

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

- Cairós, L. M., González-Pérez, J. N., Weilbacher, P. M., & Manso Sainz, R., “*Warm ionized gas in the blue compact galaxy Haro 14 viewed by MUSE. The diverse ionization mechanisms acting in low-mass starbursts*”, 2022A&A...664A..144C [ADS](#)
- Folsom, C. P., Ignace, R., Erba, C., et al., “*Ultraviolet Spectropolarimetry: Investigating stellar magnetic field diagnostics*”, 2022arXiv220701865F [ADS](#)
- Pastor Yabar, A., Asensio Ramos, A., Manso Sainz, R., & Collados, M., “*Polarimetric characterization of segmented mirrors*”, 2022ApOpt..61.4908P [ADS](#)
- Cairós, L. M., González-Pérez, J. N., Weilbacher, P. M., & Manso Sainz, R., “*MUSE observations of the blue compact dwarf galaxy Haro 14. Data analysis and first results on morphology and stellar populations*”, 2021A&A...654A..142C [ADS](#)
- Zeuner, F., Manso Sainz, R., Feller, A., et al., “*Solar Disk Center Shows Scattering Polarization in the Sr I 4607 Å Line*”, 2020ApJ...893L..44Z [ADS](#)
- del Pino Alemán, T., Trujillo Bueno, J., Casini, R., & Manso Sainz, R., “*The Magnetic Sensitivity of the Resonance and Subordinate Lines of Mg II in the Solar Chromosphere*”, 2020ApJ...891...91D [ADS](#)
- Schlischenmaier, R., Bellot Rubio, L. R., Collados, M., et al., “*Science Requirement Document (SRD) for the European Solar Telescope (EST) (2nd edition, December 2019)*”, 2019arXiv191208650S [ADS](#)
- Manso Sainz, R., del Pino Alemán, T., Casini, R., & McIntosh, S., “*Spectropolarimetry of the Solar Mg II h and k Lines*”, 2019ApJ...883L..30M [ADS](#)
- Scowen, P., Ignace, R., Neiner, C., et al., “*PolStar - An Explorer-Class FUV Spectropolarimetry Mission to Map the Environments of Massive Stars*”, 2019BAAS...51g.167S [ADS](#)
- Ishikawa, R., Trujillo Bueno, J., Uitenbroek, H., et al., “*Comparison of Scattering Polarization Signals Observed by CLASP: Possible Indication of the Hanle Effect*”, 2019ASPC..526..305I [ADS](#)
- Manso Sainz, R., del Pino Alemán, T., & Casini, R., “*Magnetic Field Diagnostics with Strong Chromospheric Lines*”, 2019ASPC..526..145M [ADS](#)
- Trujillo Bueno, J., Štěpán, J., Belluzzi, L., et al., “*CLASP Constraints on the Magnetization and Geometrical Complexity of the Chromosphere-Corona Transition Region*”, 2018ApJ...866L..15T [ADS](#)
- Štěpán, J., Trujillo Bueno, J., Belluzzi, L., et al., “*A Statistical Inference Method for Interpreting the CLASP Observations*”, 2018ApJ...865...48S [ADS](#)
- Ishikawa, R., Sakao, T., Katsukawa, Y., et al., “*Current State of UV Spectropolarimetry and its Future Direction*”, 2018cosp...42E1564I [ADS](#)
- Casini, R., Manso Sainz, R., & del Pino Alemán, T., “*Rayleigh Scattering in Spectral Series with L-term Interference*”, 2017ApJ...850..162C [ADS](#)
- Casini, R., del Pino Alemán, T., & Manso Sainz, R., “*Explicit Form of the Radiative and Collisional Branching Ratios in Polarized Radiation Transport with Coherent Scattering*”, 2017ApJ...848...99C [ADS](#)
- Ishikawa, R., Trujillo Bueno, J., Uitenbroek, H., et al., “*Indication of the Hanle Effect by Comparing the Scattering Polarization Observed by CLASP in the Lyα and Si III 120.65 nm Lines*”, 2017ApJ...841...31I [ADS](#)
- Giono, G., Ishikawa, R., Narukage, N., et al., “*Polarization Calibration of the Chromospheric Lyman-Alpha SpectroPolarimeter for a 0.1 Polarization Sensitivity in the VUV Range. Part II: In-Flight Calibration*”, 2017SoPh..292...57G [ADS](#)
- Kano, R., Trujillo Bueno, J., Winebarger, A., et al., “*Discovery of Scattering Polarization in the Hydrogen Lyα Line of the Solar Disk Radiation*”, 2017ApJ...839L..10K [ADS](#)
- Casini, R., del Pino Alemán, T., & Manso Sainz, R., “*A Note on the Radiative and Collisional Branching Ratios in Polarized Radiation Transport with Coherent Scattering*”, 2017ApJ...835..114C [ADS](#)
- Casini, R. & Manso Sainz, R., “*Laboratory Frequency Redistribution Function for the Polarized Λ-type Three-term Atom*”, 2016ApJ...833..197C [ADS](#)
- Kubo, M., Katsukawa, Y., Suematsu, Y., et al., “*Discovery of Ubiquitous Fast-Propagating Intensity Disturbances by the Chromospheric Lyman Alpha Spectropolarimeter (CLASP)*”, 2016ApJ...832..141K [ADS](#)
- del Pino Alemán, T., Casini, R., & Manso Sainz, R., “*Magnetic Diagnostics of the Solar Chromosphere with the Mg II h-k Lines*”, 2016ApJ...830L..24D [ADS](#)
- Casini, R. & Manso Sainz, R., “*Frequency Redistribution of Polarized Light in the Λ-Type Multi-Term Polarized Atom*”, 2016ApJ...824..135C [ADS](#)
- Kano, R., Ishikawa, R., Winebarger, A. R., et al., “*Spectro-polarimetric observation in UV with CLASP to probe the chromosphere and transition region*”, 2012SPD...4710107K [ADS](#)
- Ishikawa, R., Kano, R., Winebarger, A., et al., “*CLASP: A UV Spectropolarimeter on a Sounding Rocket for Probing the Chromosphere-Corona Transition Region*”, 2015IAUGA..2254536I [ADS](#)
- Asensio Ramos, A., Martínez González, M. J., & Manso Sainz, R., “*Estimating the magnetic field strength from magnetograms*”, 2015A&A...577A..125A [ADS](#)
- Martínez González, M. J., Manso Sainz, R., Asensio Ramos, A., et al., “*Spectro-Polarimetric Imaging Reveals Helical Magnetic Fields in Solar Prominence Feet*”, 2015ApJ...802...3M [ADS](#)
- Martínez González, M. J., Asensio Ramos, A., Manso Sainz, R., Corradi, R. L. M., & Leone, F., “*Constraining the shaping mechanism of the Red Rectangle through the spectro-polarimetry of its central star*”, 2015A&A...574A..16M [ADS](#)
- Kuckein, C., Collados, M., & Manso Sainz, R., “*Magnetic and Dynamical Photospheric Disturbances Observed During an M3.2 Solar Flare*”, 2015ApJ...799L..25K [ADS](#)
- Rodríguez, M. & Manso Sainz, R., “*Abundance Determinations in Ionized Nebulae and their Sensitivity to Temperature*”, 2014RMxAC..44...22R [ADS](#)
- Kubo, M., Kano, R., Kobayashi, K., et al., “*A Sounding Rocket Experiment for the Chromospheric Lyman-Alpha Spectro-Polarimeter (CLASP)*”, 2014ASPC..489..307K [ADS](#)
- Casini, R., Landi Degl'Innocenti, M., Manso Sainz, R., Landi Degl'Innocenti, E., & Landolfi, M., “*Frequency Redistribution Function for the Polarized Two-term Atom*”, 2014ApJ...791...94C [ADS](#)
- Manso Sainz, R., Roncero, O., Sanz-Sanz, C., et al., “*Depolarizing Collisions with Hydrogen: Neutral and Singly Ionized Alkaline Earths*”, 2014ApJ...788..118M [ADS](#)
- Ishikawa, R., Asensio Ramos, A., Belluzzi, L., et al., “*On the Inversion of the Scattering Polarization and the Hanle Effect Signals in the Hydrogen Lyα Line*”, 2014ApJ...787..159I [ADS](#)
- Asensio Ramos, A., Martínez González, M. J., Manso Sainz, R., Corradi, R. L. M., & Leone, F., “*Upper Limits to the Magnetic Field in Central Stars of Planetary Nebulae*”, 2014ApJ...787..111A [ADS](#)
- del Pino Alemán, T., Manso Sainz, R., & Trujillo Bueno, J., “*Non-coherent Continuum Scattering as a Line Polarization Mechanism*”, 2014ApJ...784..46D [ADS](#)
- Leone, F., Corradi, R. L. M., Martínez González, M. J., Asensio Ramos, A., & Manso Sainz, R., “*A search for magnetic fields on central stars in planetary nebulae*”, 2014A&A...563A..43L [ADS](#)
- Collados, M., Kuckein, C., Manso Sainz, R., & Asensio Ramos, A., “*Magnetic, Thermal and Dynamical Evolution of AN M3.2 Two-Ribbon Flare*”, 2014cosp...40E.568C [ADS](#)
- Kobayashi, K., Kano, R., Trujillo Bueno, J., et al., “*Chromospheric Lyman Alpha SpectroPolarimeter: CLASP*”, 2013SPD...44..142K [ADS](#)
- Asensio Ramos, A. & Manso Sainz, R., “*Signal detection for spectroscopy and polarimetry*”, 2013hsa7.conf..771A [ADS](#)
- Manso Sainz, R. & Martínez González, M. J., “*Hanle Effect for Stellar Dipoles and Quadrupoles*”, 2012ApJ...760...7M [ADS](#)
- Martínez González, M. J., Asensio Ramos, A., Manso Sainz, R., Beck, C., & Belluzzi, L., “*Anomalous Circular Polarization Profiles in the He I 1083.0 nm Multiplet from Solar Spicules*”, 2012ApJ...759..16M [ADS](#)
- Asensio Ramos, A. & Manso Sainz, R., “*Signal detection for spectroscopy and polarimetry*”, 2012A&A...547A..113A [ADS](#)
- Kano, R., Bando, T., Narukage, N., et al., “*Chromospheric Lyman-alpha spectro-polarimeter (CLASP)*”, 2012SPIE.8443E..4FK [ADS](#)
- López Ariste, A., Leblanc, F., Casini, R., et al., “*Resonance scattering polarization in the magnetosphere of Mercury*”, 2012Icar..220..1104L [ADS](#)
- Martínez González, M. J., Manso Sainz, R., Asensio Ramos, A., & Hijano, E., “*Dead Calm Areas in the Very Quiet Sun*”, 2012ApJ...755..175M [ADS](#)
- Carlin, E. S., Manso Sainz, R., Asensio Ramos, A., & Trujillo Bueno, J., “*Scattering Polarization in the Ca II Infrared Triplet with Velocity Gradients*”, 2012ApJ...751...5C [ADS](#)
- Kobayashi, K., Kano, R., Trujillo-Bueno, J., et al., “*The Chromospheric Lyman-Alpha SpectroPolarimeter: CLASP*”, 2012ASPC..456..233K [ADS](#)
- Asensio Ramos, A., Manso Sainz, R., Martínez González, M. J., et al., “*Model Selection for Spectropolarimetric Inversions*”, 2012ApJ...748..83A [ADS](#)
- Martínez González, M. J., Manso Sainz, R., Asensio Ramos, A., & Belluzzi, L., “*Analytical maximum likelihood estimation of stellar magnetic fields*”, 2012MNRAS.419..153M [ADS](#)
- Manso Sainz, R. & Trujillo Bueno, J., “*Scattering Polarization and Hanle Effect in Stellar Atmospheres with Horizontal Inhomogeneities*”, 2011ApJ...743...12M [ADS](#)
- Kobayashi, K., Tsuneta, S., Trujillo Bueno, J., et al., “*The Chromospheric Lyman-Alpha SpectroPolarimeter (CLASP)*”, 2011AGUFM.P14C..05K [ADS](#)
- Manso Sainz, R., “*Polarization Diagnostics of Solar Magnetic Fields*”, 2011AGUFM.P14C..01M [ADS](#)
- Trujillo Bueno, J., Stepan, J., Belluzzi, L., & Manso Sainz, R., “*The Hanle Effect from Space for Measuring the Magnetic Fields of the Upper Solar Chromosphere*”, 2011AGUFM.P11F1626T [ADS](#)
- Narukage, N., Tsuneta, S., Bando, T., et al., “*Overview of Chromospheric Lyman-Alpha SpectroPolarimeter (CLASP)*”, 2011SPIE.8148E..0HN [ADS](#)

- Manso Sainz, R. & Trujillo Bueno, J., “Erratum: “Scattering Polarization of the Ca II IR Triplet for Probing the Quiet Solar Chromosphere””, [2010ApJ...722.1416M](#) ADS
- Manso Sainz, R., Martínez González, M. J., & Asensio Ramos, A., “Advection and dispersal of small magnetic elements in the very quiet Sun”, [2011A&A...531L...9M](#) ADS
- Matínez González, M. J., Leone, F., Corradi, R., Manso Sainz, R., & Privitera, G.: 2011, *Are magnetic fields shaping PNe?*, IAC Talks, Astronomy and Astrophysics Seminars from the Instituto de Astrofísica de Canarias, id.255 [2011iac..talk..255M](#) ADS
- Leone, F., Martínez González, M. J., Corradi, R. L. M., Privitera, G., & Manso Sainz, R., “Non-detection of Magnetic Fields in the Central Stars of the Planetary Nebulae NGC 1360 and LSS 1362”, [2011ApJ...731L..33L](#) ADS
- Asensio Ramos, A. & Manso Sainz, R., “On the Inversion of Stokes Profiles with Local Stray-light Contamination”, [2011ApJ...731..125A](#) ADS
- Martínez González, M. J., Asensio Ramos, A., Manso Sainz, R., et al., “Unnoticed Magnetic Field Oscillations in the Very Quiet Sun Revealed by SUNRISE/IMaX”, [2011ApJ...730L..37M](#) ADS
- Ishikawa, R., Bando, T., Fujimura, D., et al., “A Sounding Rocket Experiment for Spectropolarimetric Observations with the Ly_α Line at 121.6 nm (CLASP)”, [2011ASPC..437..287I](#) ADS
- Manso Sainz, R., “Elementary Theory of Scattering Polarization in Complex Atoms”, [2011ASPC..437..19M](#) ADS
- Uribe-Patarroyo, N., Alvarez-Herrero, A., López Ariste, A., et al., “Detecting photons with orbital angular momentum in extended astronomical objects: application to solar observations”, [2011A&A...526A..56U](#) ADS
- Manso Sainz, R. & Trujillo Bueno, J., “Scattering Polarization of the Ca II IR Triplet for Probing the Quiet Solar Chromosphere”, [2010ApJ...722.1416M](#) ADS
- Martínez González, M. J., Manso Sainz, R., Asensio Ramos, A., & Bellot Rubio, L. R., “Small Magnetic Loops Connecting the Quiet Surface and the Hot Outer Atmosphere of the Sun”, [2010ApJ...714L..94M](#) ADS
- Martínez González, M. J., Manso Sainz, R., López Ariste, A., Bellot Rubio, L. R., & Bianda, M.: 2010, *The stochastic, intermittent nature of quiet Sun magnetism*, IAC Talks, Astronomy and Astrophysics Seminars from the Instituto de Astrofísica de Canarias, id.1 [2010iac..talk....1M](#) ADS
- Lites, B. W., Casini, R., Manso Sainz, R., et al., “Scattering Polarization in the Fe I 630 nm Emission Lines at the Extreme Limb of the Sun”, [2010ApJ...713..450L](#) ADS
- Martínez González, M. J., Manso Sainz, R., Asensio Ramos, A., López Ariste, A., & Bianda, M., “Statistical Analysis of the very Quiet Sun Magnetism”, [2010ApJ...711L..57M](#) ADS
- Casini, R., Manso Sainz, R., & Low, B. C., “Polarimetric Diagnostics of Unresolved Chromospheric Magnetic Fields”, [2009ApJ...701L..43C](#) ADS
- Kuckein, C., Centeno, R., Martínez Pillet, V., et al., “Magnetic field strength of active region filaments”, [2009A&A...501..1113K](#) ADS
- López Ariste, A., Asensio Ramos, A., Manso Sainz, R., Derouich, M., & Gelly, B., “Variability of the polarization profiles of the Ba II D2 line in the solar atmosphere”, [2009A&A...501..729L](#) ADS
- Manso Sainz, R. & Trujillo Bueno, J., “A Possible Polarization Mechanism of EUV Coronal Lines”, [2009ASPC..405..423M](#) ADS
- Martínez González, M. J., Asensio Ramos, A., López Ariste, A., & Manso Sainz, R., “Near-IR internetwork spectro-polarimetry at different heliocentric angles”, [2008A&A...479..229M](#) ADS
- Derouich, M., Trujillo Bueno, J., & Manso Sainz, R., “Are collisions with neutral hydrogen important for modeling the second solar spectrum of Ti I and Ca II?”, [2007A&A...472..269D](#) ADS
- López Ariste, A., Malherbe, J. M., Manso Sainz, R., et al., “Turbulent fields in the quiet sun from Hanle and Zeeman effects with THEMIS”, [2007sf2a.conf..596L](#) ADS
- Manso Sainz, R. & Trujillo Bueno, J., “Scattering Polarization of the Ca II Infrared Triplet as Diagnostic of the Quiet Solar Chromosphere”, [2007ASPC..368..155M](#) ADS
- Socas-Navarro, H., Asensio Ramos, A., & Manso Sainz, R., “A synthetic stellar polarization atlas from 400 to 1000 nm”, [2007A&A...465..339S](#) ADS
- Socas-Navarro, H., Asensio Ramos, A., & Manso Sainz, R., “VizieR Online Data Catalog: Synthetic stellar polarization 400-1000nm (Socas-Navarro+ 2007)”, [2007yCat..34650339S](#) ADS
- Casini, R. & Manso Sainz, R., “The Effect of Turbulent Electric Fields on the Scattering Polarization of Hydrogen Lines”, [2006ASPC..358..429C](#) ADS
- Casini, R. & Manso Sainz, R., “Scattering polarization of hydrogen lines in the presence of turbulent electric fields”, [2006JPhB...39.3241C](#) ADS
- Manso Sainz, R., Landi Degl'Innocenti, E., & Trujillo Bueno, J., “A qualitative interpretation of the second solar spectrum of Ce II”, [2006A&A...447..1125M](#) ADS
- Casini, R. & Manso Sainz, R., “Line Formation Theory for the Multiterm Atom with Hyperfine Structure in a Magnetic Field”, [2005ApJ...624.1025C](#) ADS
- Socas-Navarro, H. & Manso Sainz, R., “Shocks in the Quiet Solar Photosphere: A Rather Common Occurrence”, [2005ApJ...620L..71S](#) ADS
- Manso Sainz, R., Landi Degl'Innocenti, E., & Trujillo Bueno, J., “Concerning the Existence of a “Turbulent” Magnetic Field in the Quiet Sun”, [2004ApJ...614L..89M](#) ADS
- Asensio Ramos, A., Trujillo Bueno, J., Bianda, M., Manso Sainz, R., & Uitenbroek, H., “Observation of the Molecular Zeeman Effect in the G Band”, [2004ApJ...611L..61A](#) ADS
- Manso Sainz, R. & Trujillo Bueno, J., “Zero-Field Dichroism in the Solar Chromosphere”, [2003PhRvL..91k1102M](#) ADS
- Manso Sainz, R. & Landi Degl'Innocenti, E., “Towards the Understanding of the Second Solar Spectrum of Ti I”, [2003ASPC..307..425M](#) ADS
- Manso Sainz, R. & Trujillo Bueno, J., “A Multilevel Radiative Transfer Program for Modeling Scattering Line Polarization and the Hanle Effect in Stellar Atmospheres”, [2003ASPC..307..251M](#) ADS
- Manso Sainz, R. & Landi Degl'Innocenti, E., “A qualitative interpretation of the second solar spectrum of Ti I”, [2002A&A...394..1093M](#) ADS
- Trujillo Bueno, J. & Manso Sainz, R., “Remote sensing of chromospheric magnetic fields via the Hanle and Zeeman effects”, [2002NCimC..25..783T](#) ADS
- Manso Sainz, R.: 2002, *Polarization by scattering processes and the Hanle effect in weakly magnetized stellar atmospheres*, Ph.D. thesis, University of La Laguna, Spain [2002PhDT.....308M](#) ADS
- Trujillo Bueno, J., Landi Degl'Innocenti, E., Collados, M., Merenda, L., & Manso Sainz, R., “Selective absorption processes as the origin of puzzling spectral line polarization from the Sun”, [2002Natur.415..403T](#) ADS
- Trujillo Bueno, J. & Manso Sainz, R., “Metastable-level Atomic Polarization and the Diagnostic Problem of Chromospheric Magnetic Fields”, [2001ASPC..248..83T](#) ADS
- Manso Sainz, R. & Trujillo Bueno, J., “Modeling the Scattering Line Polarization of the Ca II Infrared Triplet”, [2001ASPC..236..213M](#) ADS
- Trujillo Bueno, J. & Manso Sainz, R., “Iterative Methods for the Non-LTE Transfer of Polarized Radiation: Resonance Line Polarization in One-dimensional Atmospheres”, [1999ApJ...516..436T](#) ADS
- Rodríguez Hidalgo, I., Collados, M., Manso Sainz, R., & Barkler, J., “Thermodynamical properties of granulation in active regions.”, [1999joso.proc..195R](#) ADS
- Manso Sainz, R. & Trujillo-Bueno, J., “The Hanle effect in 1D, 2D and 3D”, [1999ASSL..243..143M](#) ADS
- Manso Sainz, R., Rodríguez Hidalgo, I., & Collados, M., “Quiet and Active Granulation Properties”, [1999ASSL..239..197M](#) ADS