

## Refereed articles in 2022

- [1] N. Alipour, H. Safari, C. Verbeeck, D. Berghmans, F. Auchère, L. P. Chitta, P. Antolin, K. Barczynski, É. Buchlin, R. Aznar Cuadrado, L. Dolla, M. K. Georgoulis, S. Gissot, L. Harra, A. C. Katsiyannis, D. M. Long, S. Mandal, S. Parenti, O. Podladchikova, E. Petrova, É. Soubrié, U. Schühle, C. Schwanitz, L. Teriaca, M. J. West, and A. N. Zhukov. Automatic detection of small-scale EUV brightenings observed by the Solar Orbiter/EUI. *Astron. Astrophys.*, 663:A128, July 2022.
- [2] D. Baker, L. M. Green, D. H. Brooks, P. Démoulin, L. van Driel-Gesztelyi, T. Mihailescu, A. S. H. To, D. M. Long, S. L. Yardley, M. Janvier, and G. Valori. Evolution of Plasma Composition in an Eruptive Flux Rope. *Astrophys. J.*, 924(1):17, January 2022.
- [3] Krzysztof Barczynski, Karen A. Meyer, Louise K. Harra, Duncan H. Mackay, Frédéric Auchère, and David Berghmans. A Statistical Comparison of EUV Brightenings Observed by SO/EUI with Simulated Brightenings in Nonpotential Simulations. *Solar Phys.*, 297(10):141, October 2022.
- [4] Guillaume Bernoux, Antoine Brunet, Éric Buchlin, Miho Janvier, and Angélica Sicard. Forecasting the Geomagnetic Activity Several Days in Advance Using Neural Networks Driven by Solar EUV Imaging. *Journal of Geophysical Research (Space Physics)*, 127(10):e2022JA030868, October 2022.
- [5] David H. Brooks, Miho Janvier, Deborah Baker, Harry P. Warren, Frédéric Auchère, Mats Carlsson, Andrzej Fludra, Don Hassler, Hardi Peter, Daniel Müller, David Williams, Regina Aznar Cuadrado, Krzysztof Barczynski, Eric Buchlin, Martin Caldwell, Terje Fredvik, Alessandra Giunta, Tim Grundy, Steve Guest, Margit Haberreiter, Louise Harra, Sarah Leeks, Susanna Parenti, Gabriel Pelouze, Joseph Plowman, Werner Schmutz, Udo Schuehle, Sunil Sidher, Luca Teriaca, William T. Thompson, and Peter R. Young. Plasma Composition Measurements in an Active Region from Solar Orbiter/SPICE and Hinode/EIS. *Astrophys. J.*, 940(1):66, November 2022.
- [6] L. P. Chitta, H. Peter, S. Parenti, D. Berghmans, F. Auchère, S. K. Solanki, R. Aznar Cuadrado, U. Schühle, L. Teriaca, S. Mandal, K. Barczynski, É. Buchlin, L. Harra, E. Kraaikamp, D. M. Long, L. Rodriguez, C. Schwanitz, P. J. Smith, C. Verbeeck, A. N. Zhukov, W. Liu, and M. C. M. Cheung. Solar coronal heating from small-scale magnetic braids. *Astron. Astrophys.*, 667:A166, November 2022.
- [7] Werner Curdt, Klaus Wilhelm, Udo Schühle, Jean-Claude Vial, Philippe Lemaire, and Karine Bocchialini. Updates to the SUMER Spectral Atlas. *Solar Phys.*, 297(11):145, November 2022.
- [8] M. Gordino, F. Auchère, J. C. Vial, K. Bocchialini, D. M. Hassler, T. Bando, R. Ishikawa, R. Kano, K. Kobayashi, N. Narukage, J. Trujillo Bueno, and A. Winebarger. Empirical relations between the intensities of Lyman lines of H and He<sup>+</sup>. *Astron. Astrophys.*, 657:A86, January 2022.

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- [10] Petr Heinzel, Miroslav Bárta, Stanislav Gunár, Nicolas Labrosse, and Jean-Claude Vial. Prominence observations with ALMA. *Frontiers in Astronomy and Space Sciences*, 9:983707, October 2022.
- [11] F. Kahil, J. Hirzberger, S. K. Solanki, L. P. Chitta, H. Peter, F. Auchère, J. Sinjan, D. Orozco Suárez, K. Albert, N. Albelo Jorge, T. Appourchaux, A. Alvarez-Herrero, J. Blanco Rodríguez, A. Gandorfer, D. Germerott, L. Guerrero, P. Gutiérrez Márquez, M. Kolleck, J. C. del Toro Iniesta, R. Volkmer, J. Woch, B. Fiethe, J. M. Gómez Cama, I. Pérez-Grande, E. Sanchis Kilders, M. Balaguer Jiménez, L. R. Bellot Rubio, D. Calchetti, M. Carmona, W. Deutsch, G. Fernández-Rico, A. Fernández-Medina, P. García Parejo, J. L. Gasent-Blesa, L. Gizon, B. Grauf, K. Heerlein, A. Lagg, T. Lange, A. López Jiménez, T. Maue, R. Meller, H. Michalik, A. Moreno Vacas, R. Müller, E. Nakai, W. Schmidt, J. Schou, U. Schühle, J. Staub, H. Strecker, I. Torralbo, G. Valori, R. Aznar Cuadrado, L. Teriaca, D. Berghmans, C. Verbeeck, E. Kraaikamp, and S. Gissot. The magnetic drivers of campfires seen by the Polarimetric and Helioseismic Imager (PHI) on Solar Orbiter. *Astron. Astrophys.*, 660:A143, April 2022.
- [12] M. Luna, J. R. Mérou Mestre, and F. Auchère. Automatic detection technique for solar filament oscillations in GONG data. *Astron. Astrophys.*, 666:A195, October 2022.
- [13] Sudip Mandal, Lakshmi Pradeep Chitta, Patrick Antolin, Hardi Peter, Sami K. Solanki, Frédéric Auchère, David Berghmans, Andrei N. Zhukov, Luca Teriaca, Regina A. Cuadrado, Udo Schühle, Susanna Parenti, Éric Buchlin, Louise Harra, Cis Verbeeck, Emil Kraaikamp, David M. Long, Luciano Rodriguez, Gabriel Pelouze, Conrad Schwanitz, Krzysztof Barczynski, and Phil J. Smith. What drives decayless kink oscillations in active-region coronal loops on the Sun? *Astron. Astrophys.*, 666:L2, October 2022.
- [14] Sudip Mandal, Lakshmi Pradeep Chitta, Hardi Peter, Sami K. Solanki, Regina Aznar Cuadrado, Luca Teriaca, Udo Schühle, David Berghmans, and Frédéric Auchère. A highly dynamic small-scale jet in a polar coronal hole. *Astron. Astrophys.*, 664:A28, August 2022.
- [15] M. Mierla, A. N. Zhukov, D. Berghmans, S. Parenti, F. Auchère, P. Heinzel, D. B. Seaton, E. Palmerio, S. Jejčič, J. Janssens, E. Kraaikamp, B. Nicula, D. M. Long, L. A. Hayes, I. C. Jebaraj, D. C. Talpeanu, E. D’Huys, L. Dolla,

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- [18] H. Peter, E. Alsina Ballester, V. Andretta, F. Auchère, L. Belluzzi, A. Bemporad, D. Berghmans, E. Buchlin, A. Calcines, L. P. Chitta, K. Dalmasse, T. del Pino Alemán, A. Feller, C. Froment, R. Harrison, M. Janvier, S. Matthews, S. Parenti, D. Przybylski, S. K. Solanki, J. Štěpán, L. Teriaca, and J. Trujillo Bueno. Magnetic imaging of the outer solar atmosphere (MImOSA). *Experimental Astronomy*, 54(2-3):185–225, December 2022.
- [19] L. A. Rachmeler, J. Trujillo Bueno, D. E. McKenzie, R. Ishikawa, F. Auchère, K. Kobayashi, R. Kano, T. J. Okamoto, C. W. Bethge, D. Song, E. Alsina Ballester, L. Belluzzi, T. del Pino Alemán, A. Asensio Ramos, M. Yoshida, T. Shimizu, A. Winebarger, A. R. Kobelski, G. D. Vigil, B. De Pontieu, N. Narukage, M. Kubo, T. Sakao, H. Hara, Y. Suematsu, J. Štěpán, M. Carlsson, and J. Leenaarts. Quiet Sun Center to Limb Variation of the Linear Polarization Observed by CLASP2 Across the Mg II h and k Lines. *Astrophys. J.*, 936(1):67, September 2022.
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