

## Refereed articles in 2021

- [1] V. Andretta, A. Bemporad, Y. De Leo, G. Jerse, F. Landini, M. Mierla, G. Naletto, M. Romoli, C. Sasso, A. Slemer, D. Spadaro, R. Susino, D. C. Talpeanu, D. Telloni, L. Teriaca, M. Uslenghi, E. Antonucci, F. Auchère, D. Berghmans, A. Berlicki, G. Capobianco, G. E. Capuano, C. Casini, M. Casti, P. Chioetto, V. Da Deppo, M. Fabi, S. Fineschi, F. Frassati, F. Frassetto, S. Giordano, C. Grimani, P. Heinzel, A. Liberatore, E. Magli, G. Massone, M. Messerotti, D. Moses, G. Nicolini, M. Pancrazzi, M. G. Pelizzo, P. Romano, U. Schühle, M. Stangalini, Th. Straus, C. A. Volpicelli, L. Zangrilli, P. Zuppella, L. Abbo, R. Aznar Cuadrado, R. Bruno, A. Ciaravella, R. D'Amicis, P. Lamy, A. Lanzafame, A. M. Malvezzi, P. Niccolosi, G. Nisticò, H. Peter, C. Plainaki, L. Poletto, F. Reale, S. K. Solanki, L. Strachan, G. Tondello, K. Tsinganos, M. Velli, R. Ventura, J. C. Vial, J. Woch, and G. Zimbardo. The first coronal mass ejection observed in both visible-light and UV H I Ly- $\alpha$  channels of the Metis coronagraph on board Solar Orbiter. *Astron. Astrophys.*, 656:L14, December 2021.
- [2] Deborah Baker, Teodora Mihailescu, Pascal Démoulin, Lucie M. Green, Lidia van Driel-Gesztelyi, Gherardo Valori, David H. Brooks, David M. Long, and Miho Janvier. Plasma Upflows Induced by Magnetic Reconnection Above an Eruptive Flux Rope. *Solar Phys.*, 296(6):103, June 2021.
- [3] D. Berghmans, F. Auchère, D. M. Long, E. Soubrié, M. Mierla, A. N. Zhukov, U. Schühle, P. Antolin, L. Harra, S. Parenti, O. Podladchikova, R. Aznar Cuadrado, É. Buchlin, L. Dolla, C. Verbeeck, S. Gissot, L. Teriaca, M. Haberreiter, A. C. Katsiyannis, L. Rodriguez, E. Kraaijkamp, P. J. Smith, K. Stegen, P. Rochus, J. P. Halain, L. Jacques, W. T. Thompson, and B. Inhester. Extreme-UV quiet Sun brightenings observed by the Solar Orbiter/EUI. *Astron. Astrophys.*, 656:L4, December 2021.
- [4] Guillaume Bernoux, Antoine Brunet, Éric Buchlin, Miho Janvier, and Angélica Sicard. An operational approach to forecast the Earth's radiation belts dynamics. *Journal of Space Weather and Space Climate*, 11:60, November 2021.
- [5] M. Castro, F. Baudin, O. Benomar, R. Samadi, T. Morel, C. Barban, J. D. do Nascimento, Y. Lebreton, P. Boumier, J. P. Marques, and J. S. da Costa. Modeling of two CoRoT solar analogues constrained by seismic and spectroscopic analysis. *Monthly Notices of the RAS*, 505(2):2151–2158, August 2021.
- [6] Yajie Chen, Damien Przybylski, Hardi Peter, Hui Tian, F. Auchère, and D. Berghmans. Transient small-scale brightenings in the quiet solar corona: A model for campfires observed with Solar Orbiter. *Astron. Astrophys.*, 656:L7, December 2021.
- [7] L. P. Chitta, S. K. Solanki, H. Peter, R. Aznar Cuadrado, L. Teriaca, U. Schühle, F. Auchère, D. Berghmans, E. Kraaijkamp, S. Gissot, and C. Verbeeck. Capturing transient plasma flows and jets in the solar corona. *Astron. Astrophys.*, 656:L13, December 2021.

- [8] A. Fludra, M. Caldwell, A. Giunta, T. Grundy, S. Guest, S. Leeks, S. Sidher, F. Auchère, M. Carlsson, D. Hassler, H. Peter, R. Aznar Cuadrado, É. Buchlin, S. Caminade, C. DeForest, T. Fredrik, M. Haberreiter, L. Harra, M. Janvier, T. Kucera, D. Müller, S. Parenti, W. Schmutz, U. Schühle, S. K. Solanki, L. Teriaca, W. T. Thompson, S. Tustain, D. Williams, P. R. Young, and L. P. Chitta. First observations from the SPICE EUV spectrometer on Solar Orbiter. *Astron. Astrophys.*, 656:A38, December 2021.
- [9] Manolis K. Georgoulis, D. Shaun Bloomfield, Michele Piana, Anna Maria Massone, Marco Soldati, Peter T. Gallagher, Etienne Pariat, Nicole Vilmer, Eric Buchlin, Frederic Baudin, Andre Csillaghy, Hanna Sathiapal, David R. Jackson, Pablo Alingery, Federico Benvenuto, Cristina Campi, Konstantinos Florios, Constantinos Gontikakis, Chloe Guennou, Jordan A. Guerra, Ioannis Kontogiannis, Vittorio Latorre, Sophie A. Murray, Sung-Hong Park, Samuel von Stachelski, Aleksandar Torbica, Dario Vischi, and Mark Worsfold. The flare likelihood and region eruption forecasting (FLARECAST) project: flare forecasting in the big data & machine learning era. *Journal of Space Weather and Space Climate*, 11:39, May 2021.
- [10] Soumitra Hazra, Victor Réville, Barbara Perri, Antoine Strugarek, Allan Sacha Brun, and Eric Buchlin. Modeling Solar Wind Variations over an 11 Year Cycle with Alfvén Wave Dissipation: A Parameter Study. *Astrophys. J.*, 910(2):90, April 2021.
- [11] Ryohko Ishikawa, Javier Trujillo Bueno, Tanausú del Pino Alemán, Takenori J. Okamoto, David E. McKenzie, Frédéric Auchère, Ryouhei Kano, Donguk Song, Masaki Yoshida, Laurel A. Rachmeler, Ken Kobayashi, Hirohisa Hara, Masahito Kubo, Noriyuki Narukage, Taro Sakao, Toshifumi Shimizu, Yoshinori Suematsu, Christian Bethge, Bart De Pontieu, Alberto Sainz Dalda, Genevieve D. Vigil, Amy Winebarger, Ernest Alsina Ballester, Luca Belluzzi, Jiří Štěpán, Andrés Asensio Ramos, Mats Carlsson, and Jorrit Leenaarts. Mapping solar magnetic fields from the photosphere to the base of the corona. *Science Advances*, 7(8):eabe8406, February 2021.
- [12] Miho Janvier, Pascal Démoulin, Jingnan Guo, Sergio Dasso, Florian Regnault, Sofia Topsi-Moutesidou, Christian Gutierrez, and Barbara Perri. The Two-step Forbush Decrease: A Tale of Two Substructures Modulating Galactic Cosmic Rays within Coronal Mass Ejections. *Astrophys. J.*, 922(2):216, December 2021.
- [13] Sudip Mandal, Hardi Peter, Lakshmi Pradeep Chitta, Sami K. Solanki, Regina Aznar Cuadrado, Luca Teriaca, Udo Schühle, David Berghmans, and Frédéric Auchère. Propagating brightenings in small loop-like structures in the quiet-Sun corona: Observations from Solar Orbiter/EUI. *Astron. Astrophys.*, 656:L16, December 2021.
- [14] Navdeep K. Panesar, Sanjiv K. Tiwari, David Berghmans, Mark C. M. Cheung, Daniel Müller, Frederic Auchere, and Andrei Zhukov. The Magnetic Origin of Solar Campfires. *Astrophys. J. Lett.*, 921(1):L20, November 2021.

- [15] Susanna Parenti, Iulia Chifu, Giulio Del Zanna, Justin Edmondson, Alessandra Giunta, Viggo H. Hansteen, Aleida Higginson, J. Martin Laming, Susan T. Lepri, Benjamin J. Lynch, Yeimy J. Rivera, Rudolf von Steiger, Thomas Wiegelmann, Robert F. Wimmer-Schweingruber, Natalia Zambrana Prado, and Gabriel Pelouze. Linking the Sun to the Heliosphere Using Composition Data and Modelling. *Space Sci. Rev.*, 217(8):78, December 2021.
- [16] C. Pinçon, T. Appourchaux, and G. Buldgen. Amplitude of solar gravity modes generated by penetrative plumes. *Astron. Astrophys.*, 650:A47, June 2021.
- [17] O. Podladchikova, L. Harra, K. Barczynski, C. H. Mandrini, F. Auchère, D. Berghmans, É. Buchlin, L. Dolla, M. Mierla, S. Parenti, and L. Rodriguez. Stereoscopic measurements of coronal Doppler velocities. *Astron. Astrophys.*, 655:A57, November 2021.
- [18] M. Cristina Rabello Soares, Frédéric Baudin, and Vanessa G. Teixeira. Effects of flares on solar high-degree helioseismic acoustic mode amplitudes. *Monthly Notices of the RAS*, 505(1):293–303, July 2021.
- [19] Mark P. Rast, Nazaret Bello González, Luis Bellot Rubio, Wenda Cao, Gianna Cauzzi, Edward Deluca, Bart de Pontieu, Lyndsay Fletcher, Sarah E. Gibson, Philip G. Judge, Yukio Katsukawa, Maria D. Kazachenko, Elena Khomenko, Enrico Landi, Valentín Martínez Pillet, Gordon J. D. Petrie, Jiong Qiu, Laurel A. Rachmeler, Matthias Rempel, Wolfgang Schmidt, Eamon Scullion, Xudong Sun, Brian T. Welsch, Vincenzo Andretta, Patrick Antolin, Thomas R. Ayres, K. S. Balasubramaniam, Istvan Ballai, Thomas E. Berger, Stephen J. Bradshaw, Ryan J. Campbell, Mats Carlsson, Roberto Casini, Rebecca Centeno, Steven R. Cranmer, Serena Criscuoli, Craig Deforest, Yuanyong Deng, Robertus Erdélyi, Viktor Fedun, Catherine E. Fischer, Sergio J. González Manrique, Michael Hahn, Louise Harra, Vasco M. J. Henriques, Neal E. Hurlbert, Sarah Jaeggli, Shahin Jafarzadeh, Rekha Jain, Stuart M. Jefferies, Peter H. Keys, Adam F. Kowalski, Christoph Kuckein, Jeffrey R. Kuhn, David Kuridze, Jiajia Liu, Wei Liu, Dana Longcope, Mihalis Mathioudakis, R. T. James McAteer, Scott W. McIntosh, David E. McKenzie, Mari Paz Miralles, Richard J. Morton, Karin Muglach, Chris J. Nelson, Navdeep K. Panesar, Susanna Parenti, Clare E. Parnell, Bala Poduval, Kevin P. Reardon, Jeffrey W. Reep, Thomas A. Schad, Donald Schmit, Rahul Sharma, Hector Socas-Navarro, Abhishek K. Srivastava, Alphonse C. Sterling, Yoshinori Sue-matsu, Lucas A. Tarr, Sanjiv Tiwari, Alexandra Tritschler, Gary Verth, Angelos Vourlidas, Haimin Wang, Yi-Ming Wang, NSO and DKIST Project, DKIST Instrument Scientists, DKIST Science Working Group, and DKIST Critical Science Plan Community. Critical Science Plan for the Daniel K. Inouye Solar Telescope (DKIST). *Solar Phys.*, 296(4):70, April 2021.
- [20] M. Romoli, E. Antonucci, V. Andretta, G. E. Capuano, V. Da Deppo, Y. De Leo, C. Downs, S. Fineschi, P. Heinzel, F. Landini, A. Liberatore, G. Naletto, G. Nicolini, M. Pancrazzi, C. Sasso, D. Spadaro, R. Susino, D. Telloni, L. Teriaca, M. Usenglhi, Y. M. Wang, A. Beimpordad, G. Capobianco, M. Casti, M. Fabi, F. Frassati, F. Frassetto,

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- [22] Nicholeen M. Viall, Ineke De Moortel, Cooper Downs, James A. Klimchuk, Susanna Parenti, and Fabio Reale. The Heating of the Solar Corona. In Nour E. Raouafi and Angelos Vourlidas, editors, *Solar Physics and Solar Wind*, volume 1, page 35, May 2021.
- [23] Jian-Chao Xue, Jean-Claude Vial, Yang Su, Hui Li, Zhi Xu, Ying-Na Su, Tuan-Hui Zhou, and Zhen-Tong Li. High-resolution observations of prominence plume formation with the new vacuum solar telescope. *Research in Astronomy and Astrophysics*, 21(9):222, November 2021.
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