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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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- 3.- **A possible misaligned orbit for the young planet AU Mic c**
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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 $\lambda 10\,830\text{ Å}$ absorption and extreme-ultraviolet emission of planet-host stars**
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- 487.- Mapping the Milky Way with Gaia Bp/Rp spectra: II. The inner stellar halo traced by a large sample of blue horizontal branch stars**
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- 488.- 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](#)
- 489.- Nickel- and iron-rich clumps in planetary nebulae: New discoveries and emission-line diagnostics**
Bouvis, K.; Akas, S.; Monteiro, H.; Konstantinou, L.; Boumis, P.; García-Rojas, J.; Gonçalves, D. R.; Aleman, I.; Monreal-Ibero, A.; Cami, J. [2025A&A...700A.155B](#)
- 490.- NIKA2 Cosmological Legacy Survey: Blind detection of galaxy clusters in the COSMOS field via the Sunyaev-Zel'dovich effect**
Chéroutier, D. *et al.* (incluye a Barrena, R.) [2025A&A...700A..30C](#)
- 491.- NIRPS detection of delayed atmospheric escape from the warm and misaligned Saturn-mass exoplanet WASP-69 b**
Allart, Romain *et al.* (incluye a González Hernández, Jonay I.; Rebolo, Rafael; Suárez Mascareño, Alejandro; Gracia Témich, Félix; Nari, Nicola; Rasilla, José Luis; Stefanov, Atanas K.) [2025A&A...700A...7A](#)
- 492.- NIRPS joining HARPS at ESO 3.6 m: On-sky performance and science objectives**
Bouchy, François *et al.* (incluye a Rebolo, Rafael; González Hernández, Jonay I.; Rasilla, José Luis; Suárez Mascareño, Alejandro; Gracia Témich, Félix; Nari, Nicola; Passegger, Vera M.; Stefanov, Atanas K.) [2025A&A...700A..10B](#)
- 493.- Puzzling radial gradients of K-band absorption features in the giant elliptical galaxy M87**
La Barbera, F. *et al.* (incluye a Vazdekis, A.; Eftekhari, E.; Beasley, M. A.) [2025A&A...700A..64L](#)
- 494.- Puzzling Variation of Gamma Rays from the Sun over the Solar Cycle Revealed with Fermi-LAT**
Acharyya, A. *et al.* (incluye a Becerra Gonzalez, J.) [2025ApJ...989L..16A](#)
- 495.- Red supergiant stars in binary systems: II. Confirmation of B-type companions of red supergiants in the Small Magellanic Cloud using Hubble ultraviolet spectroscopy**
Patrick, L. R.; Lennon, D. J.; Schootemeijer, A.; Bianchi, L.; Negueruela, I.; Langer, N.; Thilker, D.; Dorda, R. [2025A&A...700A..36P](#)
- 496.- Roadmap on carbon molecular nanostructures in space**
Hansen, Klavs *et al.* (incluye a García-Hernández, D. A.; Manchado, A.; Gómez-Muñoz, M. A.; Barzaga, R.; Huertas-Roldán, T.; Villaver, E.) [2025EPJD...79...94H](#)
- 497.- Selection function of clusters in Dark Energy Survey year 3 data from cross-matching with South Pole Telescope detections**
Grandis, S. *et al.* (incluye a Carnero Rosell, A.) [2025A&A...700A..15G](#)
- 498.- Spectropolarimetric synthesis of forbidden lines in magnetohydrodynamic models of coronal bright points**
Alsina Ballester, E.; Nóbrega-Siverio, D.; Moreno-Insertis, F.; Supriya, H. D. [2025A&A...700A.204A](#)

- 499.- Structures and Properties of Fan-Shaped Jets: H α Dark Blobs and Transparent Regions**
Yang, Heesu; Madjarska, Maria S.; Lim, Eun-Kyung; Nóbrega-Siverio, Daniel; Galsgaard, Klaus [2025JKAS...58..185Y](#)
- 500.- Survey of Surveys: II. Stellar parameters for 23 million stars**
Turchi, A. *et al.* (incluye a Thomas, G.) [2025A&A...700A.195T](#)
- 501.- The DBL Survey II: towards a mass–period distribution of double white dwarf binaries**
Munday, James *et al.* (incluye a Jones, David) [2025MNRAS.541.3494M](#)
- 502.- The effect of local magnetic fields in quiet regions of stellar atmospheres simulated with MANCHA**
Perdomo García, A.; Vitas, N.; Khomenko, E.; Collados, M. [2025A&A...700A.191P](#)
- 503.- The ESPRESSO transmission spectrum of HD189733 b: Extracting the planetary sodium and lithium signatures amid stellar contamination**
Mounzer, D. *et al.* (incluye a Carleo, I.; González Hernández, J. I.; Pallé, E.; Suárez Mascareño, A.) [2025A&A...700A..41M](#)
- 504.- 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](#)
- 505.- The Gondola for the SUNRISE III Balloon-Borne Solar Observatory**
Bernasconi, Pietro *et al.* (incluye a Martínez Pillet, Valentín) [2025SoPh..300..112B](#)
- 506.- The impact of rotation on the stochastic excitation of stellar acoustic modes in solar-like pulsators**
Bessila, L.; Deckx van Ruys, A.; Buriasco, V.; Mathis, S.; Bugnet, L.; García, R. A.; Mathur, S. [2025A&A...700A..25B](#)
- 507.- The intracluster light as an estimator of the cluster mass profile**
Alonso Asensio, I.; Contreras-Santos, A. [2025A&A...700A.205A](#)
- 508.- The KELT-7b atmospheric thermal-inversion conundrum revisited with CHEOPS, TESS, and additional data**
Garai, Z. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.) [2025A&A...700A...5G](#)
- 509.- The O Vz stars in NGC 346: Distribution, stellar parameters, and insights into low-metallicity effects**
Arango, L.; Arias, J. I.; Holgado, G.; Ferrero, G.; Putkuri, C.; Morrell, N. I. [2025A&A...700A..44A](#)
- 510.- The orbit of WASP-4 b is in decay**
Baştürk, Ö. *et al.* (incluye a Barkaoui, K.) [2025MNRAS.541..714B](#)
- 511.- Three hot Jupiters transiting K-dwarfs with significant heavy element masses**
Frensch, Y. G. C. *et al.* (incluye a Barkaoui, K.; Murgas, F.; Pallé, E.) [2025A&A...700A.118F](#)
- 512.- Tidal Debris Candidates from the ω Centauri Accretion Event and Its Role Building Up the Milky Way Halo**
Anguiano, Borja *et al.* (incluye a Allende Prieto, Carlos) [2025ApJ...989...12A](#)
- 513.- TOI-1846 b: a super-Earth in the radius valley orbiting a nearby M dwarf**
Soubkiou, Abderahmane *et al.* (incluye a Barkaoui, Khalid; Pallé, Enric; Fukui, Akihiko; Narita, Norio; Murgas, Felipe; Esparza-Borges, Emma; Parviainen, Hannu) [2025MNRAS.541.3249S](#)
- 514.- Variable stars in Local Group galaxies: VII. New insights into the Leo II dSph**
Monelli, M. *et al.* (incluye a Pérez-García, P. J.; Gallart, C.) [2025A&A...700A.201M](#)
- 515.- An Aligned Sub-Neptune Revealed with MAROON-X and a Tendency Toward Alignment for Small Planets**
Polanski, Alex S. *et al.* (incluye a Fukui, Akihiko; Narita, Norio) [2025AJ....170..182P](#)

- 516.- Benchmark brown dwarfs – I. A blue M2 + T5 wide binary and a probable young [M4 + M4] + [T7 + T8] hierarchical quadruple**
Zhang, Z. H. *et al.* (incluye a Lodieu, N.)[2025MNRAS.542..656Z](#)
- 517.- Caveats about measuring carbon abundances in stars using the CH band**
Santos-Peral, P.; Sánchez-Blázquez, P.; Vazdekis, A.; Palicio, P. A.; Knowles, A. T.; Recio-Blanco, A.; Allende Prieto, C.[2025A&A...701A..95S](#)
- 518.- Chemical abundances and Doppler imaging of the Ap Si/He-wk star HD 100357**
Dileep, Athul *et al.* (incluye a Barkaoui, Khalid)[2025MNRAS.542..747D](#)
- 519.- Deep Extragalactic Visible Legacy Survey (DEVILS): evolution of the morphology–density relation**
Davies, L. J. M.; Doan, J.; Bellstedt, S.; Robotham, A. S. G.; Phillipps, S.; Wolf, C.; Meyer, M.; Siudek, M.; Driver, S. P.[2025MNRAS.542.2128D](#)
- 520.- DESI 2024 V: Full-Shape galaxy clustering from galaxies and quasars**
Adame, A. G. *et al.* (incluye a Carnero Rosell, A.)[2025JCAP...09..008A](#)
- 521.- easyspec: An Open-source Python Package for Long-slit Spectroscopy**
de Menezes, Ranieri; Massaro, Francesco; Negro, Michela; Raiteri, Claudia M.; Peña-Herazo, Harold; Acosta-Pulido, Jose A.[2025AJ....170..166D](#)
- 522.- EP241021a: A Months-duration X-Ray Transient with Luminous Optical and Radio Emission**
Shu, Xinwen *et al.* (incluye a Poidevin, Frédéric; Aguado, David S.; López-Oramas, Alicia; López Fernández-Nespral, David; Pérez-Fournon, Ismael)[2025ApJ...990L..29S](#)
- 523.- Euclid: Early Release Observations of ram-pressure stripping in the Perseus cluster: Detection of parsec-scale star formation within the low surface brightness stripped tails of UGC 2665 and MCG +07-07-070**
George, K. *et al.* (incluye a Colodro-Conde, C.; Rebolo, R.)[2025A&A...701A..40G](#)
- 524.- Euclid: the potential of slitless infrared spectroscopy: a $z = 5.4$ quasar and new ultracool dwarfs**
Bañados, E. *et al.* (incluye a Martín, E. L.; Domínguez-Tagle, C.; Dannerbauer, H.; Sedighi, N.; Siudek, M.; Zhang, J. -Y.; Colodro-Conde, C.; Rebolo, R.)[2025MNRAS.542.1088B](#)
- 525.- Exploring the interaction between the MW and LMC with a large sample of blue horizontal branch stars from the DESI survey**
Byström, Amanda *et al.* (incluye a Thomas, Guillaume; Allende Prieto, Carlos)[2025MNRAS.542..560B](#)
- 526.- Fuzzy dark matter fails to explain dark matter cores**
Benito, María; Hütsi, Gert; Mürsepp, Kristjan; Sánchez Almeida, Jorge; Urrutia, Juan; Vaskonen, Ville; Veermäe, Hardi[2025PDU....4902010B](#)
- 527.- High-resolution Optical IFU Spectroscopy of the Complex Galaxy Merger II Zw 096**
Riesco, Clemente *et al.* (incluye a Ramos Almeida, Cristina)[2025ApJ...990..136R](#)
- 528.- Kinematic misalignment as a driver of black hole activity in galaxies with external interactions**
Raimundo, Sandra I.; Riffel, Rogerio; Li, Song-lin; Ramos Almeida, Cristina; Rembold, Sandro; Riffel, Rogemar A.; Storchi-Bergmann, Thaisa; Vestergaard, Marianne; Tous, José L.[2025MNRAS.542L.103R](#)
- 529.- NGC 663 as a laboratory for massive star evolution**
Marco, Amparo; Negueruela, Ignacio; Castro, Norberto; Simón-Díaz, Sergio[2025MNRAS.542..703M](#)
- 530.- PHANGS-HST Catalogs for ~100,000 Star Clusters and Compact Associations in 38 Galaxies. II. Physical Properties from Decision-tree-based Spectral Energy Distribution Fitting of NUV-U-B-V-I Photometry with Categorical Priors Set by H α Emission, Cluster Morphology, and Other Auxiliary Information**
Thilker, David A. *et al.* (incluye a Pinna, Francesca)[2025ApJS..280....1T](#)

- 531.- Polarized, variable radio emission from the scallop-shell binary system DG CVn**
Kaur, Simranpreet *et al.* (incluye a Béjar, Víctor J. S.)[2025A&A...701A..69K](#)
- 532.- Probing Thin Winds in Massive OB Stars of the SMC with JWST/NIRSPEC Br α Spectroscopy**
García, Miriam *et al.* (incluye a Lennon, Daniel J.; Herrero, Artemio; Simón-Díaz, Sergio)[2025ApJ...990L..23G](#)
- 533.- Solvent-Free Solid State Dechlorination of C 60 Cl 6 and C 60 Cl 12 with Cesium Iodide**
Cataldo, Silvia; Barzaga, Ransel; García-Hernández, D. Aníbal; Manchado, Arturo; Cataldo, Franco[2025FNCN...33..910C](#)
- 534.- SpecDis: Value Added Distance Catalog for 4 Million Stars from DESI Year-1 Data**
Li, Songting *et al.* (incluye a Allende Prieto, Carlos)[2025AJ....170..171L](#)
- 535.- Updated Masses for the Gas Giants in the Eight-planet Kepler-90 System Via Transit-timing Variation and Radial Velocity Observations**
Shaw, David E. *et al.* (incluye a Barkaoui, Khalid; Narita, Norio; Fukui, Akihiko)[2025AJ....170..146S](#)
- 536.- Using the Hanle Effect in Mg II k to Quantify the Open Flux above the Solar Poles**
Hofmann, Ryan A.; Afonso Delgado, David; Centeno, Rebecca; Casini, Roberto; Rempel, Matthias; del Pino Alemán, Tanausú[2025ApJ...990..134H](#)
- 537.- Validation of TESS Planet Candidates with Multicolor Transit Photometry and TRICERATOPS+**
Gomez Barrientos, Jonathan *et al.* (incluye a Fukui, Akihiko; Palle, Enric; Murgas, Felipe; Narita, Norio)[2025AJ....170..148G](#)
- 538.- 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](#)
- 539.- 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](#)
- 540.- 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](#)
- 541.- TrES-1 b: A Case Study in Detecting Secular Evolution of Exoplanet Orbits**
Hagey, Simone R. *et al.* (incluye a Narita, Norio)[2025AJ....170..197H](#)
- 542.- Connecting laboratory and spectroscopic observations of aerospace materials to characterize the reflectivity of artificial space objects and debris in LEO regimes**
Žilková, Danica; Šilha, Jiří; Vojtek, Pavel; Rodríguez-Villamizar, Julian; de Leon, Julia; Matlovič, Pavol; Sabolová, Katarína; Schildknecht, Thomas; Tóth, Juraj; Lászlo, Robert[2025AcAau.236..479Z](#)
- 543.- 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](#)

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" (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).

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-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"