Sara F. Martin, Marco Velli, Angelos Vourlidas

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2-3 Nov

Narrowband frequency-drift structures in solar type IV bursts

Yukio [Nishimura](#)¹, Takayuki Ono¹, Fuminori Tsuchiya², Hiroaki Misawa², Atsushi Kumamoto¹, Yuto Katoh¹, Satoshi Masuda³, and Yoshizumi Miyoshi³

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Fang [Shen](#), Chenglong Shen, Yuming Wang, Xueshang Feng, Changqing Xiang

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

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

!!! 4 Nov 03:17 C1.0 N37W47 Хорошее событие для анализа STEREO-A,B + SOHO

Заметная эрупция, корональная волна и/или распространяющееся поглощение.

Лучше всего наблюдалась на STEREO-A.

Подробные данные через 1,5 мин на 171 А.

На 304 А распространяющийся “dimming” или поглощение.

СМЕ “отклоняется” к экватору.

Разностные фильмы SOHO-195 А see Events.

См. фильмы STEREO (в том числе разностные) на
http://www.lmsal.com/nitta/movies/flares_euvi/

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

R. **Bucik**

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Super-elastic collision of large-scale magnetized plasmoids in the heliosphere

Chenglong **Shen**¹, Yuming Wang^{1*}, Shui Wang¹, Ying Liu^{2,3}, Rui Liu¹, Angelos Vourlidas⁴, Bin Miao¹,

Pinzhong Ye¹, Jiajia Liu¹ and Zhenjun Zhou¹

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

B. M. **Bein**¹, S. Berkebile-Stoiser¹, A. M. Veronig¹, M. Temmer¹, and B. Vršnak

2012 ApJ 755 44, File

SOLAR ENERGETIC PARTICLE 3He-RICH EVENTS FROM THE NEARLY QUIET SUN IN 2007–2008

G. M. **Mason**¹, N. V. Nitta², C. M. S. Cohen³, and M. E. Wiedenbeck⁴

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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

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Grad-Shafranov reconstruction of magnetic clouds: overview and improvements

Alexey **Isavnin**, Emilia K.J. Kilpua, Hannu E.J. Koskinen

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LARGE-SCALE FLOWS IN PROMINENCE CAVITIES

D. J. **Schmit**, S. E. Gibson², S. Tomczyk², K. K. Reeves³, Alphonse C. Sterling^{4,9}, D. H. Brooks⁵, D. R. Williams⁶, and D. Tripathi

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The Solar Mass Ejection Imager and Its Heliospheric Imaging Legacy **Review**

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M. **Jin**¹, W. B. Manchester¹, B. van der Holst¹, J. R. Gruesbeck¹, R. A. Frazin¹, E. Landi¹, A. M. Vasquez², P. L. Lamy³, A. Llebaria³, A. Fedorov³, G. Toth¹ and T. I. Gombosi
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