2019 See https://www.spaceweather.com https://www.solarmonitor.org

ftp://ftp.swpc.noaa.gov/pub/warehouse/2019/
ftp://ftp.swpc.noaa.gov/pub/warehouse/2019/2019_plots/xray/

Jan - March
Energetic Particle Increases Associated with Stream Interaction Regions
C. M. S. **Cohen**, E. R. Christian, A. C. Cummings, A. J. Davis, M. I. Desai, ...
2019
https://arxiv.org/ftp/arxiv/papers/1912/1912.08244.pdf

14-24 Jan
Sun-as-a-star Spectral Irradiance Observations of Transiting Active Regions
Shin **Toriumi**, Vladimir S. Airapetian, Hugh S. Hudson, Carolus J. Schrijver, Mark C.M. Cheung, Marc L. DeRosa
ApJ **2020**
https://arxiv.org/pdf/2008.04319.pdf

21 Jan - ~02 UT; эрупция (возможно, волокна) в южно-центральном секторе диска;
видна на **304 A**

23 Jan
A Study of an Equatorial Coronal Hole Observed at the First Parker Solar Probe Perihelion
Nishu **Karna**1, Mitchell A. Berger2, Mahboubeh Asgari-Targhi1, Kristoff Paulson1, and Ken'ichi Fujiki3
2022 ApJ 925 62
https://iopscience.iop.org/article/10.3847/1538-4357/ac3c46/pdf
https://doi.org/10.3847/1538-4357/ac3c46

24 Jan
Two Classes of Eruptive Events During Solar Minimum
P. **Bhowmik** & A. R. Yeates
Solar Physics volume 296, Article number: 109 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01845-x.pdf
https://doi.org/10.1007/s11207-021-01845-x

25 Jan
Impulsive coronal heating during the interaction of surface magnetic fields in the lower solar atmosphere
L. P. **Chitta**, H. Peter, E. R. Priest, S. K. Solanki
A&A **2020**
https://arxiv.org/pdf/2010.12560.pdf

26 Jan. at 13:22 UT, the magnetic canopy of sunspot AR2733 exploded, producing the strongest solar flare C5 in nearly a year.

Two-step evolution of a rising flux rope resulting in a confined solar flare
Shuhong **Yang**, Jun Zhang, Qiao Song, Yi Bi, Ting Li
ApJ **2019**
https://arxiv.org/pdf/1905.00808.pdf

February 2019
The Application of the Filtered Backprojection Algorithm to Solar Rotational Tomography

Kyuhyoun **Cho**, Jongchul Chae, Ryun-Young Kwon, Su-Chan Bong, Kyung-Suk Cho
ApJ **895** 55 **2020**
https://arxiv.org/pdf/2005.06388.pdf
https://doi.org/10.3847/1538-4357/ab88af

4-9 Feb
Improved detection of farside solar active regions using deep learning
T. **Felipe**, A. Asensio Ramos
A&A **2019**
https://arxiv.org/pdf/1911.01099.pdf

13-15 Feb
Oscillation Dynamics in Short-Lived Facula Regions during Their Lifetime
Andrei **Chelpanov**, Nikolai Kobanov
ApJ **2022**
https://arxiv.org/pdf/2202.07239.pdf

20 Feb
The Missing Cool Corona in the Flat Magnetic Field around Solar Active Regions
Talwinder **Singh**, Alphonse C. Sterling, Ronald L. Moore
2021
https://arxiv.org/pdf/2012.15406.pdf

21 Feb
Interactions between Filament Fibrils and a Network Field
Zhiping **Song**1,2, Jun Zhang1, and Yue Fang1
2023 ApJ 943 114
https://iopscience.iop.org/article/10.3847/1538-4357/acaefc/pdf

24 Feb - ~01 UT Эрупция NW волокна, **304 A**, CME.
See https://twitter.com/i/status/1099587025286631424,
http://spaceweather.gmu.edu/seeds/dailymkmovie.php?cme=20190224&r

3 Mar
The Sun's Non-Potential Corona over Solar Cycle 24
Anthony R. **Yeates**
Solar Phys. **2024**
https://arxiv.org/pdf/2405.14322

8 March - ~03 UT: центральная вспышка C1.3, заметная корональная волна,
A partial halo CME http://spaceweather.gmu.edu/seeds/dailymkmovie.php?cme=20190308&r
Earth is about to be sideswiped by a pair of coronal mass ejections (CMEs).

Recovery of coronal dimmings
Giulia M. **Ronca**, Galina Chikunova, Karin Dissauer, Tatiana Podladchikova, Astrid M. Veronig
A&A **2024**
https://arxiv.org/pdf/2410.02585

The 2019 International Women's Day event: A two-step solar flare with multiple eruptive signatures and low Earth impact
Dumbovic, M., Veronig, A. M., Podladchikova, T., Thalmann, J. K., Chikunova, G., Dissauer, K., Magdalenic, J., Temmer, M., Guo, J., Samara, E
A&A **2021**
https://arxiv.org/pdf/2106.15417.pdf

Two-stage evolution of an extended C-class eruptive flaring activity from sigmoid active region NOAA 12734: SDO and Udaipur-CALLISTO observations
Bhuwan **Joshi** , Prabir K. Mitra , R. Bhattacharyya , Kushagra Upadhyay , Divya Oberoi , K. Sasikumar Raja , Christian Monstein
Solar Phys. **2021**
https://arxiv.org/pdf/2104.10947.pdf

Diagnosing a Solar Flaring Core with Bidirectional Quasi-Periodic Fast Propagating Magnetoacoustic Waves
Yuhu **Miao**, Dong Li, Ding Yuan, Chaowei Jiang, Abouazza Elmhamdi, Mingyu Zhao, Sergey Anfinogentov
ApJL **2021**
https://arxiv.org/pdf/2101.12392.pdf

Solar Radio Observation Using CALLISTO at the USO/PRL, Udaipur
Kushagra **Upadhyay**, Bhuwan Joshi, Prabir K. Mitra, Ramit Bhattacharyya, Divya Oberoi, Christian Monstein
IEEE, 2019 IEEE MTT-S International Microwave and RF Conference (IMARC) **2020**
https://arxiv.org/pdf/2007.01655.pdf

8 March-18 Apr
Small-scale Magnetic Flux Ropes in the First two Parker Solar Probe Encounters
Yu **Chen**, Qiang Hu, Lingling Zhao, Justin C. Kasper, Stuart D. Bale, Kelly E. Korreck, Anthony W. Case, Michael L. Stevens, John W. Bonnell, Keith Goetz, Peter R. Harvey, Kristopher G. Klein, Davin E. Larson, Roberto Livi, Robert J. MacDowall, David M. Malaspina, Marc Pulupa, Phyllis L. Whittlesey
ApJ **2020**
https://arxiv.org/pdf/2007.04551.pdf

9 March - 12:20, B6.1 вспышка, заметная корональная волна,
CME http://spaceweather.gmu.edu/seeds/dailymkmovie.php?cme=20190309&r

Splitting and eruption of an active region filament caused by magnetic reconnection
Defang **Kong**, Jincheng Wang, Genmei Pan
2024
https://arxiv.org/abs/2408.08569

12 March - CME

15 Mar

Planar Magnetic Structures Downstream of Coronal Mass Ejection–driven Shocks in the Inner Heliosphere
Mengsi **Ruan**1,2, Pingbing Zuo1,2, Xueshang Feng1,2, Qi Xu1,2, Zilu Zhou3, Jiayun Wei1,2, Chaowei Jiang1,2, Yi Wang1,2, Xiaojun Xu3, and Zhenning Shen3
2023 ApJ 951 47
https://iopscience.iop.org/article/10.3847/1538-4357/acd245/pdf

Parker Solar Probe: Four Years of Discoveries at Solar Cycle Minimum **Review**
N. E. **Raouafi**, L. Matteini, J. Squire, S. T. Badman, M. Velli, +++
Space Science Reviews **2023** 157 pages, 65 figures
https://arxiv.org/pdf/2301.02727.pdf

Structure and fluctuations of a slow ICME sheath observed at 0.5 au by the Parker Solar Probe
E. K. J. **Kilpua**, S. W. Good, M. Ala-Lahti, A. Osmane, S. Pal, J. E. Soljento, L. L. Zhao, S. Bale

A&A **2022**
https://arxiv.org/pdf/2204.13058.pdf

Evolution of sheath and leading edge structures of interplanetary coronal mass ejections in the inner heliosphere based on Helios and Parker Solar Probe observations
Manuela **Temmer**, Volker Bothmer
A&A **2022**
https://arxiv.org/pdf/2202.04391.pdf

18 March
Reconstructing 3D Magnetic Topology of On-disk Prominence Bubbles from Stereoscopic Observations
Yilin **Guo**, Yijun Hou, Ting Li, Jun Zhang
ApJL **2021**
https://arxiv.org/pdf/2103.07860.pdf

20 March - A rather faint asymmetric halo CME associated with a C4.8/1N flare at 1118 UT in AR 12736, N09W26

Observations of shock propagation through turbulent plasma in the solar corona
Dr. Eoin P. **Carley**, Dr. B. Cecconi, Dr. Hamish A. Reid, Carine Briand, Sasikumar Raja, Dr. Sophie Masson, Dr. Vladimir V. Dorovskyy, Caterina Tiburzi, Dr. Nicole Vilmer, Pietro Zucca, Dr. Philippe Zarka, Dr. Michel Tagger, Dr. Jean-Mathias Griessmeier, Prof. Stephane Corbel, Dr. Gilles Theureau, Dr. Alan Loh, Dr. Julien Girard
ApJ **2021**
https://arxiv.org/pdf/2108.05587.pdf

21 March - An impulsive C5.6 flare was recorded at 03:12 UT

Exploring the circular polarisation of low-frequency solar radio bursts with LOFAR
Diana E. **Morosan**, Juska E. Räsänen, Anshu Kumari, Emilia K. J. Kilpua, Mario M. Bisi, Bartosz Dabrowski, Andrzej Krankowski, Jasmina Magdalenić, Gottfried Mann, Hanna Rothkaehl, Christian Vocks, Pietro Zucca
Solar Phys. **2022**
https://arxiv.org/pdf/2203.14674.pdf

21-22 March
Transfer of twist to a solar jet from a remote stable flux-rope: the role of small-scale surface-motions
Reetika **Joshi**, Brigitte Schmieder, Guillaume Aulanier, Véronique Bommier, Ramesh Chandra
A&A **2020**
https://arxiv.org/pdf/2008.06887.pdf

22 March

Study of Solar Jets and Related Flares **Thesis**
Reetika **Joshi**
Thesis **2022**
https://arxiv.org/pdf/2206.02478.pdf

Empirical atmosphere model in a mini flare during magnetic reconnection
Brigitte **Schmieder**, Reetika Joshi, Ramesh Chandra, Guillaume Aulanier, Akiko Tei, Petr Heinzel, James Tomin, Nicole Vilmer, Veronique Bommier
HVAR proceedings **2021**
Cent. Eur. Astrophys. Bull. vol (**2021**) 1, 5

https://arxiv.org/pdf/2112.06790.pdf

Solar jets observed with the Interface Region Imaging Spectrograph (IRIS)
Brigitte **Schmieder**, Reetika Joshi, Ramesh Chandra
Advances in Space Research **2021**
https://arxiv.org/pdf/2111.09002.pdf

Balmer continuum enhancement detected in a mini flare observed with IRIS
Reetika **Joshi**, Brigitte Schmieder, Petr Heinzel, James Tomin, Ramesh Chandra, Nicole Vilmer
A&A **2021**
https://arxiv.org/pdf/2107.11651.pdf

Multi thermal atmosphere of a mini solar flare during magnetic reconnection observed with IRIS
Reetika **Joshi**, Brigitte Schmieder, Akiko Tei, Guillaume Aulanier, Juraj Lörinčík, Ramesh Chandra, Petr Heinzel
A&A **2020**
https://arxiv.org/pdf/2010.15401.pdf

Imaging and spectral study on the null point of a fan-spine structure during a solar flare
Shuhong **Yang**, Qingmin Zhang, Zhi Xu, Jun Zhang, Ze Zhong, Yang Guo
ApJ **2020**
https://arxiv.org/pdf/2005.09613.pdf

Весна 2019

ВЛИЯНИЕ ПОЛЯРНЫХ КОРОНАЛЬНЫХ ДЫР НА ХАРАКТЕРИСТИКИ СОЛНЕЧНОГО ВЕТРА В МИНИМУМЕ АКТИВНОСТИ МЕЖДУ 24 И 25 СОЛНЕЧНЫМИ ЦИКЛАМИ

БОРИСЕНКО А. В.1, БОГАЧЁВ С. А.1
ПАЖ Том: 46Номер: 11 Год: **2020** Страницы: 802-813

March 22 - April 11 **second PSP solar encounter**

Simulation of a Solar Jet Formed from an Untwisting Flux Rope Interacting with a Null Point
Jiahao **Zhu**, Yang Guo, Mingde Ding, Brigitte Schmieder
ApJ **2023**
https://arxiv.org/pdf/2303.18098.pdf

Modeling the Transport Processes of a Pair of Solar Energetic Particle Events Observed by Parker Solar Probe Near Perihelion
Lulu **Zhao**1, Ming Zhang1, and David Lario2
2020 ApJ 898 16
https://doi.org/10.3847/1538-4357/ab97b3

The Streamer Blowout Origin of a Flux Rope and Energetic Particle Event Observed by Parker Solar Probe at 0.5 au
D. **Lario**1, L. Balmaceda1,2, N. Alzate1,3, M. L. Mays1, I. G. Richardson1,4, R. C. Allen5, M. Florido-Llinas6, T. Nieves-Chinchilla1, A. Koval1,7, N. Lugaz
2020 ApJ 897 134
https://doi.org/10.3847/1538-4357/ab9942

Small-scale Magnetic Flux Ropes in the First two Parker Solar Probe Encounters

Yu **Chen**, Qiang Hu, Lingling Zhao, Justin C. Kasper, Stuart D. Bale, Kelly E. Korreck, Anthony W. Case, Michael L. Stevens, John W. Bonnell, Keith Goetz, Peter R. Harvey, Kristopher G. Klein, Davin E. Larson, Roberto Livi, Robert J. MacDowall, David M. Malaspina, Marc Pulupa, Phyllis L. Whittlesey
ApJ **2020**
https://arxiv.org/pdf/2007.04551.pdf

Energetic Particle Increases Associated with Stream Interaction Regions
C. M. S. **Cohen**, E. R. Christian, A. C. Cummings, A. J. Davis, M. I. Desai, ...
ApJS Volume 246, Issue 2, id.20 **2020**
https://arxiv.org/ftp/arxiv/papers/1912/1912.08244.pdf
https://sci-hub.tw/10.3847/1538-4365/ab4c38

Relating streamer flows to density and magnetic structures at the Parker Solar Probe
Alexis P. **Rouillard**, Athanasios Kouloumvakos, Angelos Vourlidas, Justin Kasper, Stuart Bale, Nour-Edine Raouafi, …
ApJ **2020**
https://arxiv.org/pdf/2001.01993.pdf

Time domain structures and dust in the solar vicinity: Parker Solar Probe observations
F.S. **Mozer**, O.V. Agapitov, S.D. Bale, J.W. Bonnell, K. Goetz, K.A. Goodrich, ...
First results from the **Parker Solar Probe 2020**
https://arxiv.org/ftp/arxiv/papers/1912/1912.09234.pdf

Switchbacks in the solar magnetic field: their evolution, their content, and their effects on the plasma, V2
F.S. **Mozer**1, O.V. Agapitov1, S.D. Bale1, J.W. Bonnell1, T. Case4, ...
First results from the Parker Solar Probe **2020**
https://arxiv.org/ftp/arxiv/papers/1912/1912.09252.pdf

Near-Sun observations of an F-corona decrease and K-corona fine structure
R. A. **Howard**, A. Vourlidas, […] N. M. Viall
Nature volume 576, pages232–236 (**2019**)
https://www.nature.com/articles/s41586-019-1807-x.pdf

Probing the energetic particle environment near the Sun
D. J. **McComas**, E. R. Christian, […] A. P. Rouillard
Nature volume 576, pages223–227 (2019)
https://www.nature.com/articles/s41586-019-1811-1.pdf

A Zone of Preferential Ion Heating Extends Tens of Solar Radii from the Sun
J. C. **Kasper**1,7, K. G. Klein1,8, T. Weber2, M. Maksimovic3, A. Zaslavsky3, S. D. Bale4,B. A. Maruca5, M. L. Stevens6, and A. W. Case6
2017 ApJ 849 126
http://iopscience.iop.org/article/10.3847/1538-4357/aa84b1/pdf

Highly structured slow solar wind emerging from an equatorial coronal hole
S. D. **Bale**, S. T. Badman, ... J. R. Wygant
Nature volume 576, pages237–242 (**2019**)
https://www.nature.com/articles/s41586-019-1818-7.pdf

Plasma Waves near the Electron Cyclotron Frequency in the near-Sun Solar Wind
David M. **Malaspina**, Jasper Halekas, Laura Bercic, Davin Larson,
ApJ **2019**
https://arxiv.org/pdf/1912.06793.pdf

Statistics and Polarization of Type III Radio Bursts Observed in the Inner Heliosphere

Marc **Pulupa**, Stuart D. Bale, Samuel T. Badman, John W. Bonnell, Anthony W. Case, Thierry Dudok de Wit, Keith Goetz, Peter R. Harvey, Alexander M. Hegedus, Justin C. Kasper, Kelly E. Korreck, Vladimir Krasnoselskikh, Davin Larson, Alain Lecacheux, Roberto Livi, Robert J. MacDowall, Milan Maksimovic, David M. Malaspina, Juan Carlos Martínez Oliveros, Nicole Meyer-Vernet, Michel Moncuquet, Michael Stevens, Phyllis Whittlesey
ApJS **2019**
https://arxiv.org/pdf/1912.03371.pdf

Observations of the 2019 April 4 Solar Energetic Particle Event at the Parker Solar Probe
R. A. **Leske**, E. R. Christian, C. M. S. Cohen, A. C. Cummings, A. J. Davis, M. I. Desai, J. Giacalone, M. E. Hill, C. J. Joyce, S. M. Krimigis, A. W. Labrador, O. Malandraki, W. H. Matthaeus, D. J. McComas, R. L. McNutt Jr., R. A. Mewaldt, D. G. Mitchell, A. Posner, J. S. Rankin, E. C. Roelof, N. A. Schwadron, E. C. Stone, J. R. Szalay, M. E. Wiedenbeck, A. Vourlidas, S. D. Bale, R. J. MacDowall, M. Pulupa, J. C. Kasper, R. C. Allen, A. W. Case, K. E. Korreck, R. Livi, M. L. Stevens, P. Whittlesey, B. Poduval
ApJ **2019**
https://arxiv.org/pdf/1912.03384.pdf

Electrons in the Young Solar Wind: First Results from the Parker Solar Probe
J. S. **Halekas**, P. Whittlesey, D. E. Larson, D. McGinnis, M. Maksimovic, M. Berthomier, J. C. Kasper, A. W. Case, K. E. Korreck, M. L. Stevens, K. G. Klein, S. D. Bale, R. J. MacDowall, M. P. Pulupa, D. M. Malaspina, K. Goetz, P. R. Harvey
ApJ **2019**
https://arxiv.org/pdf/1912.02216.pdf

The Evolution and Role of Solar Wind Turbulence in the Inner Heliosphere
C. H. K. **Chen**, S. D. Bale, J. W. Bonnell, D. Borovikov, T. A. Bowen, D. Burgess, A. W. Case, B. D. G. Chandran, T. Dudok de Wit, K. Goetz, P. R. Harvey, J. C. Kasper, K. G. Klein, K. E. Korreck, D. Larson, R. Livi, R. J. MacDowall, D. M. Malaspina, A. Mallet, M. D. McManus, M. Moncuquet, M. Pulupa, M. Stevens, P. Whittlesey
ApJ **2019**
https://arxiv.org/pdf/1912.02348.pdf

First in-situ Measurements of Electron Density and Temperature from Quasi-Thermal Noise Spectroscopy with Parker Solar Probe/FIELDS
Michel **Moncuquet**, Nicole Meyer-Vernet, Karine Issautier, Marc Pulupa, J. W. Bonnell, Stuart D. Bale, Thierry Dudok de Wit, Keith Goetz, Léa Griton, Peter R. Harvey, Robert J. MacDowall, Milan Maksimovic, David M. Malaspina
ApJS **2019**
https://arxiv.org/pdf/1912.02518.pdf

23 Mar

Discrepancy between the Low-frequency Cutoffs of Type III Radio Bursts Based on Simultaneous Observations by WIND and PSP
Bing **Ma** (马兵)1,2, Ling Chen (陈玲)1,3, Dejin Wu (吴德金)1,3, Marc Pulupa4, and Stuart D. Bale4
2022 ApJL 932 L26
https://iopscience.iop.org/article/10.3847/2041-8213/ac7525/pdf

24 Mar

Turbulence Properties of Interplanetary Coronal Mass Ejections in the Inner Heliosphere: Dependence on Proton Beta and Flux Rope Structure
S. W. **Good**, O. K. Rantala, A.-S. M. Jylhä, C. H. K. Chen, C. Möstl, E. K. J. Kilpua
ApJ **2023**
https://arxiv.org/pdf/2307.09800.pdf

30 March

Statistics and Polarization of Type III Radio Bursts Observed in the Inner Heliosphere
Marc **Pulupa**, Stuart D. Bale, Samuel T. Badman, John W. Bonnell, Anthony W. Case, Thierry Dudok de Wit, Keith Goetz, Peter R. Harvey, Alexander M. Hegedus, Justin C. Kasper, Kelly E. Korreck, Vladimir Krasnoselskikh, Davin Larson, Alain Lecacheux, Roberto Livi, Robert J. MacDowall, Milan Maksimovic, David M. Malaspina, Juan Carlos Martínez Oliveros, Nicole Meyer-Vernet, Michel Moncuquet, Michael Stevens, Phyllis Whittlesey
ApJS **2019**
https://arxiv.org/pdf/1912.03371.pdf

30 Mar-11 Apr

Small-scale magnetic flux ropes and their properties based on in-situ measurements from Parker Solar Probe
Yu **Chen**, Qiang Hu
ApJ **2021**
https://arxiv.org/pdf/2111.09261.pdf

31 Mar

The Formation and Lifetime of Outflows in a Solar Active Region
David H. **Brooks**1,2, Louise Harra3,4, Stuart D. Bale5, Krzysztof Barczynski3,4, Cristina Mandrini6, Vanessa Polito7,8, and Harry P. Warren9
2021 ApJ 917 25
https://doi.org/10.3847/1538-4357/ac0917

31 Mar - 1 Apr

The Formation and Lifetime of Outflows in a Solar Active Region
David H. **Brooks**, Louise Harra, Stuart D. Bale, Krzysztof Barczynski, Cristina Mandrini, Vanessa Polito, Harry P. Warren
ApJ **2021**
https://arxiv.org/pdf/2106.03318.pdf

Sympathetic Standard and Blowout Coronal Jets Observed in a Polar Coronal Hole
Zehao **Tang**, Yuandeng Shen, Xinping Zhou, Yadan Duan, Chengrui Zhou, Song Tan, Elmhamdi Abouazza
ApJL **2021**
https://arxiv.org/pdf/2104.04309.pdf

31 Mar-6 Apr

Source-dependent properties of two slow solar wind states
Léa **Griton**, Alexis P. Rouillard, Nicolas Poirier, Karine Issautier, Michel Moncuquet, Rui Pinto
ApJ **2021**
https://arxiv.org/pdf/2102.06568.pdf

The active region source of a type III radio storm observed by Parker Solar Probe during Encounter 2
L. **Harra**, D. H. Brooks, S. D. Bale, C. H. Mandrini, K. Barczynski, R. Sharma, S. T. Badman, S. Vargas Dominguez, M. Pulupa
A&A **2021**
https://arxiv.org/pdf/2102.04964.pdf

April

Interaction of magnetic fields with a vortex tube at solar subgranular scale
C.E.**Fischer**, G.Vigeesh, P.Lindner, J.M.Borrero, F.Calvo, O.Steiner

ApJL **903** L10 **2020**
https://arxiv.org/pdf/2010.05577.pdf
https://iopscience.iop.org/article/10.3847/2041-8213/abbada/pdf

1-2 April

Coronal mass ejections observed by heliospheric imagers at 0.2 and 1 au
The events on April 1 and 2, 2019
Carlos R. **Braga**1,2 and Angelos Vourlidas
A&A 650, A31 (**2021**)
https://www.aanda.org/articles/aa/pdf/2021/06/aa39490-20.pdf
https://doi.org/10.1051/0004-6361/202039490
https://arxiv.org/pdf/2011.05229.pdf

1-4 Apr

The active region source of a type III radio storm observed by Parker Solar Probe during Encounter 2
L. **Harra**, D. H. Brooks, S. D. Bale, C. H. Mandrini, K. Barczynski, R. Sharma, S. T. Badman, S. Vargas Dominguez, M. Pulupa
A&A **2021**
https://arxiv.org/pdf/2102.04964.pdf

Trajectory Determination for Coronal Ejecta Observed by WISPR/Parker Solar Probe
P. C. **Liewer**, J. Qiu, P. Penteado, J. R. Hall, A. Vourlidas, R. A. Howard
Solar Phys. **2020**
https://arxiv.org/pdf/2009.09323.pdf

Statistics and Polarization of Type III Radio Bursts Observed in the Inner Heliosphere
Marc **Pulupa**, Stuart D. Bale, Samuel T. Badman, John W. Bonnell, Anthony W. Case, Thierry Dudok de Wit, Keith Goetz, Peter R. Harvey, Alexander M. Hegedus, Justin C. Kasper, Kelly E. Korreck, Vladimir Krasnoselskikh, Davin Larson, Alain Lecacheux, Roberto Livi, Robert J. MacDowall, Milan Maksimovic, David M. Malaspina, Juan Carlos Martínez Oliveros, Nicole Meyer-Vernet, Michel Moncuquet, Michael Stevens, Phyllis Whittlesey
ApJS **2019**
https://arxiv.org/pdf/1912.03371.pdf

2 Apr

Parker Solar Probe: Four Years of Discoveries at Solar Cycle Minimum **Review**
N. E. **Raouafi**, L. Matteini, J. Squire, S. T. Badman, M. Velli, +++
Space Science Reviews **2023** 157 pages, 65 figures
https://arxiv.org/pdf/2301.02727.pdf

Spatial distribution of jets in solar active regions
Jonas **Odermatt**, Krzysztof Barczynski, Louise K. Harra, Conrad Schwanitz, Säm Krucker
A&A **2022**
https://arxiv.org/pdf/2207.09923.pdf

Internal Structure of the 2019 April 2 CME
Brian E. **Wood**, Carlos R. Braga, Angelos Vourlidas
ApJ **2021**
https://arxiv.org/pdf/2110.14083.pdf

Small Electron Events Observed by Parker Solar Probe/IS⊙IS during Encounter 2
J. G. **Mitchell1**,2, G. A. de Nolfo2, M. E. Hill3, E. R. Christian2, D. J. McComas4

2020 ApJ 902 20
https://doi.org/10.3847/1538-4357/abb2a4
https://iopscience.iop.org/article/10.3847/1538-4357/abb2a4/pdf

The Solar Origin of Particle Events Measured by Parker Solar Probe
Athanasios **Kouloumvakos**1, Angelos Vourlidas2, Alexis P. Rouillard1, Edmond C. Roelof2, Rick Leske3, Rui Pinto1, and Nicolas Poirier1
2020 ApJ 899 107
https://doi.org/10.3847/1538-4357/aba5a1

Modeling the Transport Processes of a Pair of Solar Energetic Particle Events Observed by Parker Solar Probe Near Perihelion
Lulu **Zhao**1, Ming Zhang1, and David Lario2
2020 ApJ 898 16
https://doi.org/10.3847/1538-4357/ab97b3

3 Apr

Coronal Diagnostics of Solar Type-III Radio Bursts Using LOFAR and PSP Observations
Mohamed **Nedal**, Kamen Kozarev, Peijin Zhang, Pietro Zucca
A&A **2023**
https://arxiv.org/pdf/2310.02677.pdf

3-6 Apr

Weak Solar Radio Bursts from the Solar Wind Acceleration Region Observed by Parker Solar Probe and Its Probable Emission Mechanism
Ling **Chen**, Bing Ma, Dejin Wu, Xiaowei Zhou, Marc Pulupa, PeiJin Zhang, Pietro Zucca, Stuart D. Bale, Justin C. Kasper, SuPing Duan
ApJ **2023**
https://arxiv.org/pdf/2311.17819.pdf

3-9 Apr

Spectral Characteristics of Fundamental–Harmonic Pairs of Interplanetary Type III Radio Bursts Observed by PSP
Ling **Chen** (陈玲)1,2, Bing Ma (马兵)1, Dejin Wu (**吴德金**)1,2, Zongjun Ning (**宁宗**军)1, Xiaowei Zhou (**周**晓伟)1, and Stuart D. Bale3,4,5,6
2024 ApJL 975 L37
https://iopscience.iop.org/article/10.3847/2041-8213/ad89c2/pdf

4 Apr

Parker Solar Probe: Four Years of Discoveries at Solar Cycle Minimum **Review**
N. E. **Raouafi**, L. Matteini, J. Squire, S. T. Badman, M. Velli, +++
Space Science Reviews **2023** 157 pages, 65 figures
https://arxiv.org/pdf/2301.02727.pdf

Spatial distribution of jets in solar active regions
Jonas **Odermatt**, Krzysztof Barczynski, Louise K. Harra, Conrad Schwanitz, Säm Krucker
A&A **2022**
https://arxiv.org/pdf/2207.09923.pdf

The Solar Origin of Particle Events Measured by Parker Solar Probe
Athanasios **Kouloumvakos**1, Angelos Vourlidas2, Alexis P. Rouillard1, Edmond C. Roelof2, Rick Leske3, Rui Pinto1, and Nicolas Poirier1
2020 ApJ 899 107
https://doi.org/10.3847/1538-4357/aba5a1

Modeling the Transport Processes of a Pair of Solar Energetic Particle Events Observed by Parker Solar Probe Near Perihelion
Lulu **Zhao**1, Ming Zhang1, and David Lario2
2020 ApJ 898 16
https://doi.org/10.3847/1538-4357/ab97b3

Solar polarization observations at 3 and 13 mm
Kallunki, Juha; Tornikoski, Merja; Kirves, Petri; Oinaskallio, Erkki; Aatrokoski, Juha; Mujunen, Ari; Tammi, Joni
Astronomische Nachrichten, Volume 341, Issue 1, pp. 118-124, **2020**
https://onlinelibrary.wiley.com/doi/pdf/10.1002/asna.202013684

Observations of the 2019 April 4 Solar Energetic Particle Event at the Parker Solar Probe
R. A. **Leske**, E. R. Christian, C. M. S. Cohen, A. C. Cummings, A. J. Davis, M. I. Desai, J. Giacalone, M. E. Hill, C. J. Joyce, S. M. Krimigis, A. W. Labrador, O. Malandraki, W. H. Matthaeus, D. J. McComas, R. L. McNutt Jr., R. A. Mewaldt, D. G. Mitchell, A. Posner, J. S. Rankin, E. C. Roelof, N. A. Schwadron, E. C. Stone, J. R. Szalay, M. E. Wiedenbeck, A. Vourlidas, S. D. Bale, R. J. MacDowall, M. Pulupa, J. C. Kasper, R. C. Allen, A. W. Case, K. E. Korreck, R. Livi, M. L. Stevens, P. Whittlesey, B. Poduval
2020, ApJS, 246, 35
https://arxiv.org/pdf/1912.03384.pdf

5 Apr

Small Electron Events Observed by Parker Solar Probe/IS⊙IS during Encounter 2
J. G. **Mitchell**1,2, G. A. de Nolfo2, M. E. Hill3, E. R. Christian2, D. J. McComas4
2020 ApJ 902 20
https://doi.org/10.3847/1538-4357/abb2a4
https://iopscience.iop.org/article/10.3847/1538-4357/abb2a4/pdf

Time domain structures and dust in the solar vicinity: Parker Solar Probe observations
F.S. **Mozer**, O.V. Agapitov, S.D. Bale, J.W. Bonnell, K. Goetz, K.A. Goodrich, ...
First results from the **Parker Solar Probe 2020**
https://arxiv.org/ftp/arxiv/papers/1912/1912.09234.pdf

5-6 Apr

Discrepancy between the Low-frequency Cutoffs of Type III Radio Bursts Based on Simultaneous Observations by WIND and PSP
Bing **Ma** (马兵)1,2, Ling Chen (陈玲)1,3, Dejin Wu (吴德金)1,3, Marc Pulupa4, and Stuart D. Bale4
2022 ApJL 932 L26
https://iopscience.iop.org/article/10.3847/2041-8213/ac7525/pdf

6-9 Apr

Properties of Type III and Type IIIb Bursts in the Frequency Band of 8-80 MHz during PSP Perihelion at the Beginning of April 2019
V.N.**Melnik**, A.I. Brazhenko, A.A. Konovalenko, A.V. Frantsuzenko, S.M. Yerin, V.V. Dorovskyy, I.M. Bubnov
2020
https://arxiv.org/ftp/arxiv/papers/2012/2012.08495.pdf

8 Apr

Exploring the circular polarisation of low-frequency solar radio bursts with LOFAR
Diana E. **Morosan**, Juska E. Räsänen, Anshu Kumari, Emilia K. J. Kilpua, Mario M. Bisi, Bartosz Dabrowski, Andrzej Krankowski, Jasmina Magdalenić, Gottfried Mann, Hanna Rothkaehl, Christian Vocks, Pietro Zucca

Solar Phys. **2022**
https://arxiv.org/pdf/2203.14674.pdf

10 Apr

Deriving Large Coronal Magnetic Loop Parameters Using LOFAR J burst Observations
Jinge **Zhang**, Hamish A. S. Reid, Vratislav Krupar, Pietro Zucca, Bartosz Dabrowski, Andrzej Krankowski
Solar Phys. **2022**
https://arxiv.org/pdf/2212.02161.pdf

Light Bridges Can Suppress the Formation of Coronal Loops
Yuhu **Miao**, Libo Fu, Xian Du, Ding Yuan, Chaowei Jiang, Jiangtao Su, Mingyu Zhao, Sergey Anfinogentov
MNRAS **2021**
https://arxiv.org/pdf/2106.12833.pdf

10-15 Apr

Magnetic connectivity between the light bridge and penumbra in a sunspot
Song **Feng**, Yuhu Miao, Ding Yuan, Zhongquan Qu, Valery M. Nakariakov
ApJL **2020**
https://arxiv.org/pdf/2003.03976.pdf

11 Apr

Magnetic connections across the chromosphere-corona transition region
Philip G. **Judge**
ApJ **2021**
https://arxiv.org/pdf/2104.07753.pdf

12 Apr

Spatial distribution of jets in solar active regions
Jonas **Odermatt**, Krzysztof Barczynski, Louise K. Harra, Conrad Schwanitz, Säm Krucker
A&A **2022**
https://arxiv.org/pdf/2207.09923.pdf

Impulsive coronal heating during the interaction of surface magnetic fields in the lower solar atmosphere
L. P. **Chitta**, H. Peter, E. R. Priest, S. K. Solanki
A&A **2020**
https://arxiv.org/pdf/2010.12560.pdf

Periodicities in an active region correlated with Type III radio bursts observed by Parker Solar Probe
Cynthia **Cattell**, Lindsay Glesener, Benjamin Leiran, Keith Goetz, Juan Carlos Martínez Oliveros, Samuel T. Badman, Marc Pulupa, Stuart D. Bale
A&A **2020**
https://arxiv.org/pdf/2009.10899.pdf

13 Apr

Dark Halos around Solar Active Regions. I. Emission properties of the Dark Halo around NOAA 12706
Serena Maria **Lezzi**, Vincenzo Andretta, Mariarita Murabito, Giulio Del Zanna
A&A **2023**

https://arxiv.org/pdf/2309.11956.pdf

Temporal and spatial association between microwaves and type III bursts in the upper corona
A. T. **Altyntsev**1, H. Reid2, N. S. Meshalkina1, I. I. Myshyakov1 and D. A. Zhdanov1
A&A 671, A30 (**2023**)
https://www.aanda.org/articles/aa/pdf/2023/03/aa44599-22.pdf

Когерентное микроволновое излучение как индикатор нетеплового энерговыделения в рентгеновской корональной точке.
Алтынцев А.Т., Мешалкина Н.С., Мышьяков И.И.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 8. **2022**. № 2 С. 4–11.
https://naukaru.ru/ru/storage/viewWindow/94293
DOI: 10.12737/szf-82202201

Subarcsecond imaging of a solar active region filament with ALMA and IRIS
João M. Da Silva **Santos**, Stephen White, Stephen White, Kevin Reardon, Gianna Cauzzi, Stanislav Gunár, Petr Heinzel, Jorrit Leenaarts, and Jorrit Leenaarts
Front. Astron. Space Sci. 9: 898115. **2022**
https://www.frontiersin.org/articles/10.3389/fspas.2022.898115/pdf
https://arxiv.org/pdf/2204.13178.pdf

Heating of the solar chromosphere through current dissipation
J. M. da Silva **Santos**, S. Danilovic, J. Leenaarts, J. de la Cruz Rodríguez, X. Zhu, S. M. White, G. J. M. Vissers, M. Rempel
A&A **2022**
https://arxiv.org/pdf/2202.03955.pdf

ALMA observations of impulsive heating in a solar active region
J. M. da Silva **Santos**, J. de la Cruz Rodríguez, S. M. White, J. Leenaarts, G. J. M. Vissers, V. H. Hansteen
A&A **2020**
https://arxiv.org/pdf/2006.14564.pdf

Interferometric Imaging with LOFAR Remote Baselines of the Fine Structures of a Solar Type IIIb Radio Burst
PeiJin **Zhang**, Pietro Zucca, Sarrvesh Seethapuram Sridhar, ChuanBing Wang, Diana E. Morosan, Bartosz Dabrowski, Andrzej Krankowski, Mario M. Bisi, Jasmina Magdalenic, Christian Vocks, Gottfried Mann
A&A **2020**
https://arxiv.org/pdf/2005.09419.pdf

The Frequency Drift and Fine Structures of Solar S-bursts in the High Frequency Band of LOFAR
PeiJin **Zhang**1,2,3, Pietro Zucca3, ChuanBing Wang1,2,4, Mario M. Bisi5, Bartosz Dąbrowski6, Richard A. Fallows3, Andrzej Krankowski6, Jasmina Magdalenic7, Gottfried Mann8, Diana E. Morosan9Show full author list
2020 ApJ 891 89
sci-hub.si/10.3847/1538-4357/ab7005

14 Apr

Результаты совместных наблюдений на Солнечном спектрополяриметре метрового диапазона и ряде других инструментов.
Муратова Н. О., Федотова А. Ю., Шамсутдинова Ю. Н.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 8. **2022**. № 1 С. 24-33.

https://naukaru.ru/ru/storage/viewWindow/87260

Characteristics of Magnetic Holes in the Solar Wind Revealed by Parker Solar Probe
L. **Yu**, S. Y. Huang, Z. G. Yuan, K. Jiang, Q. Y. Xiong, S. B. Xu, Y. Y. Wei, J. Zhang, Z. H. Zhang
ApJ **2020**
https://arxiv.org/ftp/arxiv/papers/2010/2010.14008.pdf

15 Apr

The Solar Origin of an In Situ Type III Radio Burst Event
Meiqi **Wang** (1), Bin Chen (1), Sijie Yu (1), Dale E. Gary (1), Jeongwoo Lee (1, 2), Haimin Wang (1), Christina Cohen (3)
ApJ **2023**
https://arxiv.org/pdf/2306.01910.pdf

Spatial distribution of jets in solar active regions
Jonas **Odermatt**, Krzysztof Barczynski, Louise K. Harra, Conrad Schwanitz, Säm Krucker
A&A **2022**
https://arxiv.org/pdf/2207.09923.pdf

The Missing Cool Corona in the Flat Magnetic Field around Solar Active Regions
Talwinder **Singh**, Alphonse C. Sterling, Ronald L. Moore
2021
https://arxiv.org/pdf/2012.15406.pdf

17 Apr

Statistics and Polarization of Type III Radio Bursts Observed in the Inner Heliosphere
Marc **Pulupa**, Stuart D. Bale, Samuel T. Badman, John W. Bonnell, Anthony W. Case, Thierry Dudok de Wit, Keith Goetz, Peter R. Harvey, Alexander M. Hegedus, Justin C. Kasper, Kelly E. Korreck, Vladimir Krasnoselskikh, Davin Larson, Alain Lecacheux, Roberto Livi, Robert J. MacDowall, Milan Maksimovic, David M. Malaspina, Juan Carlos Martínez Oliveros, Nicole Meyer-Vernet, Michel Moncuquet, Michael Stevens, Phyllis Whittlesey
ApJS **2019**
https://arxiv.org/pdf/1912.03371.pdf

18-24 Apr

Seed Population Pre-Conditioning and Acceleration Observed by Parker Solar Probe
N. A. **Schwadron**, S. Bale, J. Bonnell, A. Case, E. R. Christian, C. M. S. Cohen, ...
ApJ **2019**
https://arxiv.org/pdf/1912.02888.pdf

19 Apr

Decay of a photospheric transient filament at the boundary of a pore and the chromospheric response
Philip **Lindner**, Rolf Schlichenmaier, Nazaret Bello González, Jaime de la Cruz Rodríguez
A&A **2023**
https://arxiv.org/pdf/2303.03072.pdf

Tracking a beam of electrons from the low solar corona into interplanetary space with the Low Frequency Array, Parker Solar Probe and 1 au spacecraft
Samuel T. **Badman**, Eoin P. Carley, Luis Alberto Cañizares, Nina Dresing, Lan K. Jian, David Lario, Peter T. Gallagher, Juan C. Martínez-Oliveros, Marc Pulupa, Stuart D. Bale
ApJ **2022**
https://arxiv.org/pdf/2204.08497.pdf

20-21 Apr

Parker Solar Probe: Four Years of Discoveries at Solar Cycle Minimum **Review**
N. E. **Raouafi**, L. Matteini, J. Squire, S. T. Badman, M. Velli, +++
Space Science Reviews **2023** 157 pages, 65 figures
https://arxiv.org/pdf/2301.02727.pdf

Observations and Simulations of Reconnecting Current Sheets in the Solar Corona
Spiro **Antiochos**, Pankaj Kumar, Judy Jarpen, and Joel Dahlin
EGU2020-5597 May **2020**
https://meetingorganizer.copernicus.org/EGU2020/displays/36057
Presentaton #5597 https://presentations.copernicus.org/EGU2020/presentations-ST1.7.zip

22 Apr
Partially Erupted Prominence Material as a Diagnostic of Coronal Mass Ejection Trajectory
B. A. **Hovis-Afflerbach**, B. J. Thompson, E. I. Mason
Space Weather Volume21, Issue8 August **2023** e2022SW003256
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2022SW003256

24 Apr
A reconnection driven magnetic flux cancellation and a quiet Sun Ellerman bomb
Anjali. J. **Kaithakkal**, J. M. Borrero, A. Pastor Yabar, J. de la Cruz Rodríguez
MNRAS **2023**
https://arxiv.org/pdf/2303.06331.pdf

25 Apr
Multiheight Observations of Atmospheric Gravity Waves at Solar Disk Center
Oana **Vesa**1, Jason Jackiewicz1, and Kevin Reardon2
2023 ApJ 952 58
https://iopscience.iop.org/article/10.3847/1538-4357/acd930/pdf

29 Apr
Small-scale solar surface magnetism
Robert J. **Rutten**
Brief review in monograph "Solar Magnetic Variability and Climate" by C. de Jager, S. Duhau, A.C.T. Nieuwenhuizen, 2020, Stip Media, Alkmaar **2021**
https://arxiv.org/pdf/2105.14533.pdf

30 Apr ~14 UT, чёткий гало CME, видимо, от эрупции из крупной AR2738, находящейся на невидимой стороне Солнца. См. SDO
http://www.spaceweather.com/images2019/30apr19/c2_anim.gif и STEREO-A

2 May
On the Impulsive Heating of Quiet Solar Corona
Vishal **Upendran** (IUCAA, Pune), Durgesh Tripathi (IUCAA, Pune)
ApJ **2021**
https://arxiv.org/pdf/2103.16824.pdf

3-4 May - C1 и C2 вспышки из выходящей из-за E-лимба AR2740, CMEs
http://www.spaceweather.com/images2019/04may19/cme_anim.gif

5 May

Dark Halos around Solar Active Regions. I. Emission properties of the Dark Halo around NOAA 12706
Serena Maria **Lezzi**, Vincenzo Andretta, Mariarita Murabito, Giulio Del Zanna
A&A **2023**
https://arxiv.org/pdf/2309.11956.pdf

ORFEES – a radio spectrograph for the study of solar radio bursts and space weather applications
Abdallah **Hamini**1,2, Gabriel Auxepaules2, Lionel Birée3, Guy Kenfack2, Alain Kerdraon1, Karl-Ludwig Klein1,2*, Patrice Lespagnol2, Sophie Masson1,2, Lucile Coutouly2, Christian Fabrice2 and Renaud Romagnan1
J. Space Weather Space Clim. **2021**, 11, 57
https://www.swsc-journal.org/articles/swsc/pdf/2021/01/swsc210035.pdf
https://doi.org/10.1051/swsc/2021039

5-6 May
Temporal evolution of small-scale internetwork magnetic fields in the solar photosphere
Ryan J. **Campbell**, Mihalis Mathioudakis, Manuel Collados, Peter H. Keys, Andrés Asensio Ramos, Chris J. Nelson, David Kuridze, Aaron Reid
A&A **2021**
https://arxiv.org/pdf/2102.00942.pdf

6 May - Несколько импульсных (**spike**) вспышек до балла M1, CMEs

Study of Fine Radio-Burst Structures (FRBS) Observed by the Mexican Array Radio Telescope (MEXART)
G. A. **Casillas-Pérez**, A. Carrillo-Vargas, V. De La Luz & E. Huipe-Domratcheva
Solar Physics volume 297, Article number: 84 (**2022**)
https://doi.org/10.1007/s11207-022-02023-3

On the radiative losses in the chromosphere during a C-class flare
Rahul **Yadav**, J. de la Cruz Rodríguez, Graham S. Kerr, C. J. Díaz Baso, Jorrit Leenaarts
A&A **2022**
https://arxiv.org/pdf/2207.02840

Dynamics and Kinematics of the EUV Wave Event on 6 May 2019
Ramesh **Chandra**, P. F. Chen, Pooja Devi, Reetika Joshi, Y. W. Ni
Galaxies Journal **2022**
https://arxiv.org/ftp/arxiv/papers/2204/2204.04936.pdf

Результаты совместных наблюдений на Солнечном спектрополяриметре метрового диапазона и ряде других инструментов.
Муратова Н. О., Федотова А. Ю., Шамсутдинова Ю. Н.
СОЛНЕЧНО-ЗЕМНАЯ ФИЗИКА Том 8. **2022**. № 1 С. 24-33.
https://naukaru.ru/ru/storage/viewWindow/87260

First Solar Radio Burst Observations by the Mexican Array Radio Telescope (MEXART) at 140 MHz
E. **Huipe-Domratcheva**, V. De la Luz, G. A. Casillas-Perez, J. C. Mejia-Ambriz, E. Perez-Leon, J. A. Gonzalez-Esparza, C. Monstein & W. Reeve
Solar Physics volume 297, Article number: 9 (**2022**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01916-z.pdf

A Solar FRB
D. **Gary**, H. Hudson

RHESSI Nuggets #400 February **2021**
https://sprg.ssl.berkeley.edu/~tohban/wiki/index.php/A_Solar_FRB

Stratification of physical parameters in a C-class solar flare using multi-line observations
Rahul **Yadav**, C. J. D. Baso, J. de la Cruz Rodr'iguez, F. Calvo, R. Morosin
A&A 649, id.A106, **2021**
https://arxiv.org/pdf/2011.02953.pdf
https://www.aanda.org/articles/aa/pdf/2021/05/aa39857-20.pdf

First Solar energetic particles measured on the Lunar far-side
Zigong **Xu**, Jingnan Guo, Robert. F. Wimmer-Schweingruber, Johan L. Freiherr von Forstner, Henning Lohf, Yuming Wang, Nina Dresing, Shenyi Zhang, Mei Yang
ApJ Letter **2020**
https://arxiv.org/pdf/2008.03492.pdf

Solar Radio Observation Using CALLISTO at the USO/PRL, Udaipur
Kushagra **Upadhyay**, Bhuwan Joshi, Prabir K. Mitra, Ramit Bhattacharyya, Divya Oberoi, Christian Monstein
IEEE, 2019 IEEE MTT-S International Microwave and RF Conference (IMARC) **2020**
https://arxiv.org/pdf/2007.01655.pdf

МНОГОВОЛНОВЫЙ СИБИРСКИЙ РАДИОГЕЛИОГРАФ
Алтынцев А.Т., С.В. Лесовой, М.В. Глоба, А.В. Губин, А.А. Кочанов, В.В. Гречнев и др.
Солнечно-земная физика. ***2020****. Т. 6. № 2, с. 37-50*
DOI: 10.12737/szf-62202003

A small-scale filament eruption inducing Moreton Wave, EUV Wave and Coronal Mass Ejection
Jincheng **Wang**, Xiaoli Yan, Defang Kong, Zhike Xue, Liheng Yang, Qiaoling Li
ApJ **2020**
https://arxiv.org/pdf/2004.07488.pdf

7 May

Dynamics evolution of a solar active-region filament from quasi-static state to eruption: rolling motion, untwisting motion, material transfer, and chirality
X.L. **Yan**, Q.L. Li, G.R. Chen, Z.K. Xue, L. Feng, J.C. Wang, L.H. Yang, Y. Zhang
ApJ **2020**
https://arxiv.org/pdf/2009.10345.pdf

7-8 May – несколько квази-LDE вспышек

Coronal Condensation as the Source of Transition Region Supersonic Downflows above a Sunspot
Hechao **Chen**, Hui Tian, Leping Li, Hardi Peter, Lakshmi Pradeep Chitta, Zhenyong Hou
A&A **2021**
https://arxiv.org/pdf/2112.01354.pdf

9 May - ~05:50: C6.7 **spike-flare**

Analysis of the Evolution of a Multi-Ribbon Flare and Failed Filament Eruption
Reetika **Joshi**, Cristina H. Mandrini, Ramesh Chandra, Brigitte Schmieder, Germán D. Cristiani, Cecilia Mac Cormack, Pascal Démoulin, Hebe Cremades
Solar Phys. **2022**

https://arxiv.org/pdf/2206.00531.pdf

Simultaneous Observations of Chromospheric Evaporation and Condensation during a C-class Flare
Dong **Li**, Zhenxiang Hong, Zongjun Ning
ApJ **2021**
https://arxiv.org/pdf/2112.06118.pdf

Multi-Wavelength Observations of Quasi-Periodic Pulsations in a Solar Flare
Zhenxiang **Hong**, Dong Li, Minghui Zhang, Chengming Tan, Suli Ma & Haisheng Ji
Solar Physics volume 296, Article number: 171 (**2021**)
https://link.springer.com/content/pdf/10.1007/s11207-021-01922-1.pdf
https://doi.org/10.1007/s11207-021-01922-1

Solar polarization observations at 3 and 13 mm
Kallunki, Juha; Tornikoski, Merja; Kirves, Petri; Oinaskallio, Erkki; Aatrokoski, Juha; Mujunen, Ari; Tammi, Joni
Astronomische Nachrichten, Volume 341, Issue 1, pp. 118-124, **2020**
https://onlinelibrary.wiley.com/doi/pdf/10.1002/asna.202013684

Triggering mechanism and material transfer of a failed solar filament eruption
X.L. **Yan**, Z.K. Xue, X. Cheng, J. Zhang, J.C. Wang, D.F. Kong, L.H. Yang, G.R. Chen, X.S. Feng
ApJ **2019**
https://arxiv.org/pdf/1912.07173.pdf

10-11 May - The movie shows two magnetic filaments erupting in quick succession. Ejecta from the two explosions have combined to form a CME

11 May – geomagnetic storm Dst~ -52 (due to CME of 6 May)

ГЕОЭФФЕКТИВНЫЕ ВОЗМУЩЕНИЯ В СОЛНЕЧНОМ ВЕТРЕ ВБЛИЗИ МИНИМУМА СОЛНЕЧНОЙ АКТИВНОСТИ ПО ДАННЫМ ДВУХЛЕТНЕЙ СЕРИИ НАБЛЮДЕНИЙ МЕЖПЛАНЕТНЫХ МЕРЦАНИЙ НА РАДИОТЕЛЕСКОПЕ БСА ФИАН

ЧАШЕЙ И. В.*✉1, ЛЕБЕДЕВА Т. О.1, ТЮЛЬБАШЕВ С. А.1, СУБАЕВ И. А.1

АЖ Том: 98Номер: 11 Год: **2021** Страницы: 949-968

Space Weather Magnetometer Aboard GEO-KOMPSAT-2A
W. **Magnes**, O. Hillenmaier, […] , C. H. Lee
Space Science Reviews volume 216, Article number: 119 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11214-020-00742-2.pdf
https://link.springer.com/article/10.1007/s11214-020-00742-2

12 May - ~20 UT: B2-3 LDE flare, halo CME from AR2741
Region 12741 [N05W02] was the origin of a filament eruption that began at 17:55 UT. At least a partial halo CME was observed in LASCO imagery later on.

Various Activities above Sunspot Light Bridges in IRIS Observations: Classification and Comparison
Yijun **Hou**, Ting Li, Shuhong Yang, Shin Toriumi, Yilin Guo, Jun Zhang
ApJ **2022**
https://arxiv.org/pdf/2202.10159.pdf

13 May - An area just south of AR 12741 and at the solar equator, erupted starting near 15:01.

Three and possibly four CMEs are en route to Earth following a series of explosions near sunspot AR2741.

Sunspot penumbral filaments intruding into a light bridge and the resultant reconnection jets
Y. J. **Hou**, T. Li, S. H. Zhong, S. H. Yang, Y. L. Guo, X. H. Li, J. Zhang, Y. Y. Xiang
A&A **2020**
https://arxiv.org/pdf/2008.01284.pdf

13-14 May

MHD-Test Particles Simulations of Moderate CME and CIR-Driven Geomagnetic Storms at Solar Minimum
Mary K. **Hudson**,Scot R. Elkington,Zhao Li,Maulik Patel,Kevin Pham,Kareem Sorathia,Alex Boyd,Allison Jaynes,Alexis Leali
Space Weather e2021SW002882 **2021**
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2021SW002882
https://doi.org/10.1029/2021SW002882

14 May - **Geostorm Dst~-65, Kp~7** due to a series of CMEs on 10-12 May

15 May
A solar flare driven by thermal conduction observed in mid-infrared
Fernando M. **López**, C. Guillermo Giménez de Castro, Cristina H. Mandrini, Paulo J. A. Simões, Germán D. Cristiani, Dale E. Gary, Carlos Francile, Pascal Démoulin
A&A **2021**
https://arxiv.org/pdf/2110.15751.pdf

19 May
Formation and Evolution of Transient Prominence Bubbles Driven by Erupting Mini-filaments
Yilin **Guo**, Yijun Hou, Ting Li, Yuandeng Shen, Jincheng Wang, Jun Zhang, Jianchuan Zheng, Dong Wang, Lin Mei
ApJ **2024**
https://arxiv.org/pdf/2405.04725

20 May

Solar nanoflares in different spectral ranges
S. A. **Belov**1,2, S. A. Bogachev1,3, L. S. Ledentsov1,4 and D. I. Zavershinskii1,2
A&A, 684, A60 (**2024**)
https://www.aanda.org/articles/aa/pdf/2024/04/aa48199-23.pdf

ИЗМЕРЕНИЕ ЭНЕРГЕТИЧЕСКОГО РАСПРЕДЕЛЕНИЯ НАНОВСПЫШЕКМАЛОЙ МОЩНОСТИ
Богачёв С.А., Ерхова Н.Ф.
СЗФ Том: 9Номер: 1 Год: **2023** Страницы: 3-9
https://elibrary.ru/download/elibrary_50417067_38172738.pdf

МЕТОД ПОИСКА НАНОВСПЫШЕК И ИХ ПРОСТРАНСТВЕННОЕ РАСПРЕДЕЛЕНИЕ В КОРОНЕ СОЛНЦА
Завершинский Д.И., Богачёв С.А., Белов С.А., Леденцов Л.С.
ПАЖ Том: 48Номер: 9 Год: **2022** Страницы: 665-675

26 May

High-resolution spectroscopy of an erupting minifilament and its impact on the nearby chromosphere
I. **Kontogiannis**, E. Dineva, A. Diercke, M. Verma, C. Kuckein, H. Balthasar, C. Denker
ApJ **2020**
https://arxiv.org/pdf/2007.01564.pdf

30 May
Identifying 8 mm Radio Brightenings During the Solar Activity Minimum
Juha **Kallunki**, Merja Tornikoski & Irene Björklund
Solar Physics volume 295, Article number: 105 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01673-5.pdf

2 June
Identifying 8 mm Radio Brightenings During the Solar Activity Minimum
Juha **Kallunki**, Merja Tornikoski & Irene Björklund
Solar Physics volume 295, Article number: 105 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01673-5.pdf

6 June

Properties of shock waves in the quiet Sun chromosphere
Harsh Mathur, Jayant Joshi, K. Nagaraju, Luc Rouppe van der Voort, Souvik Bose
A&A **2022**
https://arxiv.org/pdf/2210.01045.pdf

Properties of ubiquitous magnetic reconnection events in the lower solar atmosphere
Jayant **Joshi**, Luc H. M. Rouppe van der Voort
A&A **2022**
https://arxiv.org/pdf/2203.08172.pdf

Signatures of ubiquitous magnetic reconnection in the lower solar atmosphere⋆
Jayant **Joshi**1,2, Luc H. M. Rouppe van der Voort1,2 and Jaime de la Cruz Rodríguez3
A&A 641, L5 (**2020**)
https://www.aanda.org/articles/aa/pdf/2020/09/aa38769-20.pdf
https://arxiv.org/pdf/2006.14975.pdf

7 June - A small filament eruption was observed to the south of AR S6184 late on June 7. While no CME was observed in LASCO imagery, the location of the eruption was near center disk, and may have caused a CME too small to be visible in available imagery.

Rapid Evolution of Type II Spicules Observed in Goode Solar Telescope On-Disk Hα Images
Vasyl **Yurchyshyn**, 1 Wenda Cao, 1 Valentina Abramenko, 2 Xu Yang, 1 and Kyung-Suk Cho
ApJ **2020**
http://www.bbso.njit.edu/~vayur/spicules2019.pdf

8 June - Положительный всплеск Dst ~ 36 nT. Возможно, от CME 3 июня, наблюдавшегося со STEREO-A.
Saturday, June 8th, a dense and strongly-magnetized cloud of plasma hit Earth's magnetic field. The gaseous material appears to be the flank of a coronal mass ejection (CME). The solar storm cloud left the sun on June 3rd, shown here in a movie http://www.spaceweather.com/images2019/08jun19/slowcme_anim_strip.gif?PHPSESSID=2r52ufgmenjrm121bn46sjv653

10 June

Reconstructing 3D Magnetic Topology of On-disk Prominence Bubbles from Stereoscopic Observations
Yilin **Guo**, Yijun Hou, Ting Li, Jun Zhang
ApJL **2021**
https://arxiv.org/pdf/2103.07860.pdf

16 June
Identifying 8 mm Radio Brightenings During the Solar Activity Minimum
Juha **Kallunki**, Merja Tornikoski & Irene Björklund
Solar Physics volume 295, Article number: 105 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11207-020-01673-5.pdf

28 June
Velocity difference of ions and neutrals in solar prominences
Eberhard **Wiehr**, Goetz Stellmacher, Horst Balthasar, Michele Bianda
2021
https://arxiv.org/pdf/2108.13103.pdf
30 Jun
SIP-IFVM: An efficient time-accurate implicit MHD model of corona and CME with strong magnetic field
H. P. **Wang**, J. H. Guo, L. P. Yang, S. Poedts, F. Zhang, A. Lani, T. Baratashvili, L. Linan, R. Lin, Y. Guo
A&A **2024**
https://arxiv.org/pdf/2409.02022

2 July - a **total solar eclipse** will pass over Chile See https://eclipsecamera.com
- слабая эрупция **NE волокна**

The Solar Minimum Eclipse of 2019 July 2. III. Inferring the Coronal Te with a Radiative Differential Emission Measure Inversion
Benjamin **Boe**1, Cooper Downs2, and Shadia Habbal1
2023 ApJ 951 55
https://iopscience.iop.org/article/10.3847/1538-4357/acd10b/pdf
https://arxiv.org/pdf/2306.04826.pdf

Self-consistent propagation of flux ropes in realistic coronal simulations
L. **Linan**, F. Regnault, B. Perri, M. Brchnelova, B. Kuzma, A. Lani, S. Poedts, B. Schmieder
A&A **2023**
https://arxiv.org/pdf/2305.02089.pdf

COCONUT, a Novel Fast-converging MHD Model for Solar Corona Simulations. III. Impact of the Preprocessing of the Magnetic Map on the Modeling of the Solar Cycle Activity and Comparison with Observations
Błażej **Kuźma**1, Michaela Brchnelova1, Barbara Perri1, Tinatin Baratashvili1, Fan Zhang1, Andrea Lani1, and Stefaan Poedts1,2
2023 ApJ 942 31
https://iopscience.iop.org/article/10.3847/1538-4357/aca483/pdf

COCONUT, a Novel Fast-converging MHD Model for Solar Corona Simulations. II. Assessing the Impact of the Input Magnetic Map on Space-weather Forecasting at Minimum of Activity
Barbara **Perri**1, Błażej Kuźma1, Michaela Brchnelova1, Tinatin Baratashvili1, Fan Zhang1, Peter Leitner2, Andrea Lani1, and Stefaan Poedts1,3
2023 ApJ 943 124

https://arxiv.org/pdf/2210.06165.pdf
https://iopscience.iop.org/article/10.3847/1538-4357/ac9799/pdf

Coronal Densities, Temperatures, and Abundances during the 2019 Total Solar Eclipse: The Role of Multiwavelength Observations in Coronal Plasma Characterization
Giulio Del **Zanna**1, Jenna Samra2, Austin Monaghan3, Chad Madsen2, Paul Bryans3, Edward DeLuca2, Helen Mason1, Ben Berkey3, Alfred de Wijn3, and Yeimy J. Rivera2
2023 ApJS 265 11
https://iopscience.iop.org/article/10.3847/1538-4365/acad68/pdf
https://arxiv.org/pdf/2212.11889.pdf

The Solar Minimum Eclipse of 2019 July 2. II. The First Absolute Brightness Measurements and MHD Model Predictions of Fe x, xi, and xiv out to 3.4 R⊙
Benjamin **Boe**1, Shadia Habbal1, Cooper Downs2, and Miloslav Druckmüller3
2022 ApJ 935 173
https://iopscience.iop.org/article/10.3847/1538-4357/ac8101/pdf
https://arxiv.org/pdf/2206.10106.pdf

New Observations of the IR Emission Corona from the 2019 July 2 Eclipse Flight of the Airborne Infrared Spectrometer
Jenna E. **Samra**1, Chad A. Madsen1, Peter Cheimets1, Edward E. DeLuca1, Leon Golub1, Vanessa Marquez1, and Naylynn Tañón Reyes2
2022 ApJ 933 82
https://iopscience.iop.org/article/10.3847/1538-4357/ac6ce8/pdf

Polarization of the Corona Observed During the 2017 and 2019 Total Solar Eclipses
Yoichiro **Hanaoka**, Yoshiaki Sakai, Koichi Takahashi
Solar Phys. **2021**
https://arxiv.org/pdf/2109.12263.pdf

Cosmic Meteorology
Mike **Lockwood**, Mat Owens
Astronomy and Geophysics **2021**
https://arxiv.org/ftp/arxiv/papers/2105/2105.12559.pdf

The Color and Brightness of the F-Corona Inferred from the 2019 July 2 Total Solar Eclipse
Benjamin **Boe**, Shadia Habbal, Cooper Downs, Miloslav Druckmuller
ApJ **2021**
https://arxiv.org/pdf/2103.02113.pdf

Compositing Eclipse Images from the Ground and from Space
Christian A**. Lockwood**1, Jay M. Pasachoff1, Daniel B. Seaton2, David H. Sliski3, and Nicolas Lefaudeux4
2020 Res. Notes AAS 4 133
https://doi.org/10.3847/2515-5172/abacb5
https://iopscience.iop.org/article/10.3847/2515-5172/abacb5

Coronal Magnetic Field Topology From Total Solar Eclipse Observations
Benjamin **Boe**, Shadia Habbal, Miloslav Druckmuller
ApJ **2020**
https://arxiv.org/pdf/2004.08970.pdf

The 2019 July 2 Total Solar Eclipse: Prediction of the Coronal Magnetic Field Structure and Polarization Characteristics
Soumyaranjan **Dash**, Prantika Bhowmik, Athira B S, Nirmalya Ghosh, Dibyendu Nandy

2019
https://arxiv.org/pdf/1906.10201.pdf

Prediction of the Sun's Corona for the Total Solar Eclipse on 2019 July 2
Soumyaranjan **Dash**, Prantika Bhowmik, and Dibyendu Nandy
Res. Notes AAS 3 86 **2019**
https://iopscience.iop.org/article/10.3847/2515-5172/ab2ae3

See **А С Т Р О К У Р Ь Е Р № 7 июль 2019 г.**

6-14 Jul
Oscillation Dynamics in Short-Lived Facula Regions during Their Lifetime
Andrei **Chelpanov**, Nikolai Kobanov
ApJ **2022**
https://arxiv.org/pdf/2202.07239.pdf

7 Jul
Photospheric Swirls in a Quiet-Sun Region
Quan **Xie**, Jiajia Liu, Chris J. Nelson, Robert Erdélyi, Yuming Wang
ApJ **2024**
https://arxiv.org/pdf/2412.03816

8 July - Положительный всплеск Dst ~ 40 nT. Возможно, от эрупции 2 июля,

Magnetic connections across the chromosphere-corona transition region
Philip G. **Judge**
ApJ **2021**
https://arxiv.org/pdf/2104.07753.pdf

8-14 July
Multilevel Observations of the Oscillations in the First Active Region of the New Cycle
Andrei **Chelpanov**, Nikolai Kobanov
2020
https://arxiv.org/pdf/2006.05223.pdf

10 July - небольшая буря **Dst~-30 nT** due to effects from CH928

29 Jul
Magnetic Reconnection as the Driver of the Solar Wind
Nour E. **Raouafi**1, G. Stenborg1, D. B. Seaton2, H. Wang3,4,5, J. Wang3,4,5, C. E. DeForest2, S. D. Bale6,7, J. F. Drake8, V. M. Uritsky9,10, J. T. Karpen10Show full author list
2023 ApJ 945 28
https://iopscience.iop.org/article/10.3847/1538-4357/acaf6c/pdf

4 Aug
Resolving moving heliospheric structures using interplanetary scintillation observations with the Murchison Widefield Array
A. **Waszewski**, J.S. Morgan, R. Chhetri, R. Ekers, M.C.M. Cheung, N.D.R Bhat, M. Johnston-Hollitt
Space Weather **2023**
https://arxiv.org/pdf/2309.10349.pdf

5 Aug = буря **Dst~-49 nT от корональной дыры** CH932. Solar wind is currently blowing around Earth faster than **700 km/s** (1.6 million mph)--the highest speeds observed so far in 2019.

Operational Dst index prediction model based on combination of artificial neural network and empirical model Wooyeon
Park1,2,3, Jaejin Lee3,4,*, Kyung-Chan Kim5 , …..
J. Space Weather Space Clim. **2021**, 11, 38
https://www.swsc-journal.org/articles/swsc/pdf/2021/01/swsc200062.pdf
https://doi.org/10.1051/swsc/2021021

8 Aug
Space Weather Magnetometer Aboard GEO-KOMPSAT-2A
W. **Magnes**, O. Hillenmaier, […] , C. H. Lee
Space Science Reviews volume 216, Article number: 119 (**2020**)
https://link.springer.com/content/pdf/10.1007/s11214-020-00742-2.pdf
https://link.springer.com/article/10.1007/s11214-020-00742-2

12-13 Aug **streamer blowout filament associated CME**

The initiation of a solar streamer blowout coronal mass ejection arising from the streamer flank
Ruisheng **Zheng**, Yao Chen, Bing Wang
ApJL **2020**
https://arxiv.org/pdf/2007.00896.pdf

13 Aug
Chromospheric swirls
I. Automated detection in Hα observations and their statistical properties⋆
I. **Dakanalis**1,2, G. Tsiropoula2, K. Tziotziou2 and I. Kontogiannis3
A&A 663, A94 (**2022**)
https://www.aanda.org/articles/aa/pdf/2022/07/aa43236-22.pdf

22 Aug-14 Sep
On the origin of switchbacks observed in the solar wind
Forrest S. **Mozer**, Stuart Bale, John Bonnell, James Drake, Elizabeth Hanson, Michael C. Mozer
2021
https://arxiv.org/ftp/arxiv/papers/2105/2105.07601.pdf

24 Aug
Small-scale Magnetic Flux Ropes in Stream Interaction Regions from Parker Solar Probe and Wind Spacecraft Observations
Yu **Chen**1, Qiang Hu1,2, Robert C. Allen3, and Lan K. Jian4
2023 ApJ 943 33
https://iopscience.iop.org/article/10.3847/1538-4357/aca894/pdf

28 Aug
Tracking Movement of Long-lived Equatorial Coronal Holes from Analysis of Long-term McIntosh Archive Data
Jacob **Harris**1, Mausumi Dikpati2, Ian M. Hewins2, Sarah E. Gibson2, Scott W. McIntosh2, Subhamoy Chatterjee3, and Thomas A. Kuchar4
2022 ApJ 931 54
https://iopscience.iop.org/article/10.3847/1538-4357/ac67f2/pdf

31 Aug – 1 Sept - a major geomagnetic storm **Dst~-57 nT** due to effects from a large recurrent trans equatorial coronal hole CH935

MHD-Test Particles Simulations of Moderate CME and CIR-Driven Geomagnetic Storms at Solar Minimum

Mary K. **Hudson**,Scot R. Elkington,Zhao Li,Maulik Patel,Kevin Pham,Kareem Sorathia,Alex Boyd,Allison Jaynes,Alexis Leali
Space Weather e2021SW002882 **2021**
https://agupubs.onlinelibrary.wiley.com/doi/epdf/10.1029/2021SW002882
https://doi.org/10.1029/2021SW002882

Sep 2019

A Self-consistent Simulation of Proton Acceleration and Transport Near a High-speed Solar Wind Stream
Nicolas **Wijsen**, Evangelia Samara, Àngels Aran, David Lario, Jens Pomoell, Stefaan Poedts
ApJ **2021**
https://arxiv.org/pdf/2102.10950.pdf

Transport Near a High-speed Solar Wind Stream
Nicolas **Wijsen**1, Evangelia Samara1,2, Àngels Aran3, David Lario4, Jens Pomoell5, and Stefaan Poedts1,6
2021 ApJL 908 L26
https://doi.org/10.3847/2041-8213/abe1cb

Осень 2019

ВЛИЯНИЕ ПОЛЯРНЫХ КОРОНАЛЬНЫХ ДЫР НА ХАРАКТЕРИСТИКИ СОЛНЕЧНОГО ВЕТРА В МИНИМУМЕ АКТИВНОСТИ МЕЖДУ 24 И 25 СОЛНЕЧНЫМИ ЦИКЛАМИ

БОРИСЕНКО А. В.1, БОГАЧЁВ С. А.1
ПАЖ Том: 46Номер: 11 Год: **2020** Страницы: 802-813

1 Sep

Oscillations in the line-of-sight magnetic field strength in a pore observed by the GREGOR Infrared Spectrograph (GRIS)
C. J. **Nelson**, R. J. Campbell and M. Mathioudakis
A&A 654, A50 (**2021**)
https://www.aanda.org/articles/aa/pdf/2021/10/aa41368-21.pdf

2 Sep

Encounter of Parker Solar Probe and a Comet-like Object During Their Perihelia: Model Predictions and Measurements
Jiansen **He**, Bo Cui, Liping Yang, Chuanpeng Hou, Lei Zhang, Wing-Huen Ip, Yingdong Jia, Chuanfei Dong, Die Duan, Qiugang Zong, Stuart D. Bale, Marc Pulupa, John W. Bonnell, Thierry Dudok de Wit, Keith Goetz, Peter R. Harvey, Robert J. MacDowall, David M. Malaspina
2021 *ApJ* **910** 7
https://arxiv.org/pdf/2012.00005.pdf
https://doi.org/10.3847/1538-4357/abdf4a

4 Sep

Propagating and Stationary Bright Knots in the Quiet Sun
Jun **Zhang**1, Yijun Hou2, Yue Fang1, Feng Chen3, Ting Li2 +++
2023 ApJL 942 L2
https://iopscience.iop.org/article/10.3847/2041-8213/aca97b/pdf

7 Sep

Thermodynamic properties of small flares in the quiet Sun observed by Hα and EUV: plasma motion of the chromosphere and time evolution of temperature/emission measure
Yuji **Kotani**, Takako T. Ishii, Daiki Yamasaki, Kenichi Otsuji, Kiyoshi Ichimoto, Ayumi Asai, Kazunari Shibata
MNRAS **2023**
https://arxiv.org/pdf/2304.12037.pdf

Unified Relationship between Cold Plasma Ejections and Flare Energies Ranging from Solar Microflares to Giant Stellar Flares
Yuji **Kotani**, Kazunari Shibata, Takako T. Ishii, Daiki Yamasaki, Kenichi Otsuji, Kiyoshi Ichimoto, Ayumi Asai
ApJ **943** 143 **2022**
https://arxiv.org/pdf/2212.08850.pdf

9-14 Sep
Evolution of exploding granules from coordinated observations by THEMIS, IRIS, SDO/HMI, and HINODE, and a simulation
T. **Roudier**, J.M. Malherbe, B. Gelly, R. Douet, Z. Frank, K. Dalmasse
A&A **2020**
https://arxiv.org/ftp/arxiv/papers/2007/2007.12438.pdf

12-29 Sep
Observations of the Quiet Sun During the Deepest Solar Minimum of the Past Century with Chandrayaan-2 XSM -- Sub-A Class Microflares Outside Active Regions
Santosh V. **Vadawale**, N. P. S. Mithun, Biswajit Mondal, Aveek Sarkar, P. Janardhan, Bhuwan Joshi, Anil Bhardwaj, M. Shanmugam, Arpit R. Patel, Hitesh Kumar L. Adalja, Shiv Kumar Goyal, Tinkal Ladiya, Neeraj Kumar Tiwari, Nishant Singh, Sushil Kumar
ApJL **2021**
https://arxiv.org/pdf/2103.16644.pdf

15-16 Sep
Automatic Computation of Linear Magneto-Hydro-Static Equilibria
Thomas **Wiegelmann** & Maria S. Madjarska
Solar Physics volume 298, Article number: 3 (**2023**)
https://link.springer.com/content/pdf/10.1007/s11207-022-02094-2.pdf

17 Sep
Observations of the Quiet Sun During the Deepest Solar Minimum of the Past Century with Chandrayaan-2 XSM -- Elemental Abundances in the Quiescent Corona
Santosh V. **Vadawale**, Biswajit Mondal, N. P. S. Mithun, Aveek Sarkar, P. Janardhan, Bhuwan Joshi, Anil Bhardwaj, M. Shanmugam, Arpit R. Patel, Hitesh Kumar L. Adalja, Shiv Kumar Goyal, Tinkal Ladiya, Neeraj Kumar Tiwari, Nishant Singh, Sushil Kumar
ApJL **2021**
https://arxiv.org/pdf/2103.16643.pdf

18 Sep
The Balloon-borne Investigation of Temperature and Speed of Electrons in the corona (BITSE): Mission Description and Preliminary Results
N. **Gopalswamy**, J. Newmark, S. Yashiro, P. Mäkelä, N. Reginald, N. Thakur, Q. Gong, Y-H. Kim, K-S. Cho, S-H. Choi, J-H. Baek, S-C. Bong, H-S. Yang, J-Y. Park, J-H. Kim, Y-D. Park, J.-O. Lee, R.-S. Kim, E.-K. Lim
Solar Phys. **296**, Article number: 15 (**2021**)
https://arxiv.org/ftp/arxiv/papers/2011/2011.06111.pdf
https://link.springer.com/content/pdf/10.1007/s11207-020-01751-8.pdf

19-23 Sep

A Self-consistent Simulation of Proton Acceleration and Transport Near a High-speed Solar Wind Stream
Nicolas **Wijsen**, Evangelia Samara, Àngels Aran, David Lario, Jens Pomoell, Stefaan Poedts
ApJ **2021**
https://arxiv.org/pdf/2102.10950.pdf

21 Sep

Observations of the Quiet Sun During the Deepest Solar Minimum of the Past Century with Chandrayaan-2 XSM -- Elemental Abundances in the Quiescent Corona
Santosh V. **Vadawale**, Biswajit Mondal, N. P. S. Mithun, Aveek Sarkar, P. Janardhan, Bhuwan Joshi, Anil Bhardwaj, M. Shanmugam, Arpit R. Patel, Hitesh Kumar L. Adalja, Shiv Kumar Goyal, Tinkal Ladiya, Neeraj Kumar Tiwari, Nishant Singh, Sushil Kumar
ApJL **2021**
https://arxiv.org/pdf/2103.16643.pdf

27-28 Sep

Observations of the Quiet Sun During the Deepest Solar Minimum of the Past Century with Chandrayaan-2 XSM -- Sub-A Class Microflares Outside Active Regions
Santosh V. **Vadawale**, N. P. S. Mithun, Biswajit Mondal, Aveek Sarkar, P. Janardhan, Bhuwan Joshi, Anil Bhardwaj, M. Shanmugam, Arpit R. Patel, Hitesh Kumar L. Adalja, Shiv Kumar Goyal, Tinkal Ladiya, Neeraj Kumar Tiwari, Nishant Singh, Sushil Kumar
ApJL **2021**
https://arxiv.org/pdf/2103.16644.pdf

28 Sep

Tracking Movement of Long-lived Equatorial Coronal Holes from Analysis of Long-term McIntosh Archive Data
Jacob **Harris**1, Mausumi Dikpati2, Ian M. Hewins2, Sarah E. Gibson2, Scott W. McIntosh2, Subhamoy Chatterjee3, and Thomas A. Kuchar4
2022 ApJ 931 54
https://iopscience.iop.org/article/10.3847/1538-4357/ac67f2/pdf

30 Sep-1 Oct

Evolution of Elemental Abundances During B-Class Solar Flares: Soft X-ray Spectral Measurements with Chandrayaan-2 XSM
Biswajit **Mondal**, Aveek Sarkar, Santosh V. Vadawale, N. P. S. Mithun, P. Janardhan, Giulio Del Zanna, Helen E. Mason, Urmila Mitra-Kraev, S. Narendranath
ApJ **2021**
https://arxiv.org/pdf/2107.07825.pdf

10 Oct

The first light of the Solar Activity MOF Monitor Telescope (SAMM)
Roberto **Speziali**1*, Andrea Di Paola1, Mauro Centrone1, Maurizio Oliviero2, Domenico Bonaccini Calia3, Luciano Dal Sasso4, Marco Faccini, Vincenzo Mauriello4 and Luciano Terranegra2
J. Space Weather Space Clim. **2021**, 11, 22
https://doi.org/10.1051/swsc/2020078
https://www.swsc-journal.org/articles/swsc/pdf/2021/01/swsc200068.pdf

10-14 Oct

First Simultaneous In Situ Measurements of a Coronal Mass Ejection by Parker Solar Probe and STEREO-A
Reka M. **Winslow**1, Noé Lugaz1, Camilla Scolini1,2, and Antoinette B. Galvin1
2021 ApJ 916 94
https://arxiv.org/pdf/2106.04685.pdf
https://doi.org/10.3847/1538-4357/ac0821

13-14 Oct

The Plasma β in quiet Sun Regions: Multi-Instrument View
Jenny M. **Rodríguez-Gómez**, Christoph Kuckein, Sergio J. Gonzalez Manrique, Jonas Saqri, Astrid Veronig, Peter Gomöry, Tatiana Podladchikova
2024
https://arxiv.org/ftp/arxiv/papers/2402/2402.00204.pdf

Parker Solar Probe: Four Years of Discoveries at Solar Cycle Minimum **Review**
N. E. **Raouafi**, L. Matteini, J. Squire, S. T. Badman, M. Velli, +++
Space Science Reviews **2023** 157 pages, 65 figures
https://arxiv.org/pdf/2301.02727.pdf

A Magnetic Flux Rope Configuration Derived by Optimization of Two-Spacecraft In-situ Measurements
Qiang **Hu**, Wen He, and Yu Chen
Front. Phys. 10: 960315. **2022**
doi: 10.3389/fphy.2022.960315
https://www.frontiersin.org/articles/10.3389/fphy.2022.960315/pdf

17-19 Oct
The Plasma β in quiet Sun Regions: Multi-Instrument View
Jenny M. **Rodríguez-Gómez**, Christoph Kuckein, Sergio J. Gonzalez Manrique, Jonas Saqri, Astrid Veronig, Peter Gomöry, Tatiana Podladchikova
2024
https://arxiv.org/ftp/arxiv/papers/2402/2402.00204.pdf

19-23 Oct
Three-day Forecasting of Solar Wind Speed Using SDO/AIA Extreme-ultraviolet Images by a Deep-learning Model
Jihyeon **Son**1, Suk-Kyung Sung2, Yong-Jae Moon1,2, Harim Lee2, and Hyun-Jin Jeong2
2023 ApJS 267 45
https://iopscience.iop.org/article/10.3847/1538-4365/ace59a/pdf

22 Oct
A machine-learning-based model for the next 3-day Geomagnetic Index (Kp) Forecast
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