

Refereed articles in 2016

- [1] F. Anders, C. Chiappini, T. S. Rodrigues, A. Miglio, J. Montalbán, B. Mosser, L. Girardi, M. Valentini, A. Noels, T. Morel, J. A. Johnson, M. Schultheis, F. Baudin, R. de Assis Peralta, S. Hekker, N. Themelkl, T. Kallinger, R. A. García, S. Mathur, A. Baglin, B. X. Santiago, M. Martig, I. Minchev, M. Steinmetz, L. N. da Costa, M. A. G. Maia, C. Allende Prieto, K. Cunha, T. C. Beers, C. Epstein, A. E. García Pérez, D. A. García-Hernández, P. Harding, J. Holtzman, S. R. Majewski, S. Mészáros, D. Nidever, K. Pan, M. Pinsonneault, R. P. Schiavon, D. P. Schneider, M. D. Shetrone, K. Stassun, O. Zamora, and G. Zasowski. Galactic archaeology with asteroseismology and spectroscopy: Red giants observed by CoRoT and APOGEE. *Astron. Astrophys.*, 597:A30, December 2016.
- [2] T. Appourchaux, H. M. Antia, O. Benomar, T. L. Campante, G. R. Davies, R. Handberg, R. Howe, C. Régulo, K. Belkacem, G. Houdek, R. A. García, and W. J. Chaplin. Oscillation mode linewidths and heights of 23 main-sequence stars observed by Kepler (Corrigendum). *Astron. Astrophys.*, 595:C2, November 2016.
- [3] F. Auchère, C. Froment, K. Bocchialini, E. Buchlin, and J. Solomon. On the Fourier and Wavelet Analysis of Coronal Time Series. *Astrophys. J.*, 825:110, July 2016.
- [4] F. Auchère, C. Froment, K. Bocchialini, E. Buchlin, and J. Solomon. Thermal Non-equilibrium Revealed by Periodic Pulses of Random Amplitudes in Solar Coronal Loops. *Astrophys. J.*, 827:152, August 2016.
- [5] T. L. Campante, M. Schofield, J. S. Kuszlewicz, L. Bouma, W. J. Chaplin, D. Huber, J. Christensen-Dalsgaard, H. Kjeldsen, D. Bossini, T. S. H. North, T. Appourchaux, D. W. Latham, J. Pepper, G. R. Ricker, K. G. Stassun, R. Vanderspek, and J. N. Winn. The Asteroseismic Potential of TESS: Exoplanet-host Stars. *Astrophys. J.*, 830:138, October 2016.
- [6] S. Dacie, P. Démoulin, L. van Driel-Gesztelyi, D. M. Long, D. Baker, M. Janvier, S. L. Yardley, and D. Pérez-Suárez. Evolution of the magnetic field distribution of active regions. *Astron. Astrophys.*, 596:A69, December 2016.
- [7] C. Damiani, J.-C. Meunier, C. Moutou, M. Deleuil, N. Ysard, F. Baudin, and H. Deeg. Stellar classification of CoRoT targets. *Astron. Astrophys.*, 595:A95, November 2016.
- [8] S. Deheuvels, I. Brandão, V. Silva Aguirre, J. Ballot, E. Michel, M. S. Cunha, Y. Lebreton, and T. Appourchaux. Measuring the extent of convective cores in low-mass stars using Kepler data: toward a calibration of core overshooting. *Astron. Astrophys.*, 589:A93, May 2016.
- [9] P. Démoulin, M. Janvier, and S. Dasso. Magnetic Flux and Helicity of Magnetic Clouds. *Solar Phys.*, 291:531–557, February 2016.
- [10] P. Démoulin, M. Janvier, J. J. Masías-Meza, and S. Dasso. Quantitative model for the generic 3D shape of ICMEs at 1 AU. *Astron. Astrophys.*, 595:A19, October 2016.

- [11] J. Dudík, V. Polito, M. Janvier, S. M. Mulay, M. Karlický, G. Aulanier, G. Del Zanna, E. Dzifčáková, H. E. Mason, and B. Schmieder. Slipping Magnetic Reconnection, Chromospheric Evaporation, Implosion, and Precursors in the 2014 September 10 X1.6-Class Solar Flare. *Astrophys. J.*, 823:41, May 2016.
- [12] P. Gaulme, J. F. Rowe, T. R. Bedding, O. Benomar, E. Corsaro, G. R. Davies, S. J. Hale, R. Howe, R. A. Garcia, D. Huber, A. Jiménez, S. Mathur, B. Mosser, T. Appourchaux, P. Boumier, J. Jackiewicz, J. Leibacher, F.-X. Schmieder, H. B. Hammel, J. J. Lissauer, M. S. Marley, A. A. Simon, W. J. Chaplin, Y. Elsworth, J. A. Guzik, N. Murphy, and V. Silva Aguirre. A Distant Mirror: Solar Oscillations Observed on Neptune by the Kepler K2 Mission. *Astrophys. J. Lett.*, 833:L13, December 2016.
- [13] G. Giono, R. Ishikawa, N. Narukage, R. Kano, Y. Katsukawa, M. Kubo, S. Ishikawa, T. Bando, H. Hara, Y. Suematsu, A. Winebarger, K. Kobayashi, F. Auchère, and J. Trujillo Bueno. Polarization Calibration of the Chromospheric Lyman-Alpha SpectroPolarimeter for a 0.1 % Polarization Sensitivity in the VUV Range. Part I: Pre-flight Calibration. *Solar Phys.*, 291:3831–3867, December 2016.
- [14] C. Gontikakis and J.-C. Vial. Evidence of scattering effects influenced by plasma flows in C VI 1548 Å, 1550 Å spectral lines emitted from the Sun. *Astron. Astrophys.*, 590:A86, May 2016.
- [15] J. A. Guzik, G. Houdek, W. J. Chaplin, B. Smalley, D. W. Kurtz, R. L. Gilliland, F. Mullally, J. F. Rowe, S. T. Bryson, M. D. Still, V. Antoci, T. Appourchaux, S. Basu, T. R. Bedding, O. Benomar, R. A. Garcia, D. Huber, H. Kjeldsen, D. W. Latham, T. S. Metcalfe, P. I. Pápics, T. R. White, C. Aerts, J. Ballot, T. S. Boyajian, M. Briquet, H. Bruntt, L. A. Buchhave, T. L. Campante, G. Catanzaro, J. Christensen-Dalsgaard, G. R. Davies, G. Doğan, D. Dragomir, A. P. Doyle, Y. Elsworth, A. Frasca, P. Gaulme, M. Gruberbauer, R. Handberg, S. Hekker, C. Karoff, H. Lehmann, P. Mathias, S. Mathur, A. Miglio, J. Molenda-Żakowicz, B. Mosser, S. J. Murphy, C. Régulo, V. Ripepi, D. Salabert, S. G. Sousa, D. Stello, and K. Uytterhoeven. Detection of Solar-like Oscillations, Observational Constraints, and Stellar Models for θ Cyg, the Brightest Star Observed By the Kepler Mission. *Astrophys. J.*, 831:17, November 2016.
- [16] L. K. Harra, C. J. Schrijver, M. Janvier, S. Toriumi, H. Hudson, S. Matthews, M. M. Woods, H. Hara, M. Guedel, A. Kowalski, R. Osten, K. Kusano, and T. Luetinger. The Characteristics of Solar X-Class Flares and CMEs: A Paradigm for Stellar Superflares and Eruptions? *Solar Phys.*, 291:1761–1782, August 2016.
- [17] I. A. Ivanov, J. Dubau, and K. T. Kim. Nondipole effects in strong-field ionization. *Physical Review A: General Physics*, 94(3):033405, September 2016.
- [18] M. Janvier, A. Savcheva, E. Pariat, S. Tashev, S. Millholland, V. Bommier, P. McCauley, S. McKillop, and F. Dougan. Evolution of flare ribbons, electric currents, and quasi-separatrix layers during an X-class flare. *Astron. Astrophys.*, 591:A141, July 2016.

- [19] V. Joulin, E. Buchlin, J. Solomon, and C. Guennou. Energetic characterisation and statistics of solar coronal brightenings. *Astron. Astrophys.*, 591:A148, July 2016.
- [20] M. Kubo, Y. Katsukawa, Y. Suematsu, R. Kano, T. Bando, N. Narukage, R. Ishikawa, H. Hara, G. Giono, S. Tsuneta, S. Ishikawa, T. Shimizu, T. Sakao, A. Winebarger, K. Kobayashi, J. Cirtain, P. Champey, F. Auchère, J. Trujillo Bueno, A. Asensio Ramos, J. Štěpán, L. Belluzzi, R. Manso Sainz, B. De Pontieu, K. Ichimoto, M. Carlsson, R. Casini, and M. Goto. Discovery of Ubiquitous Fast-Propagating Intensity Disturbances by the Chromospheric Lyman Alpha Spectropolarimeter (CLASP). *Astrophys. J.*, 832:141, December 2016.
- [21] B. Lavraud, Y. Liu, K. Segura, J. He, G. Qin, M. Temmer, J.-C. Vial, M. Xiong, J. A. Davies, A. P. Rouillard, R. Pinto, F. Auchère, R. A. Harrison, C. Eyles, W. Gan, P. Lamy, L. Xia, J. P. Eastwood, L. Kong, J. Wang, R. F. Wimmer-Schweingruber, S. Zhang, Q. Zong, J. Soucek, J. An, L. Prech, A. Zhang, P. Rochus, V. Bothmer, M. Janvier, M. Maksimovic, C. P. Escoubet, E. K. J. Kilpua, J. Tappin, R. Vainio, S. Poedts, M. W. Dunlop, N. Savani, N. Gopalswamy, S. D. Bale, G. Li, T. Howard, C. DeForest, D. Webb, N. Lugaz, S. A. Fuselier, K. Dalmasse, J. Tallineau, D. Vranken, and J. G. Fernández. A small mission concept to the Sun-Earth Lagrangian L5 point for innovative solar, heliospheric and space weather science. *Journal of Atmospheric and Solar-Terrestrial Physics*, 146:171–185, August 2016.
- [22] J. J. Masías-Meza, S. Dasso, P. Démoulin, L. Rodriguez, and M. Janvier. Superposed epoch study of ICME sub-structures near Earth and their effects on Galactic cosmic rays. *Astron. Astrophys.*, 592:A118, August 2016.
- [23] E. R. Priest, D. W. Longcope, and M. Janvier. Evolution of Magnetic Helicity During Eruptive Flares and Coronal Mass Ejections. *Solar Phys.*, 291:2017–2036, August 2016.
- [24] L. Rodriguez, J. J. Masías-Meza, S. Dasso, P. Démoulin, A. N. Zhukov, A. M. Gulisano, M. Mierla, E. Kilpua, M. West, D. Lacatus, A. Paraschiv, and M. Janvier. Typical Profiles and Distributions of Plasma and Magnetic Field Parameters in Magnetic Clouds at 1 AU. *Solar Phys.*, 291:2145–2163, August 2016.
- [25] J.-C. Vial and M. Chane-Yook. Neutral Hydrogen and Its Emission Lines in the Solar Corona. *Solar Phys.*, 291:3549–3566, December 2016.
- [26] J.-C. Vial, G. Pelouze, P. Heinzel, L. Kleint, and U. Anzer. Observed IRIS Profiles of the h and k Doublet of Mg ii and Comparison with Profiles from Quiescent Prominence NLTE Models. *Solar Phys.*, 291:67–87, January 2016.