

Bibliography from ADS file: *sainz-dalda.bib*
 September 14, 2022

- Nóbrega Siverio, D., Guglielmino, S. L., & Sainz Dalda, A., “Solar surges related to UV bursts: Characterization through k-means, inversions, and density diagnostics”, 2022cosp...44.2530N [ADS](#)
- Gosic, M., De Pontieu, B., Bellot Rubio, L. R., Sainz Dalda, A., & Esteban Pozuelo, S., “Emergence of internetwork magnetic fields into the chromosphere and transition region”, 2022cosp...44.2511G [ADS](#)
- Woods, M. M., Sainz Dalda, A., & De Pontieu, B., “Unsupervised Machine Learning for the Identification of Preflare Spectroscopic Signatures”, 2021ApJ...922..137W [ADS](#)
- Nóbrega-Siverio, D., Guglielmino, S. L., & Sainz Dalda, A., “Solar surges related to UV bursts. Characterization through k-means, inversions, and density diagnostics”, 2021A&A...655A..28N [ADS](#)
- Gošić, M., De Pontieu, B., Bellot Rubio, L. R., Sainz Dalda, A., & Pozuelo, S. E., “Emergence of Internetwork Magnetic Fields through the Solar Atmosphere”, 2021ApJ...911..41G [ADS](#)
- Sadykov, V. M., Kitiashvili, I. N., Sainz Dalda, A., et al., “Compression of Solar Spectroscopic Observations: a Case Study of Mg II k Spectral Line Profiles Observed by NASA’s IRIS Satellite”, 2021arXiv210307373S [ADS](#)
- Chintzoglou, G., De Pontieu, B., Martínez-Sykora, J., et al., “ALMA and IRIS Observations of the Solar Chromosphere. II. Structure and Dynamics of Chromospheric Plages”, 2021ApJ...906..83C [ADS](#)
- Chintzoglou, G., De Pontieu, B., Martínez-Sykora, J., et al., “ALMA and IRIS Observations of the Solar Chromosphere. I. An On-disk Type II Spicule”, 2021ApJ...906..82C [ADS](#)
- Sainz Dalda, A., Gosic, M., & Martínez-Sykora, J., “Expected spectropolarimetric observables in the lower solar atmosphere from 3D radiative MHD models”, 2020AGUFMSH0010019S [ADS](#)
- Chintzoglou, G., De Pontieu, B., Martínez-Sykora, J., et al., “ALMA and IRIS Observations Highlighting the Dynamics and Structure of Chromospheric Plage”, 2020AGUFMSH0010009C [ADS](#)
- Gosic, M., De Pontieu, B., Bellot Rubio, L., & Sainz Dalda, A., “Chromospheric response to emergence of internetwork magnetic fields”, 2020AGUFMSH0010006G [ADS](#)
- Rouppe van der Voort, L. H. M., De Pontieu, B., Carlsson, M., et al., “High-resolution observations of the solar photosphere, chromosphere, and transition region. A database of coordinated IRIS and SST observations”, 2020A&A...641A.146R [ADS](#)
- Woods, M., De Pontieu, B., & Sainz Dalda, A., “Investigating Pre-flare Signatures with K-means Clustering”, 2019AGUFMSH31E3348W [ADS](#)
- Cheung, M. C. M., Rempel, M., Chintzoglou, G., et al., “A comprehensive three-dimensional radiative magnetohydrodynamic simulation of a solar flare”, 2019NatAs...3..160C [ADS](#)
- Cheung, M., Rempel, M. D., Chintzoglou, G., et al., “Radiative MHD Simulation of a Solar Flare”, 2019AA...23431005C [ADS](#)
- Sainz Dalda, A., de la Cruz Rodríguez, J., De Pontieu, B., & Gošić, M., “Recovering Thermodynamics from Spectral Profiles observed by IRIS: A Machine and Deep Learning Approach”, 2019ApJ...875L..18S [ADS](#)
- Sainz Dalda, A., “A Statistical Comparison between Photospheric Vector Magnetograms Obtained by SDO/HMI and Hinode/SP”, 2017ApJ...851..111S [ADS](#)
- Rempel, M. D., Cheung, M., Chintzoglou, G., et al., “Realistic radiative MHD simulation of a solar flare”, 2017SPD....4840001R [ADS](#)
- Cheung, M., Rempel, M. D., Martínez-Sykora, J., et al., “Physics & Diagnostics of the Drivers of Solar Eruptions”, 2016SPD....47.0607C [ADS](#)
- Judge, P. G., Kleint, L., & Sainz Dalda, A., “On Helium 1083 nm Line Polarization during the Impulsive Phase of an X1 Flare”, 2015ApJ...814..100J [ADS](#)
- Rubio da Costa, F., Kleint, L., Sainz Dalda, A., Petrosian, V., & Liu, W., “A self-consistent combined radiative transfer hydrodynamic and particle acceleration model for the X1.0 class flare on March 29, 2014”, 2015AGUFMSH31B2419R [ADS](#)
- Sun, X., Hoeksema, J. T., Liu, Y., et al., “SDO/HMI Vector Magnetic Field Observations of the Solar Polar Region”, 2015AGUFMSH23A2429S [ADS](#)
- Kleint, L., Battaglia, M., Reardon, K., et al., “The Fast Filament Eruption Leading to the X-flare on 2014 March 29”, 2015ApJ...806..9K [ADS](#)
- Rubio da Costa, F., Kleint, L., Petrosian, V., Sainz Dalda, A., & Liu, W., “Solar Flare Chromospheric Line Emission: Comparison Between IBIS High-resolution Observations and Radiative Hydrodynamic Simulations”, 2015ApJ...804..56R [ADS](#)
- Judge, P. G., Kleint, L., Donea, A., Sainz Dalda, A., & Fletcher, L., “On the Origin of a Sunquake during the 2014 March 29 X1 Flare”, 2014ApJ...796..85J [ADS](#)
- Sainz Dalda, A. & Cheung, C. M. M., “Study of a sunspot umbra using spatially deconvolved Hinode spectropolarometric data”, 2014AGUFMSH41C4160S [ADS](#)
- Kleint, L., Battaglia, M., Krucker, S., Reardon, K., & Sainz Dalda, A., “High-resolution Observations of the X-flare on 2014-03-29”, 2014AGUFMSH31C..06K [ADS](#)
- Rubio da Costa, F., Kleint, L., Liu, W., Sainz Dalda, A., & Petrosian, V., “Comparison between IBIS Observations and Radiative Transfer Hydrodynamic Simulations of a Solar Flare”, 2014AGUFMSH13B4104R [ADS](#)
- Donea, A. C., Judge, P., Kleint, L., & Sainz-Dalda, A., “A particular seismic event generated during the solar flare 2014 March 29”, 2014shin.confE..49D [ADS](#)
- Sainz Dalda, A. & Kleint, L., “Relationship between unusual features in umbrae and flares”, 2014AA...22412314S [ADS](#)
- Kleint, L. & Sainz Dalda, A., “Unusual Filaments inside the Umbra”, 2013ApJ...770..74K [ADS](#)
- Sainz Dalda, A., “Differences between the vector magnetic field provided by the SDO/HMI and Hinode-SOT/SP databases.”, 2013enss.confE.115S [ADS](#)
- López Ariste, A. & Sainz Dalda, A., “Towards Measuring the Magnetic Energy Spectrum at Sub-Resolution Scales”, 2012ASPC..463..243L [ADS](#)
- Sun, X., Hoeksema, J. T., Liu, Y., et al., “The Dynamic Polar Magnetic Field Before Its Polarity Reversal”, 2012AGUFMSH41D2130S [ADS](#)
- Sainz Dalda, A. & Bellot Rubio, L. R., “Bipolar Magnetic Structures in Sunspot Penumbrae”, 2012ASPC..454..221S [ADS](#)
- López Ariste, A. & Sainz Dalda, A., “Scales of the magnetic fields in the quiet Sun”, 2012A&A...540A..66L [ADS](#)
- Sainz Dalda, A., Martínez-Sykora, J., Bellot Rubio, L., & Title, A., “Observation, inversion and numerical simulation of single-lobed Stokes V profiles in the quiet sun.”, 2012decs.confE..89S [ADS](#)
- Kleint, L. & Sainz Dalda, A., “Spectropolarimetry of the photosphere and the chromosphere with IBIS”, 2012decs.confE..4K [ADS](#)
- Sainz Dalda, A., Martínez-Sykora, J., Bellot Rubio, L., & Title, A., “Study of Single-lobed Circular Polarization Profiles in the Quiet Sun”, 2012ApJ...748..38S [ADS](#)
- Sainz Dalda, A., Vargas Domínguez, S., & Tarbell, T. D., “Magnetic Topology of a Naked Sunspot: Is It Really Naked?”, 2012ApJ...746L..13S [ADS](#)
- Sainz Dalda, A., López Ariste, A., Gelly, B., et al., “Spectropolarimetric Comparison Between SDO/HMI and Hinode-SOT/SP Through THEMIS/MTR”, 2011AGUFMSH31A1986S [ADS](#)
- Sainz Dalda, A., Tarbell, T., Title, A., Vargas Dominguez, S., & Bellot Rubio, L. R., “Spectropolarimetric Study of Sea-serpent Penumbral Filaments and a Naked Sunspot”, 2011SPD....42.0303S [ADS](#)
- Sainz Dalda, A. & Bellosi Rubio, L., “Temporal Evolution of the Sea-Serpent Penumbral Filaments”, 2010AGUFMSH11B1644S [ADS](#)
- Kitiashvili, I. N., Bellot Rubio, L. R., Kosovichev, A. G., et al., “Explanation of the Sea-serpent Magnetic Structure of Sunspot Penumbrae”, 2010ApJ...716L.181K [ADS](#)
- Wenzel, R., Berdyugina, S. V., Fluri, D. M., Arnaud, J., & Sainz Dalda, A., “Sunspot Umbra Atmosphere from Full Stokes Inversion”, 2010ASPC..428..117W [ADS](#)
- Kitiashvili, I., Bellot Rubio, L. R., Kosovichev, A. G., et al., “Sea-Serpent Magnetic Structure of Sunspot Penumbrae: Observations and MHD Simulations”, 2010AA...21631706K [ADS](#)
- Sainz Dalda, A.: 2009, “Decaimiento de flujo magnético en el Sol: Manchas, MMFs y ERsDecaimiento de flujo magnético en el Sol: Manchas, MMFs y ERsMagnetic Flux Decay in the Sun: Spots, MMFs [moving magnetic features] and ERs;”, Ph.D. thesis, University of La Laguna, Spain 2009PhDT.....573S [ADS](#)
- Wenzel, R., Berdyugina, V. S., Fluri, D. M., Arnaud, J., & Sainz Dalda, A., “Sunspot Model Atmosphere from Inversion of Stokes Profiles”, 2008ESPM...12.2.24W [ADS](#)
- Leblanc, F., Fulle, M., López Ariste, A., et al., “Comet McNaught C/2006 P1: observation of the sodium emission by the solar telescope THEMIS”, 2008A&A...482..293L [ADS](#)
- Sainz Dalda, A. & Bellot Rubio, L. R., “Detection of sea-serpent field lines in sunspot penumbrae”, 2008AA...481L..21S [ADS](#)
- Sainz Dalda, A. & López Ariste, A., “Chromospheric reversals in the emergence of an ephemeral region”, 2007AA...469..721S [ADS](#)
- Sainz Dalda, A. & López Ariste, A., “Using reduction and inversion tools for THEMIS-MTR data: chromospheric reversals of a moving magnetic feature and an ephemeral region .”, 2007MmSAI..78..154S [ADS](#)
- López Ariste, A., Aulanier, G., Schmieder, B., & Sainz Dalda, A., “First observation of bald patches in a filament channel and at a barb endpoint”, 2006AA...456..725L [ADS](#)
- Sainz Dalda, A. & Martínez Pillet, V., “Moving Magnetic Features as Prolongation of Penumbral Filaments”, 2005ApJ...632.1176S [ADS](#)
- Martínez Pillet, V., Sainz Dalda, A., & van Driel-Gesztelyi, L., “Flux Cancellation in a Decaying Active Region”, 2004cosp...35.1133M [ADS](#)