

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**
Cruz-Sanchez, N.; Fogantini, F. A.; Saavedra, E. A.; Abaroa, L.; García, F.; Combi, J. A.; Romero, G. E. [2025A&A...693A.122C](#)
- 2.- **A GTC spectroscopic study of three spider pulsar companions: line-based temperatures, a new face-on redback, and improved mass constraints**
Simpson, Jordan A.; Linares, Manuel; Casares, Jorge; Shahbaz, Tariq; Sen, Bidisha; Camilo, Fernando [2025MNRAS.536.2169S](#)
- 3.- **A possible misaligned orbit for the young planet AU Mic c**
Yu, H. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.) [2025MNRAS.536.2046Y](#)
- 4.- **A sub-Earth-mass planet orbiting Barnard's star: No evidence of transits in TESS photometry**
Stefanov, A. K. *et al.* (incluye a González Hernández, J. I.; Suárez Mascareño, A.; Nari, N.; Rebolo, R.; Allende Prieto, C.) [2025A&A...693L...3S](#)
- 5.- **ALESS-JWST: Joint (Sub)kiloparsec JWST and ALMA Imaging of $z \sim 3$ Submillimeter Galaxies Reveals Heavily Obscured Bulge Formation Events**
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- 6.- **Assessing the accuracy of star formation rate measurements by direct star count in molecular clouds**
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- 8.- **Calibrating the Clock of JWST**
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- 11.- **CHEX-MATE: Dynamical masses for a sample of 101 Planck Sunyaev-Zeldovich-selected galaxy clusters**
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- 13.- **Connection between planetary He I $\lambda 10 830 \text{ \AA}$ absorption and extreme-ultraviolet emission of planet-host stars**
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- 19.- **Dark energy survey year 3 results: likelihood-free, simulation-based Λ CDM inference with neural compression of weak-lensing map statistics**
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- 681.- **HiPERCAM and TESS observations of the rapidly rotating M7V star LP 89–187**
Ramsay, Gavin; Gerry Doyle, J.; Littlefair, Stuart; Dhillon, V. S.; Garcia Alvarez, David[2025A&A...703A.122R](#)
- 682.- **Large-scale variability in macroturbulence driven by pulsations in the rapidly rotating massive star ζ Oph from high-cadence ESPRESSO spectroscopy and TESS photometry**
Kalita, A. J.; Bowman, D. M.; Abdul-Masih, M.; Simón-Díaz, S.[2025A&A...703A...2K](#)
- 683.- **Low-Mass Companions to Nine Stars**
Niedzielski, A.; Jaros, R.; Srivastava, D.; Adamów, M.; Wolszczan, A.; Villaver, E.; Maciejewski, G.; Deka-Szymankiewicz, B.[2025AcA....75...63N](#)

- 684.- **Mapping the Milky Way with Gaia BP/RP Spectra. III. The First Medium-resolution Follow-up Spectroscopy of Metal-poor Stars**
Ye, Xianhao *et al.* (incluye a Aguado, David S.; Allende Prieto, Carlos; Wu, Wenbo; González Hernández, Jonay I.; Rebolo, Rafael; Liu, Shuai)[2025AJ....170..251Y](#)
- 685.- **Multiwavelength observations of a new black-widow millisecond pulsar PSR J1544-2555**
Belmonte Díaz, S. *et al.* (incluye a Dhillon, V. S.)[2025MNRAS.543.3019B](#)
- 686.- **Neural translation for Stokes inversion and synthesis**
Asensio Ramos, A.; de la Cruz Rodríguez, J.[2025A&A...703A..55A](#)
- 687.- **Nitrogen-bearing Species on Trans-Neptunian Objects Revealed by JWST/DiSCo-TNOs**
Cryan, S. *et al.* (incluye a Licandro, J.)[2025ApJ...993..188C](#)
- 688.- **Observation of undepleted phosphine in the atmosphere of a low-temperature brown dwarf**
Burgasser, Adam J. *et al.* (incluye a Lodieu, Nicolas)[2025Sci...390..697B](#)
- 689.- **On the computational feasibility of Bayesian end-to-end analysis of LiteBIRD simulations within Cosmoglobe**
Aurvik, R. *et al.* (incluye a Adak, D.; Génova-Santos, R. T.)[2025JCAP...11..041A](#)
- 690.- **Optical and near-infrared polarization of the black hole X-ray binary A0620-00 in quiescence**
Kravtsov, Vadim *et al.* (incluye a Shahbaz, Tariq; Torres, Manuel A. P.)[2025A&A...703A..14K](#)
- 691.- **Planetary nebula evolution for single stellar models. The formation of neutral spikes**
García-Segura, Guillermo; Manchado, Arturo; Toalá, Jesús A.; Guerrero, Martín A.; Castro-Tirado, Alberto J.[2025MNRAS.543.3867G](#)
- 692.- **SDSS-V black hole mapper: the index diagram as a tool to disentangle the influence of the host galaxy in quasar spectra**
Negrete, C. A. *et al.* (incluye a Sánchez, S. F.)[2025MNRAS.543.4272N](#)
- 693.- **SDSS-V LVM: Detectability of Wolf-Rayet stars and their He II ionizing flux in low-metallicity environments: I. The weak-lined, early-type WN3 stars in the SMC**
González-Torà, G. *et al.* (incluye a Sanchez, S. F.)[2025A&A...703L..11G](#)
- 694.- **SN 2024bfu, SN 2025qe, and the early light curves of type Iax supernovae**
Magee, M. R. *et al.* (incluye a Dhillon, V. S.; Casares Velázquez, J.)[2025MNRAS.543.3731M](#)
- 695.- **TESS Subgiant and Lower-red-giant Asteroseismology in the Continuous Viewing Zones**
Grusnis, Sophia; Tayar, Jamie; Godoy-Rivera, Diego[2025ApJ...993...96G](#)
- 696.- **Testing the performance of cross-correlation techniques to search for molecular features in JWST NIRSpec G395H observations of transiting exoplanets**
Esparza-Borges, Emma *et al.*[2025MNRAS.543.3456E](#)
- 697.- **The galaxy bias profile of cosmic voids**
Montero-Dorta, Antonio D.; Balaguera-Antolínez, Andrés; Alfaro, Ignacio G.; Ruiz, Andrés N.; Sheth, Ravi K.; Rodríguez, Facundo; Galárraga-Espinosa, Daniela; Soto-Suárez, Constanza A.; Quiroz, Ignacio; Fernández-Sánchez, Iker[2025A&A...703A..58M](#)
- 698.- **The IACOB project: XV. Updated calibrations of fundamental parameters of Galactic O-type stars**
Holgado, G.; Simón-Díaz, S.; Herrero, A.[2025A&A...703A.175H](#)
- 699.- **The origin of the intracluster light in The Three Hundred simulations**
Contreras-Santos, A. *et al.* (incluye a Alonso Asensio, I.; Dalla Vecchia, C.)[2025A&A...703A..85C](#)
- 700.- **The Polar Orbit of TOI-2374 b, a Planet in the Neptunian Ridge**
Yee, Samuel W. *et al.* (incluye a Barkaoui, Khalid; Narita, Norio; Fukui, Akihiko)[2025AJ....170..275Y](#)

- 701.- V Sge: supersoft source or exotic hot binary? – I. An X-Shooter campaign in the high state**
Hakala, Pasi; Charles, Phil; **Rodríguez-Gil, Pablo**[2025MNRAS.543.2058H](#)
- 702.- VHE γ -ray observations of bright BL Lacs with the Large-Sized Telescope prototype (LST-1) of the CTAO**
Abe, K. *et al.* (incluye a **Arnesen, T. T. H.**; **Barrios Jiménez, L.**; **Becerra González, J.**; **Di Marco, G.**; **Frías García-Lago, F.**; **García López, R.**; **Herrera Llorente, J.**; **López-Oramas, A.**; **Molero Gonzalez, M.**; **Molina, E.**; **Nievas Rosillo, M.**; **Vázquez Acosta, M.**)[2025MNRAS.544..669A](#)
- 703.- Witnessing the Violent, Merger-driven Formation of an Extremely Massive Galaxy 1.7 Gyr after the Big Bang**
Pitchford, L. K.; Cairns, J.; Farrah, D.; Clements, D. L.; **Hatziminaoglou, E.**; **Pérez-Fournon, I.**; Wang, L.[2025ApJ...994...57P](#)
- 704.- Discovery and analysis of afterglows from poorly localized GRBs with the Gravitational-wave Optical Transient Observer (GOTO) All-sky Survey**
Kumar, Amit *et al.* (incluye a **Dhillon, V. S.**; **Casares, J.**; **Lombardi, G.**)[2025MNRAS.544.1541K](#)
- 705.- Identifying Close-in Jupiters that Arrived via Disk Migration: Evidence of Primordial Alignment, Preference of Nearby Companions and Hint of Runaway Migration**
Kawai, Yugo; **Fukui, Akihiko**; Watanabe, Noriharu; Fukazawa, Sho; **Narita, Norio**[2025AJ....170..299K](#)
- 706.- UNIONS: The Ultraviolet Near-infrared Optical Northern Survey**
Gwyn, Stephen *et al.* (incluye a **Thomas, G. F.**)[2025AJ....170..324G](#)
- 707.- Landscape, path and liturgy in themyth of the hero of Iltiraka**
Ruiz, Arturo; Molinos, Manuel; **Esteban, Cesar**; Yanes, Miguel; Lechuga, Miguel Angel[10.5209/cmpl.102416](#)
- 708.- Sensitized Radiation-Induced Polymerization of Indene with 1,1,2,2-Tetrachloroethane**
R Barzaga; **D A García-Hernández**; **A Manchado**; **I Di Sarcina**; **A Cemmi**; **F Cataldo**[10.3390/polym17111550](#)

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.

García-Hernández, D. A. "NanoSpace and the power of networking to understand complex carbon chemistry around evolved stars" en "3rd COST NanoSpace Joint Scientific Meeting", 13-16 Mayo 2025, Kaunas, Lituania

Beck P. "From the main-sequence to the red-giant branch: Asteroseismology of solar-like oscillators" en "TASC9/KASC16: Legacy for future missions: unifying stellar voices across the HR diagram", 7-11 Julio, Vienna/Klosterneuburg, Austria

Eff-Darwich A. & Castro J. "Introduction to the Terrain and Vulcanology of Tenerife" en "GaiaAlerts2025: 16th Gaia Science Alerts Workshop and ACME Time-Domain Multimessenger Astronomy Workshop", 29 Septiembre-3 Octubre, La Laguna, Tenerife.

Belmonte J.A. "Who were the Guanches? The scientific quest for the ancient Canarians" en "GaiaAlerts2025: 16th Gaia Science Alerts Workshop and ACME Time-Domain Multimessenger Astronomy Workshop", 29 Septiembre-3 Octubre, La Laguna, Tenerife.

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, Hirscheegg, 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" (P)

"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).

Cezar P.H. "Star formation and AGN triggering in Arp-Madore interacting galaxies" (CO).

de Miguel J. "Millimeter-wave probes of axion dark matter with neutron stars" (CO).

Hatziminaoglou E. "An introduction to ALMA" (IT)

Hatziminaoglou E. "The ALMA Wideband Sensitivity Upgrade" (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).

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

Ambrifi 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).

Lacedelli G., Pallé E., "THIRSTEE: testing the water world hypothesis on the small transiting exoplanet population" (CO).

"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)

Herrero A. "Quantitative Spectroscopy of OB-type stars" (Keynote talk)

Martínez Sebastian C. "Der bestirnte Himmel über mir: Observational hints of binary interacting products in Galactic massive O-type stars with IACOB and Gaia" (CO)

"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)

"3rd COST NanoSpace Joint Scientific Meeting", 13-16 Mayo 2025, Kaunas, Lituania

Barzaga, R., Kerkeni, B., García-Hernández, D. A. et al. "Peculiarities in the infrared emission of multiple PAH-C60 adducts" (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 Junio, 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).

"Dancing in the Dark: When Galaxies Shape Galaxies, 16-20 junio, Sexten, Italia

Pinna, F. "The role of galaxy mergers in the emergence of thick and thin disks: observations vs simulations" (CO)

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

Ambriani 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 Seyfert galaxies" (P).

Deeg H.J. "Advancing Circumbinary Planet Detection with the PLATO Space Mission" (CO)

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)

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

Lacedelli G., Pallé E. "THIRSTEE: testing the water world hypothesis on the small transiting exoplanet population" (P).

"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).

"Semaine de l'Astrophysique Française", 1-4 Julio, Toulouse, Francia

Amestoy I., (Incluye Godoy-Rivera D., Beck P. G., Abdul-Masih M., Mathur S., Escorza A., Masseron T., Merc J.): "Finding the Sweet Spot: Modeling of Oscillating Red Giant Binaries" (P)

Borg L. (Incluye Mathur S., Beck P. G., Godoy-Rivera D.): "Enhanced Asteroseismic Characterization of Red Giants with PyTadacs-s: Application to TESS Light Curves" (P)

Palakkatharappil D. B., (Incluye Mathur S., Beck P. G., Godoy-Rivera D.): "Seismic and Rotational Characterization of Stars in PLATO Observation Fields using Multi-sector TESS Data" (P)

"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).

Lacedelli G., Pallé E., "THIRSTEE: testing the water world hypothesis on the small transiting exoplanet population" (CO).

"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”, 7-11 Julio, Vienna/Klosterneuburg, Austria

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)

“Galactic ecosystems under the microscope: lessons from highly-resolved studies”, 7-11 julio, Garching, Alemania

Pinna, F.: "Spatially resolved stellar populations of thick disks: Insights from the GECKOS survey" (CO)

"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)

“The Astroparticle Physics Conference (ICRC 2025)”, 14-24 Julio, Ginebra, Suiza

Barrios Jiménez L. "Results of the historical observations of the microquasar Cygnus X-3 with the MAGIC telescopes." (CO).

Molero M. "Measurement of the Proton Spectrum with the MAGIC Telescopes" (CO).

Nievas M. "One Code to Fit Them All: Forward-Folding AGN Spectra Over 11 Energy Decades with Gammapy" (CO)

“COST NanoSpace AI in Astrochemistry Training School “, 5-8 Agosto, Helsinki, Finlandia

Huertas-Roldán, T. "Identifying Emission Lines of Undetected Molecules" (P)

Barzaga, R., Kerkeni, B., García-Hernández, D. A. et al. "New insights in the 3.3-3.4 μm astronomical features: C60-PAHs adducts" (P)

Brauner, M., García-Hernández, D. A., Masseron, T. "Exploring Stellar Outliers Through Unsupervised Machine Learning Techniques" (P)

"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)

“Brown Dwarfs Keep their Cool: 30 Years of Substellar Science”, 1-5 Septiembre, La Gomera.

Benito Castaño M. "Brown dwarfs as probes of the particle nature of dark matter: a provocative exploration" (CO).

Domínguez-Tagle C. "Spectroscopic search, classification and analysis of ultracool dwarfs in Euclid Q1 data" (CO).

Lodieu N. "Defining Physical Parameter Scales for Metal-Poor M Dwarfs Using X-Shooter Spectroscopy" (CO).

Lodieu N. "Discoveries of brown dwarf in large-scale surveys" (CO).

Martín E.L. "Brown dwarfs with the Euclid space misión" (CO).

Muñoz torres S. "Characterizing the First Field Brown Dwarf Binary Discovered with Euclid" (CO).

Rebolo R. "Discovery of Brown Dwarfs"

Sánchez-Béjar V. "Complex Periodic Variables: an approach for planetary formation at the substellar frontier" (CO)

Sánchez-Béjar V. "High-resolution and high-contrast studies of substellar companions" (CO).

Sedighi N. "Unveiling Ultracool Dwarfs with Euclid and ATMO" (CO).

Suárez Masacarteño A. "DUNE: A new infrared exoplanet hunter" (CO).

Tsilia S. "Probing the ultracool dwarf population around the Horsehead nebula" (CO).

Zerjal M. "Photometric Ultracool dwarf catalogue in Euclid's Q1 data reléase" (CO).

Zhang J. "Detection of methane and metallicity constraints on the nearest extreme T subdwarf" (CO).

Bridging scales: star clusters and their host galaxies from the Local to the high-z Universe, 1-5 septiembre, Matera, Italia

Pinna, F. "M74: a fossil nuclear star cluster at the center of a star-forming galaxy" (CO)

“The Golden Age of Cataclysmic Variables and Related Objects VII”, 1-6 Septiembre, Palermo, Italia

Godoy-Rivera D. (Incluye Mayhur S., Beck P. G., Grossmann D. H., Merc J., Escorza A.): “Kepler meets Gaia DR3: Homogeneous extinction-corrected color-magnitude diagram and binary classification” (IT)

“Open SkAI 2025”, 2-5 Septiembre 2025, Chicago, Illinois, EEUU.

Dunn M. “Inferring the 3D Shapes of Euclid Q1 Galaxies” (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” (IT).

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

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

F. Zeuner, E. Alsina Ballester, R. Casini, D. M. Harrington, T. del Pino Alemán, J. Trujillo Bueno, L. Belluzzi “DKIST resolves sub-arcsec photospheric scattering polarization” (CO)

G. Liu, J. Buttler, I. Milic, M. van Noort, J. M. Borrero, J. S. Castellanos Duran, C. Kuckein “Interpretation of IFU spectropolarimetric observations of solar plage photosphere” (CO)

R. Ishikawa, R. Kano, A. Winebarger, D. McKenzie, J. Trujillo Bueno, Frederic Auchpère, N. Narukage, D. Song, T. J. Okamoto, L. Rachmeler and Clasp team “Overview of the scientific discoveries of the CLASP missions” (IT).

M. Kubo (Incluye C. Quintero Noda) “SUNRISE III/SCIP observations of three-dimensional magnetic fields in the solar atmosphere” (CO)

T. Kostic, I. Milic, M. Rempel, B. Welsch, M. Kazachenko, A. Ramos, B. Tremblay “Multi-height Probing of Horizontal Flows in Solar Photosphere Using High-resolution Spectropolarimetry” (CO).

A.V. Sukhorukov, J. Trujillo Bueno, L. Belluzzi, J. Stepan “3D Radiative Transfer Modeling of the Scattering Polarization in the Wings of Mg II k and h” (CO).

M. Sampoorana, H. D. Supriya “Effects of angle-dependent partial redistribution on linear polarization profiles from a spherically symmetric medium” (CO)

E. Alsina Ballester “Spectropolarimetric synthesis of forbidden lines in MHD models of coronal bright points” (CO)

H. D. Supriya, T. del Pino Alemán, J. Trujillo Bueno, A. de Vicente, N. Shchukina, G. del Zanna “Spectropolarimetry of Coronal Lines: Forward Modeling Tools and Their Applications” (IT).

I. Juanikorena Berasategi, E. Alsina Ballester, T. del Pino Alemán, J. Trujillo Bueno “The magnetic sensitivity of the Ca II resonance and subordinate lines in the solar atmosphere” (CO).

V. Arevalo, J. Stepan, T. del Pino Aleman “3D inversion of a solar prominence” (CO)

R. Campbell, M. Mathioudakis, C. Quintero Noda “A Transformer-Based Approach to Spectropolarimetric Regression” (CO)

A Asensio Ramos “Neural machine translation for solar atmospheric modeling” (CO).

P. Yabar, A. B. Griñon Marin, A. Asensio Ramos, J. M. Borrero "Spectropolarimetric inversions including physical constraints" (CO).

J. Stepan, T. del Pino Alemán and CLASP2. 1 Team "First results from 3D inversion of the solar chromosphere using CLASP2.1 data" (P).

H. Li, T. del Pino Alemán, J. Trujillo Bueno "Inversion of the Solar Mg II h and k Lines" (P).

"China-Europe Solar Physics Meetings (CESPM)", 15-19 Septiembre, Peking, China

Nóbrega-Siverio D. "Deciphering solar coronal heating: Deciphering Coronal Bright Points." (IT)

"11th Microquasar Workshop" 15-19 Septiembre 2025, Cefalú, Italia.

Ambriani A. "Modelling wind signatures in the optical and infrared spectrum of XRBs" (CO)

Armas Padilla, M. "A Self-Shadowing Black Hole Accretion Disc during a Soft State Decay" (CO)

Muñoz-Darias, T. "Towards a complete view of accretion disc winds" (IT)

"20th Patras Workshop on Axions, WIMPs and WISPs", 22-26 Septiembre, Tenerife

Hatziminaoglou E. "Millimeter-wave probes of axion dark matter with neutron stars" (CO)

"Asymmetrical Post-main-sequence Nebulae 9. The Art of Stellar Winds Sculpting conference", 22-26 Septiembre, Granada.

Cami, J. et al. (incluyendo García-Hernández, D. A. y Manchado, A.) "The Art of Shaping Carbon: Tc 1 as a Laboratory for Fullerene Chemistry" (P)

Giese, M. M. et al. (incluyendo García-Hernández, D. A. y Manchado, A.) "Redefining our view of fullerenes in Tc 1 using JWST" (CO)

Van Schuylenbergh, S. et al. (incluyendo García-Hernández, D. A. y Manchado, A.) "JWST Observations of Tc 1: Tracing Fullerene-Linked Dust Variability" (P)

Tosi, S. et al. (incluyendo García-Hernández, D. A.) "From AGB to planetary nebulae: wind evolution of low- and intermediate-mass stars" (IT)

Huertas-Roldán, T., Alcolea, J., García-Hernández, D. A. et al. (incluyendo Manchado, A.) "Deep mm survey of RRLs towards C-rich planetary nebulae" (CO)

Manchado, A. et al. "On the morphology of proto-planetary nebulae" (CO)

"Flux Emergence Workshop (FEW)", 29 Septiembre-3 Octubre, San Diego, EEUU.

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

"1st UNDARK workshop on "Astrophysical Probes of Dark Sectors with Radiowave Observations", 29 Septiembre-

3 Octubre, La Laguna, Tenerife.

de Miguel J. "Reassessing graviton detectability in light of high-frequency gravitational wave searches" (CO).

Fasano A. "The GroundBIRD experiment: status and perspectives" (CO).

Hatziminaoglou E. "ALMA and its role in the search of dark matter" (CO).

Hernández-Monteagudo C. "On the extra-galactic signal present in QUIJOTE intensity maps" (CO).

Rubiño Martín J.A., Arriero-López A. "The Tenerife Microwave Spectrometer (TMS): absolute spectral measurements in the 10–20GHz range" (CO).

Zatini R. "Are low-frequency radio telescopes sensitive to light dark matter?" (CO).

"GaiaAlerts2025: 16th Gaia Science Alerts Workshop and ACME Time-Domain Multimessenger Astronomy Workshop", 29 Septiembre-3 Octubre, La Laguna, Tenerife.

Beck P. "Tales of stellar and binary co-evolution, told by solar-like oscillations" (CO).

Beck P. Pallé P.L. "SONG-Stellar Observation Network Group" (CO).

Escorza A. "Time domain beyond Gaia's reach" (CO).

Godoy-Rivera D. "Clues to Anomalous Stellar Rotation from Gaia's Chromatic Time-Domain Photometry" (CO).

Kuhn J. & LIOM team, "Time-domain science with big telescopes" (IT).

López-Oramas A. "Transient TeV astronomy with Cherenkov telescopes in the Canary Islands" (CO).

Lu Y. et al (incluye Beck P.), "Calibrating asteroseismology scaling relation by interferometric observation on Gaia binaries" (CO)

Merc J. et al. (Incluye Beck P.) "Monitoring T CrB with the BHTOM telescope network" (P)

"IAUS403: The Hidden Beauty of the Galactic Outskirts", 6-10 Octubre, Córdoba.

Di Cintio A. "Unveiling the Dark Matter Content and Star Formation Histories of Local Group Galaxies: A Synergy of Simulations and Deep Learning" (IT)

Trujillo I. "Adding LIGHTS to the discovery of unusual tidal streams in Milky Way-like galaxies beyond the Local Group" (CO).

"The Arab Conference on Astronomy and Geophysics (ACAG-9)" 13-16 Octubre, Cairo, Egypto

Hatziminaoglou E. "Probing the Temporal and Spectral Properties of Active Galactic Nuclei" (IT)

"Binary Workshop 2025: Hunting for exotic populations of binary stars", 14-16 Octubre, Florencia, Italia

P.G.Beck, A.Escorza "Solar-like stars in binary systems: before and after interaction" (IT)

"Joint MUSE/IRIS science team meeting", 27-30 Octubre, Mountain View, EEUU.

Nóbrega-Siverio, D. "Deciphering Solar Coronal Heating: 3D Reconnection in Coronal Bright Points" (IT)

"TeV Particle Astrophysics 2025 (TeVPa2025)", 3-7 Noviembre, Valencia.

Barrios-Jiménez, L. "Results of the long-term campaign on Cygnus X-3 with the MAGIC telescopes" (CO)

Di Cintio A. "Cosmological dark matter simulations" (CO)

López Oramas A. "Galactic Sources" (IT)

López-Oramas A. "Galactic sources" (CO)

Molero M. "Measurement of the Cosmic-Ray Proton Spectrum with MAGIC" (CO).

Molina E. "The ASTRI Mini-Array: Overview and first results" (CO).

"Photonic E-MARCOT: A new concept for a large-aperture telescope. Design, science cases, and impact", 4-5 Noviembre, Granada

Lodieu N. "The ExoLife Finder telescope and the status of its prototype" (IT).

"Whole Sun Nice Meeting", 7-11 Noviembre, Niza, Francia

Nóbrega-Siverio, D. "Deciphering Solar Coronal Heating: 3D Reconnection in Coronal Bright Points" (CO)

"Why Galaxies care about AGB stars V: 3D winds in the cosmic matter cycle", 17-21 Noviembre, Santiago de Chile

Escorza A. "Why AGB stars care about their binary their interaction products?" (CO).

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)

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

Alsina Ballester, E. "Spectropolarimetric synthesis of forbidden lines in MHD models of coronal bright points" (CO).

Trelles-Arjona J.C. "Upgrading GRIS: New Capabilities for High-Sensitivity Solar Spectropolarimetry" (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-Siverio 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".

Golini, Giulia (25/07/25) "The Low Surface Brightness Universe: from faint dwarfs to galaxy edges".

Angeloudi, Eirini (24/11/25) "Unveiling the Mass Assembly of Galaxies Coupling Simulation-Based Inference and Integral Field Spectroscopy"