

PUBLICACIONES EN REVISTAS INTERNACIONALES CON ÁRBITRO

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- 1.- **A broadband X-ray view of the ultraluminous sources in the galaxies ESO 501–023 and IC 5052**
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- 2.- **A GTC spectroscopic study of three spider pulsar companions: line-based temperatures, a new face-on redback, and improved mass constraints**
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- 4.- **A sub-Earth-mass planet orbiting Barnard's star: No evidence of transits in TESS photometry**
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- 6.- **Assessing the accuracy of star formation rate measurements by direct star count in molecular clouds**
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- 13.- **Connection between planetary He I $\lambda 10\,830$ Å absorption and extreme-ultraviolet emission of planet-host stars**
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- 392.- A numerical approach for modelling the polarisation signals of strong resonance lines with partial frequency redistribution: Applications to two-term atoms and plane-parallel atmospheres**
Riva, Fabio; Janett, Gioele; Belluzzi, Luca; del Pino Alemán, Tanausú; Alsina Ballester, Ernest; Trujillo Bueno, Javier; Benedusi, Pietro; Riva, Simone; Krause, Rolf[2025A&A...699A.233R](#)
- 393.- A physically motivated galaxy size definition across different state-of-the-art hydrodynamical simulations**
Arjona-Gálvez, Elena; Cardona-Barrero, Salvador; Grand, Robert J. J.; Di Cintio, Arianna; Dalla Vecchia, Claudio; Benavides, Jose A.; Macciò, Andrea V.; Libeskind, Noam; Knebe, Alexander[2025A&A...699A.301A](#)
- 394.- Advancing the accuracy in age determinations of old-disk stars using an oscillating red giant in an eclipsing binary**
Thomsen, J. S. *et al.* (incluye a Jones, D.; Slumstrup, D.)[2025A&A...699A.152T](#)
- 395.- ALMA millimetre-wavelength imaging of HD 138965: new constraints on the debris dust composition and presence of planetary companions**
Marshall, J. P. *et al.* (incluye a del Burgo, C.)[2025MNRAS.541...71M](#)
- 396.- Application of Deep Learning to the Classification of Stokes Profiles: From the Quiet Sun to Sunspots**
Campbell, Ryan J.; Mathioudakis, M.; Quintero Noda, Carlos; Keys, P. H.; Orozco Suárez, D.[2025ApJ...988....9C](#)
- 397.- Asteroseismology of WD J004917.14-252556.81, the Most Massive Pulsating White Dwarf**
Caliskan, Ozcan *et al.* (incluye a Dhillon, Vikram S.)[2025ApJ...988...32C](#)
- 398.- Binarity at LOW Metallicity (BLOeM): pipeline-determined physical properties of OB stars**
Bestenlehner, J. M. *et al.* (incluye a Simón-Díaz, S.; Lennon, D. J.)[2025MNRAS.540.3523B](#)
- 399.- C-19 and Hot, Wide Star Streams**
Carlberg, Raymond G.; Ibata, Rodrigo; Martin, Nicolas F.; Starkenburg, Else; Aguado, David S.; Malhan, Khyati; Venn, Kim; Yuan, Zhen[2025ApJ...988...96C](#)
- 400.- CGCS 6306, another X-ray-emitting asymptotic giant branch star confirmed to be a symbiotic binary**
Merc, Jaroslav; Guerrero, Martín A.; Toalá, Jesús A.; Ortiz, Roberto[2025A&A...699A.117M](#)
- 401.- CHEX-MATE: Exploring the kinematical properties of Planck galaxy clusters**
Pizzuti, Lorenzo *et al.* (incluye a Barrena, Rafael; Streblyanska, Alina)[2025A&A...699A..88P](#)
- 402.- Coronal Magnetometry with EUV Permitted Lines**
Shchukina, Nataliia G.; Trujillo Bueno, Javier; Hebbur Dayananda, Supriya; Manso Sainz, Rafael; Sukhorukov, Andrii V.[2025ApJ...988...33S](#)
- 403.- Dark skies of the slightly eccentric WASP-18 b from its optical-to-infrared dayside emission**
Deline, A. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.)[2025A&A...699A.150D](#)

- 404.- **Decoding the molecular torus of NGC 1068: Insights into its structure and kinematics from high-resolution ALMA observations**
Gámez Rosas, V. *et al.* (incluye a Ramos Almeida, C.)[2025A&A...699A.187G](#)
- 405.- **DESI 2024 II: sample definitions, characteristics, and two-point clustering statistics**
Adame, A. G. *et al.* (incluye a Carnero Rosell, A.; Kitauro, F. -S.)[2025JCAP...07..017A](#)
- 406.- **DESI 2024 VII: cosmological constraints from the full-shape modeling of clustering measurements**
Adame, A. G. *et al.* (incluye a Allende Prieto, C.; Carnero Rosell, A.)[2025JCAP...07..028A](#)
- 407.- **EP 250108a/SN 2025kg: Observations of the Most Nearby Broad-line Type Ic Supernova Following an Einstein Probe Fast X-Ray Transient**
Rastinejad, Jillian C. *et al.* (incluye a Mata Sánchez, Daniel; Torres, Manuel A. P.)[2025ApJ...988L..13R](#)
- 408.- **Euclid: Early Release Observations – The surface brightness and colour profiles of the far outskirts of galaxies in the Perseus cluster**
Mondelin, M. *et al.* (incluye a Sanchez-Alarcon, P. M.; Knapen, J. H.)[2025A&A...699A.214M](#)
- 409.- **Finding White Dwarfs' Hidden Companions Using an Unsupervised Machine Learning Technique**
Pérez-Couto, Xabier; Manteiga, Minia; Villaver, Eva[2025ApJ...988...51P](#)
- 410.- **Generalized Fluid Models of the Braginskii Type. II. The Boltzmann Operator**
Hunana, P.[2025ApJS..279....6H](#)
- 411.- **Giant Outer Transiting Exoplanet Mass (GOT 'EM) Survey. VI. Confirmation of a Long-period Giant Planet Discovered with a Single TESS Transit**
Essack, Zahra *et al.* (incluye a Barkaoui, Khalid; Murgas, Felipe; Palle, Enric)[2025AJ....170...41E](#)
- 412.- **GOTO065054+593624: An 8.5 mag amplitude dwarf nova identified in real time via Kilonova Seekers**
Killestein, T. L. *et al.* (incluye a Dhillon, V. S.; Pallé, E.)[2025A&A...699A...8K](#)
- 413.- **Inferring chromospheric velocities in an M3.2 flare using He I 1083.0 nm and Ca II 854.2 nm**
Kuckein, C.; Collados, M.; Asensio Ramos, A.; Díaz Baso, C. J.; Felipe, T.; Quintero Noda, C.; Kleint, L.; Fletcher, L.; Matthews, S.[2025A&A...699A.121K](#)
- 414.- **INSPIRE: INvestigating Stellar Populations In RELics - IX. KiDS J0842 + 0059: the first fully confirmed relic beyond the local Universe**
Tortora, C. *et al.* (incluye a Ferré-Mateu, A.)[2025MNRAS.540.2555T](#)
- 415.- **Is the symbiotic recurrent nova T CrB late? Recent photometric evolution and comparison with past pre-outburst behaviour**
Merc, Jaroslav *et al.*[2025MNRAS.541L..14M](#)
- 416.- **JWST mid-infrared spectroscopy of centaurs and small trans-Neptunian objects: Linking the inner and outer Solar System**
Vernazza, P. *et al.* (incluye a Licandro, J.)[2025A&A...699A.167V](#)
- 417.- **Merging plasmoids and nanojet-like ejections in a coronal current sheet**
Sen, Samrat; Moreno-Insertis, Fernando[2025A&A...699A.106S](#)
- 418.- **MOA-2022-BLG-091Lb and KMT-2024-BLG-1209Lb: Microlensing planets detected through weak caustic-crossing signals**
Han, Cheongho *et al.* (incluye a Fukui, Akihiko)[2025A&A...699A..91H](#)
- 419.- **Molecular gas excitation and outflow properties of obscured quasars at $z \sim 0.1$**
Audibert, A.; Ramos Almeida, C.; García-Burillo, S.; Speranza, G.; Lamperti, I.; Pereira-Santaella, M.; Panessa, F.[2025A&A...699A..83A](#)

- 420.- New Clues on the Extended He II Ionization in IZw18 from GTC/MEGARA and JWST/MIRI**
Arroyo-Polonio, A.; Kehrig, C.; Vílchez, J. M.; Iglesias-Páramo, J.; Pérez-Montero, E.; Duarte Puertas, S.; Gallego, J.; Reverte, D.[2025ApJ...987L..36A](#)
- 421.- Non-transiting exoplanets as a means of understanding star–planet interactions in close-in systems**
Gourvès, C.; Breton, S. N.; Dyrek, A.; Lanza, A. F.; García, R. A.; Mathur, S.; Santos, Â. R. G.; Strugarek, A.[2025A&A...699A.226G](#)
- 422.- Observation of Diffuse Galactic Light Near the Galactic Center with ONC-T on Board Hayabusa2**
Sano, Kei *et al.* (incluye a Tatsumi, Eri)[2025ApJ...988...12S](#)
- 423.- Optimizing the analysis of emission lines in galaxies: the case of the MUSE TIMER galaxy NGC 613**
Silva-Lima, Luiz A. *et al.* (incluye a Falcón-Barroso, Jesús; de Lorenzo-Cáceres, Adriana; Méndez-Abreu, Jairo)[2025MNRAS.540.2787S](#)
- 424.- P-CORONA: A New Tool for Calculating the Intensity and Polarization of Coronal Lines in 3D Models of the Solar Corona**
Hebbur Dayananda, Supriya; de Vicente, Ángel; del Pino Alemán, Tanausú; Trujillo Bueno, Javier; Shchukina, Nataliia G.[2025ApJ...987...39H](#)
- 425.- Probing Abundance Variations Among Multiple Stellar Populations in the Metal-poor Globular Cluster NGC 2298 Using Gemini-South/GHOST**
Bandyopadhyay, Avrajit; Ezzeddine, Rana; Placco, Vinicius M.; Frebel, Anna; Aguado, David S.; Roederer, Ian U.[2025AJ....170...37B](#)
- 426.- Spatially resolved stellar populations and emission line properties in nearby galaxies with J-PLUS: I. Method and first results for the M101 group**
Thainá-Batista, J. *et al.* (incluye a Hernández-Monteagudo, C.)[2025A&A...699A..45T](#)
- 427.- The 2023 Outburst of the Gaia Alerted EXor Gaia23bab**
Nagy, Zsófia *et al.* (incluye a Fiorellino, Eleonora)[2025ApJ...987...37N](#)
- 428.- The 2024 May event in the context of auroral activity over the past 375 yr**
Lockwood, Mike; Owens, Mathew J.; Brown, William; Vázquez, Manuel[2025MNRAS.540.3596L](#)
- 429.- The Central Engine of Low-luminosity Radio Galaxy 3C 270 (NGC 4261)**
Jiang, Chengzhang; Antonucci, Robert; Acosta-Pulido, J. A.; Ogle, Patrick[2025ApJ...987..118J](#)
- 430.- The diverse physical origins of stars in the dynamically hot bulge: CALIFA versus IllustrisTNG**
Zhang, Le; Zhu, Ling; Pillepich, Annalisa; Du, Min; Jiang, Fangzhou; Falcón-Barroso, Jesús[2025A&A...699A.320Z](#)
- 431.- The ESPRESSO Redshift Drift Experiment: I. High-resolution spectra of the Lyman- α forest of QSO J052915.80-435152.0**
Trost, A. *et al.* (incluye a Génova Santos, R.; González Hernández, J. I.; Palle, E.; Suárez Mascareño, A.)[2025A&A...699A.159T](#)
- 432.- The Isaac Newton Telescope Monitoring Survey of Local Group Dwarf Galaxies. VII. Long-period Variable Stars in the Nearest Starburst Dwarf Galaxy, IC 10**
Gholami, Mahtab; Javadi, Atefeh; Mahani, Hamidreza; van Loon, Jacco Th.; Khosroshahi, Habib; Saremi, Elham; McDonald, Iain; Eftekhari, Samaneh; Ren, Yi; Altafi, Hamed[2025AJ....170...54G](#)
- 433.- The Kangaroo's First Hop: The Early Fast Cooling Phase of EP250108a/SN 2025kg**
Eyles-Ferris, Rob A. J. *et al.* (incluye a Mata Sánchez, Daniel; Torres, Manuel A. P.)[2025ApJ...988L..14E](#)
- 434.- The nature of the X-ray binary transient MAXI J1834–021: Clues from its first observed outburst**
Manca, A. *et al.* (incluye a Borghese, A.; Armas Padilla, M.; Muñoz-Darias, T.)[2025A&A...699A.114M](#)

- 435.- **The Pristine Inner Galaxy Survey (PIGS): XI. Revealing the chemical evolution of the interacting Sagittarius dwarf galaxy**
Vitali, Sara *et al.* (incluye a Fernández-Alvar, Emma; Aguado, David)[2025A&A...699A.163V](#)
- 436.- **The role of the Lorentz force in sunspot equilibrium**
Borrero, J. M.; Pastor Yabar, A.; Schmassmann, M.; Rempel, M.; van Noort, M.; Collados, M.[2025A&A...699A.149B](#)
- 437.- **The TOI-2427 system: Two close-in planets orbiting a late K-dwarf star**
Schmerling, H. *et al.* (incluye a Deeg, H. J.; Masseron, T.; Palle, E.; Nowak, G.; Mathur, S.)[2025A&A...699A.185S](#)
- 438.- **The uncertainty of magnetic fields in 3D non-local thermodynamic equilibrium inversions**
Štěpán, Jiří; del Pino Alemán, Tanausú; Vicente Arévalo, Andrés[2025A&A...699A..73S](#)
- 439.- **TOI-2407 b: a warm Neptune in the desert**
Janó Muñoz, C. *et al.* (incluye a Barkaoui, K.)[2025MNRAS.541..630J](#)
- 440.- **TP-AGB stars and stellar population properties of a post-starburst galaxy at $z \sim 2$ through optical and near-infrared spectroscopy with JWST**
Bevacqua, Davide *et al.* (incluye a Vazdekis, Alexandre)[2025A&A...699A.203B](#)
- 441.- **Analysing quasar microlensing light curves with machine learning**
Jiménez-Vicente, J.; Mediavilla, E.[2025MNRAS.541.1264J](#)
- 442.- **Dissecting NGC 3132: tracing the mass-loss history of the southern ring planetary nebula**
Bouvis, K.; Akas, S.; Monteiro, H.; Konstantinou, L.; Boumis, P.; García-Rojas, J.; Gonçalves, D. R.; Monreal-Ibero, A.; Aleman, I.; Gourgouliatos, K. N.[2025MNRAS.541.1628B](#)
- 443.- **Eleven New Transiting Brown Dwarfs and Very-low-mass Stars from TESS**
Vowell, Noah *et al.* (incluye a Barkaoui, Khalid; Murgas, Felipe; Narita, Norio; de Leon, Jerome; Fukui, Akihiko; Palle, Enric)[2025AJ....170...68V](#)
- 444.- **KMT-2022-BLG-0086: Another Binary-lens Binary-source Microlensing Event**
Chung, Sun-Ju *et al.* (incluye a Fukui, Akihiko)[2025AJ....170...75C](#)
- 445.- **Morphology across cosmic time: assessing the evolution and interplay of disc- and bulge-dominated galaxies in the CANDELS survey**
Sampaio, V. M.; Kolesnikov, I.; de Carvalho, R. R.; Ferreras, I.; Silk, J.[2025MNRAS.541.1164S](#)
- 446.- **The Gaia-ESO Survey: projected rotational velocities of B stars in the Carina Nebula**
Santos, W. *et al.* (incluye a Herrero, A.; Berlanas, S. R.)[2025MNRAS.541.1449S](#)
- 447.- **The orbit of WASP-4 b is in decay**
Baştürk, Ö. *et al.* (incluye a Barkaoui, K.)[2025MNRAS.541..714B](#)
- 448.- **Few EURONEAR NEA mini-surveys observed with the INT, KASI and T80S telescopes during the ParaSOL synthetic tracking project**
Vaduvescu, O. *et al.* (incluye a de Leon, J.)[2025NewA..11902410V](#)
- 449.- **Hexa-(2-ethylhexyl)-hexa-peri-hexabenzocoronene as archetypal model compound of asphaltenes and MAONs**
Traspas Muina, A.; Barzaga, R.; García-Hernández, A.; Manchado, A.; Cataldo F.[10.1080/1536383X.2024.2410470](#)
- 450.- **Strong spectral features from asymptotic giant branch stars in distant quiescent galaxies**
Shiying Lu *et al.* (incluye a Chiara D'Eugenio; Marc Huertas-Company)[10.1038/s41550-024-02391-9](#)

451.- Landscape, path and liturgy in the myth of the hero of Itiraka

Ruiz, Arturo; Molinos, Manuel; **Esteban, Cesar**; Yanes, Miguel; Lechuga, Miguel
Angel [10.5209/cmpl.102416](https://doi.org/10.5209/cmpl.102416)

INVITED REVIEWS

2025-IR

Mathur S. "Solar-like stars: seismology and stellar magnetic activity" en "The Sun, Space Weather, and Solar-stellar connection", 20-24 Enero, Bangalore, India

Fiorellino E. "The Mass Accretion Rate on Young Stellar Objects: the challenge of the early stages" en "Kapteyn Colloquium", 12 Febrero, Groningen, Países Bajos

Audibert A. "The fate of galaxies: from morphologies to the co-evolution of black holes and their hosts" en "EDUCADO training school", 24-28 Febrero, Padova, Italia.

Herrero A. "Munichfest 2025: Celebrating 40 years of research on hot luminous stars", 7-11 Abril 2025, La Palma.

COMUNICACIONES A CONGRESOS INTERNACIONALES **(Contributions delivered at International Meetings)**

2025-CI

"JWST Solar System Workshop", 6-10 Enero, Meudon, Francia

Le Pivert-Jolivet, T. "JWST analysis of Klio" (CO)

"EDUCADO Annual Meeting", 13-17 Enero, La Palma

Audibert A. "An introductory talk about my career" (CO).

"MAGIC + LST F2F Science Meeting", 13-17 Enero, Munich, Alemania

López Oramas A. "SN 2023ixf" (CO)

Frías García-Lago F. "WR140" (CO)

"The formation and long-term evolution of circumbinary planetary systems across the H-R diagram", 14-17 Enero, Florencia, Italia

Deeg H.J. "Circumbinary planets with PLATO" (IT)

"Nucleosynthesis of Heavy Elements: r-process", 19-25 Enero, Hirschegg, Austria

Aguado D. "Actinide Production in Galactic Mergers" (IT).

"Sun, Space Weather and Solar-Stellar Connections", 20-27 Enero, Bangalore, India

Nóbrega-Siverio, D. "Small-scale flux emergence preceding a chain of energetic solar atmospheric events" (IT)

"Iberian White Dwarfs Meeting 2025", 21-23 Enero, A Coruña

Sowicka P. "The GW Vir instability strip in light of new observations of PG 1159 stars" (CO)

"Horizons for Optical long-baseline interferometry", 27-30 Enero, Paris, Francia

Battaglia, G. "Dark matter determinations in Local Group dwarf galaxies" (IT)

Euclid "From Q1 to DR1: Joint Local Universe, Galaxy Evolution and Primeval Universe Science Working Groups Meeting", 27-31 Enero 2025, La Laguna, Tenerife

Dunn M. "Guess That Shape: Inferring the 3D Geometries of Low-Surface Brightness Galaxies" (CO)

"First Annual ExGal-Twin Meeting" 27-31 Enero, La Laguna, Tenerife

Arjona-Gálvez E. "AGN on dwarf galaxies: a perspective from cosmological simulations" (CO)

Audibert A. "Unveiling molecular gas across local AGN populations with ALMA" (CO).

Arroyo-Polonio J.M. "Chemo-dynamical characterization of stellar populations and the dark matter halo of the Sculptor dwarf galaxy". (CO).

Thomas G. "How well can we unravel the accreted constituents of the Milky Way stellar halo? A test on cosmological hydrodynamical simulations" (CO)

"Horizons for Optical long-baseline interferometry", 27-30 Enero 2025, París, Francia

Battaglia G. "Dark matter determinations in Local Group dwarf galaxies" (IT, remote participation)

"Italian National Conference of Star and Planet Formation", 27-31 Enero, Sexten, Italia

Fiorellino E. "The Empirical Relations between Accretion Luminosity and the Luminosity of Accretion Tracers: are we using them correctly?" (CO)

"First Annual ExGal-Twin Meeting" 27-31 Enero, La Laguna, Tenerife

"Modelling the Milky Way structure: impact on stellar and gaseous kinematics" (CO)

"Exploring the Enigma of First Stars and Galaxies in the ERA of JWST", 27-31 Enero, Sesto, Italia

Aguado, D. "Where are the First Stars?" (IT).

"Know Thy Star, Know Thy Planet 2", 3-7 Febrero, Pasadena, EEUU

Suárez Mascareño, A. "Diving into the planetary system of Proxima with NIRPS" (CO)

"First meeting of the AsteroSHOP ISSI team", 3-7 Febrero, Berna, Suiza

Battaglia, G. "The WEAVE Galactic Archaeology surveys" (IT)

Thomas, G. "Spectro-Translator: Principle, current limitation and its future" (CO)

"CDY", 12 Febrero, Online

López Oramas A. "TeV gamma-loud binaries." (IT)

"Spanish ALMA Days", 18-20 Febrero, Tenerife

Audibert A. "Archival Science Overview" (IT).

"ISSI meeting of the team "Multi-scale variability in solar and stellar magnetic cycles", 24-28 Febrero, Bern, Suiza

Beck P. "The effect of stellar tides on stellar oscillation" (IT)

"LASCAS2025", 25-28 Febrero, Bento Gonçalves, Brasil

Portero-Rodríguez, D.; García-Vázquez, H.; Díaz García, J.J.; Rodríguez Ramos, L.F.; López Aguerri, J.A. "Photonic Integrated Circuits for Astronomy: A mathematical description of an integrated photonics-based wavefront sensor (IP-WFS)" (CO).

"Whole Sun IPa Meeting", 3-7 Marzo, Paris, Francia

Navarro A. "Modeling Solar Atmosphere Dynamics with MAGEC" (CO).

"New Space & Solutions", 17-21 Marzo, Sevilla

Oscos A. "El papel del New Space en la gestión de catástrofes naturales desde el espacio" (IT)

"21st Scientific CARMENES meeting", 25-27 Marzo, Hamburgo, Alemania

Geraldía-González S., Pallé E., Murgas F., Lacedelli G. "First results of CARMENES-MULTIVERSE" (CO).

"ISSI meeting of the team "The Early Milky Way", 31 Marzo-4 Abril, Berna, Suiza

Battaglia G. "The WEAVE Galactic Archaeology LRhighlat subsurvey" (IT, remote participation)

"The True Appearance of Black Holes (TRABH) Conference" 31 Marzo- 4 Abril, Milán, Italia.

Ambriani A. "Accretion Disc Winds in BHXBs: a Multiwavelength View" (IT)

"2nd Hayabusa2 Data Analysis Workshop", 3 Abril, Sagami-hara, Japan

Prodan G.P., Popescu M., de León J., Tatsumi E., Grieger B., Licandro J., Kohout T., Küppers M. "Methods for analyzing HyperScout-H images" (CO)

"The 2nd International Conference of Deep Space Sciences (ICDSS2025)", 4-11 Abril, Hefei, China

Chengzi Jiang. "Multi-Color Validation of Habitable-Zone Super-Earth Candidates Using GTC HiPERCAM" (OC).

"AI-Empowered Astronomy for Open Science", 7-9 Abril, Hangzhou, China

Aguado D. S. "Follow-up of Supernovae with Canary Islands Facilities" (CO).

Alarcón M. R. "ROBOTQOP: A Two-Year Sprint to a Complete Optimization System for Robotic Telescope Arrays in the Teide Observatory" (CO).

Gutiérrez de la Cruz C. "The New Robotic Telescope: Unveiling the Transient Universe" (CO).

Poidevin F. "The Role of Canary Islands Observatories in Time-Domain Astronomy and Future Collaborations" (CO).

"Munichfest 2025: Celebrating 40 years of research on hot luminous stars", 7-11 Abril, La Palma

Casasbuenas A., Simón Díaz S., Negueruela. I. "Spectroscopic parameters of the B-type stars in the modern grid of standards for spectral classification" (P)

"ISSI-BJ Workshop on Space-based Stellar Astrophysics in the Ultraviolet", 14-18 Abril, Beijing, China

Vazdekis A. "Modelling the integrated light of the stellar populations in the NUV and FUV spectral ranges" (IT).

"1st AtLAST2 Consortium Meeting", 28-30 Abril, Cagliari, Italia

Evanthia Hatziminaolgu, "AtLAST Operations" (IT)

"Variable Galactic Gamma-Ray Sources" (VGGRS VII), 6-8 Mayo, Barcelona

Casares, J. "A revised orbital solution for HESS J0632+057 (=MWC 148)" (IT)

López Oramas A. "MAGIC view on binary systems" (IT)

"Astro Colloquium", 12 Mayo, Oxford, Reino Unido

López Oramas A. "TeV/PeV gamma-ray emission from binary systems" (IT)

"From fake news to real clusters", 13-16 Mayo, La Laguna, Tenerife

Dalla Vecchia C. "Simulating the first gigayear" (IT).

Hatziminaolgu E. "Over-densities around FIR-bright SDSS quasars" (IT)

"LST General Meeting, 19-23 Mayo, Madrid

López Oramas A. "Publications Report" (Plenary)

"Round Table on New Avenues in Particle Cosmology", 20-22 Mayo, Winchester, Reino Unido

Rubiño-Martin, J.A. "CMB Experiments at the Teide Observatory: Current Status and Future Prospects" (IT).

"2nd VHEgam Meeting, 26-28 Mayo, Bari, Italia

López Oramas A. "Science with CTAO" (IT)

"SPINS Meeting", 2-4 Junio, Sheffield, Reino Unido.

Koll Pistarini, M.; Khomenko, E.; Felipe, T. "Vortex Flows in the Solar Atmosphere: Detection and Heating Mechanisms in 3D MHD Numerical Simulations" (CO).

"Dark Matter 2025: From the Smallest to the Largest Scale", 2-6 June, Santander

Benito M. "Leveraging Machine Learning to Detect Dark Matter Subhalos in the Milky Way" (CO)

"IAU Symposium #396: Massive Galaxies Across the Universe", 9-13 Junio, Nápoles, Italia.

Eftekhari E. "Unveiling the Evolution of Massive Galaxies through Near-Infrared Stellar Population Studies" (CO).

"Vasto Accretion Meeting 2025", 23-27 Junio, Durham, Reino Unido

Ambrifi A. "Observing and Modelling Low Ionisation Winds in Black Hole X-ray Binaries" (CO).

"European Astronomical Society Annual Meeting 2025 (EAS)", 23-27 Junio, Cork, Irlanda

Comeron S. "The mystery of the massive galaxy without dark matter" (CO).

Comeron S. "Spatially resolved circumnuclear coronal emission in nearby" (P).

Duran E. "Unveiling ISM dynamics with observationally-driven Milky Way simulations" (P)

Esteban C. "Fe/O and Fe/N ratios and dust depletion in star-forming regions" (CO)

Godoy-Rivera, D. (Mathur, S.; Beck, P.; Grossmann, D.; Merc, J.; Escorza, A.) "Kepler meets GaiaDR3: Color-Magnitude Diagram, Binary Systems, and Kinematic Analysis" (CO)

"The Sixth Workshop on Extremely Precise Radial Velocities (EPRV 6)", 30 Junio-3 Julio, Porto, Portugal.

Suárez Mascareño, A. "Diving into the planetary system of Proxima with NIRPS" (CO)

"Binary Stars in the Space Era" 30 Junio-4 Julio, Keele, Reino Unido.

Escorza A. "Stellar interactions, nucleosynthesis, and pulsations as seen by binary-polluted stars" (CO).

Merc J. "Short-term variability of symbiotic binaries observed with TESS" (CO).

Beck P. "Sounding the treasure trove – Asteroseismology of solarlike oscillators and binaries systems" (CO).

Deeg H. "Expanding the Census and the Diversity of Circumbinary Planets with PLATO" (CO).

Abdul-Masih M. "Improving the treatment of stellar distortions in spectroscopic and photometric studies" (CO).

"Detection and Dynamic of Exoplanets (DDE)", 7-11 Julio, Coimbra, Portugal

Geraldía-González S., Lacedelli G. Pallé E., Murgas F. "Precise Mass Refinement of Three Sub-Neptune Systems from Radial Velocity Observations" (P).

"National Astronomy Meeting: #94 : Revealing the Milky Way with Gaia: Focus on Galactic dynamics in the Gaia era and beyond", 7-11 Julio, Durham, Reino Unido

Duran E. "Modelling the Milky Way structure: impact on stellar and gaseous kinematics" (CO)

"TASC9/KASC16: Legacy for future missions: unifying stellar voices across the HR diagram, July 7-11 2025, Vienna/Klosterneuburg, Austria

Beck P., "From the main-sequence to the red-giant branch: Asteroseismology of solar-like oscillators" (IR)

Beck P. "Tales of stellar and binary co-evolution and stellar cannibalism" (P)

Muntean N., Beck P.G., "Optimized 4-Parameter GridSearch routine to estimate the pure dipole g-mode period spacing $\Delta\Pi_1$ " (P)

Grossman. D, Mathur S., Beck P., Godoy-Rivera, D. et al. "Ensemble Boutique modelling of Kepler Giants in the Galactic Halo" (P)

Godoy-Rivera D. (Incluye Mathur S., Beck P.G., Grossmann D.H., Merc J., Escorza A,) "Unlocking Kepler's Full Potential with Gaia DR3: Color-Magnitude Diagram, Binary Systems, and Galactic Kinematics" (CO)

Schimak L.S. Incluye (Beck P.) "The asteroseismic binary KIC 1084173: Constraining RGB mass loss and testing He-burning red clump models " (CO)

Liagre B. (Incluye Mathur S., Godoy-Rivera D., Beck P.G., Grossmann D.H.) "When Stars Speak Too Fast: Probing the First Dredge-Up Beyond the Nyquist Limit" (P)

García R.A. (Incluye Mathur S., Godoy-Rivera D., Masseron T., Beck P.G, Jiménez A., Pérez Hernández F.) "Characterising six solar analogues observed by Kepler, K2, and Hermes " (P)

Amestoy I., Godoy-Rivera D., Beck, P. et al "Finding the Sweet Spot: Modelling of Oscillating Red Giant Binaries" (P)

Santos A.R.G. (Incluye Godoy-Rivera D., Mathur S., Breton S.) "Stalled spin-down and its signature in stellar magnetic activity " (P)

Lund M.N. (Incluye Mathur S.) "Luminaries in the Sky: The TESS Legacy Sample of Bright Stars. I. Asteroseismic Detections in Naked-Eye Main-Sequence and Sub-Giant Solar-like Oscillators" (P)

Panetier E. (Incluye Mathur S.) "Luminaries in the Sky: The TESS Legacy Sample of Bright Stars. II. In depth seismic characterisation of the 34 Luminaries encountering the PLATO field " (P)

"Cosmic Cartography with Roman Symposium: Advances in Galaxy Structures, Distributions, Dark Matter, and Dark Energy", 14-18 Julio, Baltimore, EEUU.

Pérez Sar, M. "A Window into Gravity: Voids × CMB Lensing" (CO, remote participation)

"XXIst Star Formation in Different Environments", 11-15 de Agosto, ICISE, Quy Nhon, Vietnam

Duran E. "Modelling the Milky Way structure: impact on stellar and gaseous kinematics" (CO)

"Solar Polarization Workshop 11 (SPW11)", 8-12 Septiembre, Praga, República Checa.

Collados M. "From TIP@VTT to GRIS@GREGOR: 25+ years of successful nearinfrared spectropolarimetry at the Observatorio del Teide" (CO).

del Pino Alemán T. “Full Stokes inversions with scattering polarization: 1D and 3D” (CO).

Martínez González M.J. “Spectropolarimetry: Deciphering magnetism of the Sun and stars” (CO).

Trujillo Bueno J. “Personal perspective on the past, the present, and the future of solar spectropolarimetry” (CO).

DKIST resolves sub-arcsec photospheric scattering polarization

F. Zeuner¹, E. Alsina Ballester², R. Casini³, D. M. Harrington⁴, T. del Pino Alemán^{2,5}, J. Trujillo Bueno^{2,5,6}, L. Belluzzi^{1,7}

Interpretation of IFU spectropolarimetric observations of solar plage photosphere

G. Liu¹, J. Buttler¹, I. Milic^{1,2,3}, M. van Noort⁴, J. M. Borrero¹, J. S. Castellanos Duran⁴, Christoph Kuckein^{5,6}

Overview of the scientific discoveries of the CLASP missions

R. Ishikawa¹, R. Kano¹, A. Winebarger², D. McKenzie², J. Trujillo Bueno³, Frédéric Auchère⁴, N. Narukage¹, D. Song^{5,1}, T. J. Okamoto¹, L. Rachmeler⁶, Clasp team

SUNRISE III/SCIP observations of three-dimensional magnetic fields in the solar atmosphere

M. Kubo¹ (incluye C. Quintero Noda)

Multi-height Probing of Horizontal Flows in Solar Photosphere Using High-resolution Spectropolarimetry

T. Kostić¹, I. Milić^{1,2,3}, M. Rempel⁴, B. Welsch⁵, M. Kazachenko^{6,7,8}, A. Asensio Ramos^{9,10}, B. Tremblay^{4,11}

3D Radiative Transfer Modeling of the Scattering Polarization in the Wings of Mg II k and h

Andrii V. Sukhorukov^{1,2,3,4}, Javier Trujillo Bueno^{2,3,5}, Luca Belluzzi^{6,7,8}, Jiří Štěpánek⁹

Effects of angle-dependent partial redistribution on linear polarization profiles from a spherically symmetric medium

M. Sampurna¹, H. D. Supriya²

Spectropolarimetric synthesis of forbidden lines in MHD models of coronal bright points

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E. Alsina Ballester^{1,2}

Spectropolarimetry of Coronal Lines: Forward Modeling Tools and Their Applications

H. D. Supriya^{1,2}, T. del Pino Alemán¹, J. Trujillo Bueno^{1,3}, A. de Vicente¹, N. Shchukina^{1,4}, G. del Zanna⁵

The magnetic sensitivity of the Ca ii resonance and subordinate lines
in the solar atmosphere

I. Juanikorena Berasategi^{1,2}, E. Alsina Ballester^{1,2}, T. del Pino Alemán^{1,2}, J.
Trujillo Bueno^{1,2,3}

3D inversion of a solar prominence

A. Vicente Arevalo¹, J. Stepan^[2], T. del Pino Aleman^[3]

A Transformer-Based Approach to Spectropolarimetric Regression

R. Campbell¹, M. Mathioudakis¹, C. Quintero Noda^{2,3}

Neural machine translation for solar atmospheric modeling

A. Asensio Ramos

Spectropolarimetric inversions including physical constraints

A. Pastor Yabar¹, A. B. Grinon Marin¹, A. Asensio Ramos^{2,3}, J. M. Borrero⁴

First results from 3D inversion of the solar chromosphere using CLASP2.1
data

J. Štěpán¹, T. del Pino Alemán², CLASP2. 1 Team

Inversion of the Solar Mg II h and k Lines

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Hao Li¹, Tanausú del Pino Alemán^{2,3}, Javier Trujillo Bueno^{2,3}

COMUNICACIONES A CONGRESOS NACIONALES **(Contributions delivered at Meetings held in Spain)**

2025- CN

"Jornada Ciencia e Industria", 5 Febrero, Alcalá de Henares.

Oscos, A. "IACTEC-Space, the IAC's small satellite program" (CO)

"New Space & Solutions", 17-21 Marzo, Sevilla

Oscos, A. "El papel del New Space en la gestión de catástrofes naturales desde el espacio" (CO).

"VIII JORNADAS RIA-MAD4SPACE 2025", 21-24 Abril, Madrid

Suárez Mascareño, A. "IACSAT-1 - A new infrared planet hunter" (CO)

"CRISOL 25" 12-16 Mayo, Toledo

Ramos Almeida, C. "JWST MIRI reveals the diversity of nuclear mid-infrared spectra of nearby type-2 quasars" (CO)

"XVI Día de Nuestra Ciencia 2025 (DNCT2025)", 6 Junio, La Laguna, Tenerife.

Aguado D. "Metal-poor Stars as Tracers of the Formation and Evolution of the Galactic Halo" (CO).

Amestoy I. "Towards understanding the disparity between dynamic and asteroseismic masses: investigation of an eclipsing binary system hosting an asteroseismic red giant" (CO).

Arjona Gálvez E. "A physically motivated galaxy size definition across different state-of-the-art hydrodynamical simulation" (CO).

Arriero López A.M. "Systematic errors in spectral measurements with the Tenerife Microwave Spectrometer" (CO).

Arroyo Polonio J.M. "Unresolved binaries and their impact on milky way satellite mass estimates" (CO).

Bañares A. "New constraints on the central mass contents of Omega Centauri from combined stellar kinematics and pulsar timing" (CO).

Battaglia G. "The Wide-field Spectroscopic Telescope" (CO).

Barreto M. "EST Telescope Project Status" (CO).

Becerra J. "Exploring the extreme Universe with the ASTRI Mini-Array" (CO).

Carnero Rosell A. "Dark Energy Spectroscopic Instrument DR2 results" (CO).

de Miguel J. "DALI: Scientific Overview and Prototype Status" (CO).

Gallart C. "The first infancy of the Milky Way from Gaia color-magnitude diagram fitting" (CO).

Hatziminaoglou E. "Towards an Atacama Large Aperture Submillimeter Telescope (AtLAST)" (CO).

Hernández González A. "HARMONI at ELT: Testing and Verification of Opto-Mechanical Mounts for HARMONI Pre-Optics 10x10 scale" (CO).

Hoyland R. "FPGA based Data Acquisition System for detectors for CMB and other research fields" (CO).

Licandro J. "Unveiling the Outer Solar System's Protoplanetary Disk Composition via TNOs, Centaurs, and Primitive Asteroids" (CO).

Martínez Sebastián C. "Observational hints of binary interacting products in galactic massive O-type stars with IACOB and GAIA" (CO).

Mata Sánchez D. "Dynamical confirmation of a black hole in the X-ray transient Swift J1727.8-1613" (CO).

Padrón Brito M.A. "A simple broadband focal-plane wavefront sensor based on a short multi-mode fiber" (CO).

Pérez Fournon I. "The Vera Rubin Observatory Legacy Survey of Space and Time: IAC participation and in-kind contribution" (CO).

Quintero Noda C. "Present and future of solar infrared spectropolarimetry" (CO).

Ramos Almeida C. "JWST/MIRI reveals the diversity of mid-infrared spectra of type-2 quasars" (CO).

Ramos Chernenko N. "Galaxy protoclusters in Euclid and beyond." (CO).

Reyes M. "GTC AO Program Status" (CO).

Rodríguez Linares N.A. "EST MCAO testbed: Preliminary MCAO results" (CO).

Rodríguez Ramos L.F. "Quantum communications at IAC" (CO).

Rubiño Martín J.A. "Beyond the Color of the Universe: Spectral Distortions of the cosmic microwave background." (CO).

Ruiz del Pozo A. "Disentangling the inner Galaxy" (CO).

Sen S. "Merging plasmoids in a coronal current sheet" (CO).

Siudek M, "Seeing the Universe Anew: AI Meets Euclid" (CO).

Sowicka P. "The GW Vir instability strip in light of new observations of PG 1159 stars" (CO).

Stefanov A. "A super-Earth in the habitable zone of the GJ 3998 multi-planet system" (CO).

Suárez Mascareño A. "Diving into the planetary system of Proxima with NIRPS" (CO).

Tenegi Sanginés F. "Additive Manufacture at IAC" (CO).

Trujillo I. "New ultra-deep imaging facilities at Teide Observatory: LightBridges telescopes" (CO).

Vanetti E. "Heavy metals in the cosmos: tracing the metal enrichment history with the CMB" (CO).

"IX Reunión Española de Física Solar y Heliosférica" 3-5 Junio. Lluc, Mallorca

Nóbrega D. "Thin coronal jets and plasmoid-mediated reconnection: Insights from Solar Orbiter observations and Bifrost simulations" (CO).

COMUNICACIONES CORTAS, ARTICULOS EN REVISTAS INTERNACIONALES SIN ÁRBITRO

(Short contributions and papers in non-Refereed International Journals)

2025-CR

Martínez Pillet V. "The Astronomical Observatories of the Canary Islands" [2025AAS...24535812M](#)

Núñez, A., Agüeros M., Curtis J., Ospinal C., Covey K., Godoy Rivera D. "A Multi-wavelength Study of Rotation and Magnetic Activity in Young Open Clusters" [2025AAS...24546415N](#)

Burgasser, A. et al. (incluye Lodieu N.) "Arcana of the Ancients: First Results from a JWST Spectral Survey of Metal-poor Ultracool Dwarfs" [2025AAS...24546406B](#)

Dullo B., Knapen J. et al. "LeMMINGS. Multi-wavelength constraints on the co-existence of nuclear star clusters and AGN in nucleated galaxies" [2025AAS...24512902D](#)

López-Corredoira M. "Alternative Cosmologies" [2025JPhCS2948a2001L](#)

Jafarzadeh, S. et al. (Incluye Khomenko E.) "Wave analysis tools" [2025NRvMP...5...21J](#)

ARTICULOS EN REVISTAS NACIONALES (Publications in Spanish Journals).

2025 - PN

Ramos Almeida C. "La alumna que fue de excursión al Roque y se hizo astrónoma". Revista Paralajes La Astrofísica en La Palma, enero 2025.

Esteban C. "La vida secreta de las estrellas". Astronomía, junio 2025

TESIS DOCTORALES (PhD Theses)

2025-T

Sánchez Sierras, Javier (17/01/25) "Accretion and outflows in low mass X-ray binaries: the near-infrared view"

Brauner, Maren (25/03/25) "Chemical analysis and mining of phosphorus-rich stars"

Mallorquín Díaz, Manuel (29/05/25) "Exoplanets in young clusters and moving groups"