

PUBLICACIONES EN REVISTAS INTERNACIONALES CON ÁRBITRO

(Publications in Refereed International Journals)

2025-PI

- 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**
Hodge, J. A. *et al.* (incluye a **Dannerbauer, H.**) [2025ApJ...978..165H](#)
- 6.- **Assessing the accuracy of star formation rate measurements by direct star count in molecular clouds**
Dib, Sami *et al.* (incluye a **Comerón, Sébastien**) [2025A&A...693A..51D](#)
- 7.- **Atacama Large Aperture Submillimeter Telescope (AtLAST) science: Probing the transient and time-variable sky**
Orlowski-Scherer, John *et al.* (incluye a **Hatziminaoglou, Evanthia**) [2025ORE.....4..132O](#)
- 8.- **Calibrating the Clock of JWST**
Shaw, A. W. *et al.* (incluye a **Dhillon, V. S.**; **Shahbaz, T.**) [2025AJ....169...21S](#)
- 9.- **CARMENES input catalogue of M dwarfs: IX. Multiplicity from close spectroscopic binaries to ultra-wide systems**
Cifuentes, C. *et al.* (incluye a **Béjar, V. J. S.**; **Lodieu, N.**) [2025A&A...693A.228C](#)
- 10.- **CHEOPS observations confirm nodal precession in the WASP-33 system**
Smith, A. M. S. *et al.* (incluye a **Alonso, R.**; **Pallé, E.**; **Villaver, E.**) [2025A&A...693A.128S](#)
- 11.- **CHEX-MATE: Dynamical masses for a sample of 101 Planck Sunyaev-Zeldovich-selected galaxy clusters**
Serenó, Mauro *et al.* (incluye a **Barrena, Rafael**; **Streblyanska, Alina**; **Zarattini, Stefano**) [2025A&A...693A...2S](#)
- 12.- **Comparing metallicity correlations in nearby non-AGN and AGN-host galaxies**
Li, Song-Lin; Li, Zefeng; Wisnioski, Emily; Krumholz, Mark R.; **Sánchez, Sebastián F.** [2025MNRAS.536..430L](#)
- 13.- **Connection between planetary He I $\lambda 10 830 \text{ \AA}$ absorption and extreme-ultraviolet emission of planet-host stars**
Sanz-Forcada, J. *et al.* (incluye a **Murgas, F.**; **Orell-Miquel, J.**; **Pallé, E.**) [2025A&A...693A.285S](#)
- 14.- **Constraints on compact objects from the Dark Energy Survey 5-yr supernova sample**
Shah, P. *et al.* (incluye a **Carnero Rosell, A.**) [2025MNRAS.536..946S](#)

- 15.- **Copacabana: a probabilistic membership assignment method for galaxy clusters**
Esteves, J. H. et al. (incluye a Carnero Rosell, A.)[2025MNRAS.536..931E](#)
- 16.- **Cosmic-ray acceleration and escape from supernova remnant W44 as probed by Fermi-LAT and MAGIC**
Abe, S. et al. (incluye a Acciari, V. A.; Becerra González, J.; Colombo, E.; García López, R. J.; Herrera, J.; López-Oramas, A.; Molero González, M.; Molina, E.; Nievas Rosillo, M.; Njoh Ekoume, T.; Vazquez Acosta, M.)[2025A&A...693A.255A](#)
- 17.- **DALI sensitivity to streaming axion dark matter**
De Miguel, Javier; Kryemadhi, Abaz; Zioutas, Konstantin; DALI Collaboration[2025PhRvD.111b3016D](#)
- 18.- **Dark energy survey year 3 results: cosmology from galaxy clustering and galaxy-galaxy lensing in harmonic space**
Faga, L. et al. (incluye a Carnero Rosell, A.)[2025MNRAS.536.1586F](#)
- 19.- **Dark energy survey year 3 results: likelihood-free, simulation-based wCDM inference with neural compression of weak-lensing map statistics**
Jeffrey, N. et al. (incluye a Carnero Rosell, A.)[2025MNRAS.536.1303J](#)
- 20.- **Deep learning image burst stacking to reconstruct high-resolution ground-based solar observations**
Schirninger, C.; Jarolim, R.; Veronig, A. M.; Kuckein, C.[2025A&A...693A...6S](#)
- 21.- **DESI 2024 IV: Baryon Acoustic Oscillations from the Lyman alpha forest**
Adame, A. G. et al. (incluye a Carnero Rosell, A.; Sinigaglia, F.)[2025JCAP...01..124A](#)
- 22.- **Detection of a Magnetic Discontinuity in the Upper Solar Chromosphere Associated with a Coronal Loop Brightening Observed by CLASP2.1**
Song, Donguk et al. (incluye a Trujillo Bueno, Javier; Alsina Ballester, Ernest; del Pino Alemán, Tanausú)[2025ApJ...978..140S](#)
- 23.- **Detection of Extended X-Ray Emission around the PeVatron Microquasar V4641 Sgr with XRISM**
Suzuki, Hiromasa et al. (incluye a Muñoz-Darias, Teo; Armas Padilla, Montserrat)[2025ApJ...978L..20S](#)
- 24.- **Detection of stellar wakes in the Milky Way: A deep learning approach**
Pöder, Sven; Pata, Joosep; Benito, María; Alonso Asensio, Isaac; Dalla Vecchia, Claudio[2025A&A...693A.227P](#)
- 25.- **Discovery of a Ly α blob photo-ionised by a super-cluster of massive stars associated with a $z = 3.49$ galaxy**
Zarattini, S.; Rodríguez-Espinosa, J. M.; Muñoz-Tuñón, C.; Mas-Hesse, J. M.; Arrabal Haro, P.[2025A&A...693A.133Z](#)
- 26.- **Dynamical confirmation of a black hole in the X-ray transient Swift J1727.8-1613**
Mata Sánchez, D.; Torres, M. A. P.; Casares, J.; Muñoz-Darias, T.; Armas Padilla, M.; Yanes-Rizo, I. V.[2025A&A...693A.129M](#)
- 27.- **Euclid and KiDS-1000: Quantifying the impact of source-lens clustering on cosmic shear analyses**
Linke, L. et al. (incluye a Rebolo, R.)[2025A&A...693A.210L](#)
- 28.- **Euclid preparation: LV. Exploring the properties of proto-clusters in the Simulated Euclid Wide Survey**
Euclid Collaboration et al. (incluye a Dannerbauer, H.; Colodro-Conde, C.; Rebolo, R.; Gutierrez, C. M.)[2025A&A...693A..59E](#)
- 29.- **Evaluating cosmological biases using photometric redshifts for Type Ia Supernova cosmology with the Dark Energy Survey Supernova Program**
Chen, R. C. et al. (incluye a Carnero Rosell, A.)[2025MNRAS.536.1948C](#)

- 30.- **Evidence of the Amino Acids Tyrosine and Phenylalanine in the Interstellar Material of IC348 in Perseus**
Iglesias-Groth, Susana; Marín Dobrincic, Martina; Pérez Garrido, Antonio; Gutierrez, Carlos [2025Life...15..181I](#)
- 31.- **Evolution of the Accretion Disk and Corona during the Outburst of the Neutron Star Transient MAXI J1807+132**
Rout, Sandeep K.; Muñoz-Darias, Teo; Homan, Jeroen; Armas Padilla, Montserrat; Russell, David M.; Alabarta, Kevin; Saikia, Payaswini [2025ApJ...978...12R](#)
- 32.- **Evolution of the star formation rate surface density main sequence: Insights from a semi-analytic simulation since $z = 12$**
Nadolny, Jakub; Michałowski, Michał J.; Parente, Massimiliano; Solar, Martín; Nowaczyk, Przemysław; Ryzhov, Oleh; Leśniewska, Aleksandra [2025A&A...693L...6N](#)
- 33.- **Exploring spectropolarimetric inversions using neural fields: Solar chromospheric magnetic field under the weak-field approximation**
Díaz Baso, C. J.; Asensio Ramos, A.; de la Cruz Rodríguez, J.; da Silva Santos, J. M.; Rouppe van der Voort, L. [2025A&A...693A.170D](#)
- 34.- **Extragalactic globular cluster near-infrared spectroscopy: II. The stellar population synthesis model zero-point problem extends to the near-infrared**
Eftekhari, E.; Vazdekis, A.; Riffel, R.; Dahmer-Hahn, L. G.; Chies-Santos, A. L.; Beasley, M. A.; Villaume, A.; Zanatta, E. [2025A&A...693A.238E](#)
- 35.- **Fiducial-cosmology-dependent systematics for the DESI 2024 BAO analysis**
Pérez-Fernández, A. et al. (incluye a Carnero Rosell, A.) [2025JCAP...01..144P](#)
- 36.- **HD 119130 b Is Not an "Ultradense" Sub-Neptune**
Akana Murphy, Joseph M. et al. (incluye a Carleo, Ilaria; Palle, Enric; Lacedelli, Gaia; Murgas, Felipe; Nowak, Grzegorz; Orell-Miquel, J.) [2025AJ....169...26M](#)
- 37.- **High-resolution observational analysis of flare ribbon fine structures**
Thoen Faber, Jonas; Joshi, Reetika; van der Voort, Luc Rouppe; Wedemeyer, Sven; Fletcher, Lyndsay; Aulanier, Guillaume; Nóbrega-Siverio, Daniel [2025A&A...693A...8T](#)
- 38.- **Hyperons during proto-neutron star deleptonization and the emission of dark flavoured particles**
Fischer, Tobias; Martin Camalich, Jorge; Kochankovski, Hristijan; Tolos, Laura [2025JCAP...01..061F](#)
- 39.- **Implications of the Intriguing Constant Inner Mass Surface Density Observed in Dark Matter Halos**
Sánchez Almeida, Jorge [2025Galax..13....6S](#)
- 40.- **Magnetic topology of quiet-Sun Ellerman bombs and associated ultraviolet brightenings**
Bhatnagar, Aditi; Prasad, Avijeet; Rouppe van der Voort, Luc; Nóbrega-Siverio, Daniel; Joshi, Jayant [2025A&A...693A.221B](#)
- 41.- **Milky Way Dark Matter Distribution or MOND Test from Vertical Stellar Kinematics with Gaia DR3**
López-Corredoira, Martín [2025ApJ...978...45L](#)
- 42.- **Molecular gas stratification and disturbed kinematics in the Seyfert galaxy MCG-05-23-16 revealed by JWST and ALMA**
Esparza-Arredondo, D. et al. (incluye a Ramos Almeida, C.; Audibert, A.; García-Lorenzo, B.) [2025A&A...693A.174E](#)
- 43.- **Multi-wavelength picture of the misaligned BL Lac object 3C 371**
Otero-Santos, J. et al. (incluye a Acosta-Pulido, J. A.) [2025A&A...693A.196O](#)
- 44.- **Multiband Optical Variability of the Blazar 3C 454.3 on Diverse Timescales**
Dogra, Karan et al. (incluye a Acosta-Pulido, J. A.) [2025ApJS..276....1D](#)

- 45.- **Near-ultraviolet absorption distribution of primitive asteroids from photometric surveys: II. Collisional families**
Tatsumi, Eri; Vilas, Faith; de León, Julia; Popescu, Marcel; Hasegawa, Sunao; De Prá, Mario; Tínaut-Ruano, Fernando; Licandro, Javier[2025A&A...693A.140T](#)
- 46.- **New constraints on the central mass contents of Omega Centauri from combined stellar kinematics and pulsar timing**
Bañares-Hernández, Andrés; Calore, Francesca; Martín Camalich, Jorge; Read, Justin I.[2025A&A...693A.104B](#)
- 47.- **Observations of umbral flashes in the resonant sunspot chromosphere**
Felipe, T.; González Manrique, S. J.; Martínez-Gómez, D.; Gómez-Míguez, M. M.; Khomenko, E.; Quintero Noda, C.; Socas-Navarro, H.[2025A&A...693A.165F](#)
- 48.- **Orbit determination of visual binary systems observed with CST telescope in 2010–2013**
Rica, Francisco; Barrena, Rafael; Henríquez, Juan Antonio; Vázquez, Gabriel; Vázquez, Carlos; Hernández, David; del Rosario, Jorge Luis[2025PASA...42...25R](#)
- 49.- **Production of alternate realizations of DESI fiber assignment for unbiased clustering measurement in data and simulations**
Lasker, J. et al. (incluye a Carnero Rosell, A.)[2025JCAP...01..127L](#)
- 50.- **Radii, masses, and transit-timing variations of the three-planet system orbiting the naked-eye star TOI-396**
Bonfanti, A. et al. (incluye a Murgas, F.; Pallé, E.)[2025A&A...693A..90B](#)
- 51.- **Requirements on the gain calibration for LiteBIRD polarisation data with blind component separation**
Carralot, F. et al. (incluye a Adak, D.; Génova-Santos, R. T.; Rubiño-Martín, J. A.)[2025JCAP...01..019C](#)
- 52.- **REsolved ALMA and SMA Observations of Nearby Stars (REASONS): A population of 74 resolved planetesimal belts at millimetre wavelengths**
Matrà, L. et al. (incluye a del Burgo, C.)[2025A&A...693A.151M](#)
- 53.- **Revisiting the multi-planetary system of the nearby star HD 20794: Confirmation of a low-mass planet in the habitable zone of a nearby G-dwarf**
Nari, N. et al. (incluye a Suárez Mascareño, A.; González Hernández, J. I.; Stefanov, A. K.; Passegger, V. M.; Rebolo, R.; Allende Prieto, C.; Génova-Santos, R.; Palles, E.)[2025A&A...693A.297N](#)
- 54.- **Strong spectral features from asymptotic giant branch stars in distant quiescent galaxies**
Lu, Shiyang et al. (incluye a D'Eugenio, Chiara; Huertas-Company, Marc)[2025NatAs...9..128L](#)
- 55.- **The construction of large-scale structure catalogs for the Dark Energy Spectroscopic Instrument**
Ross, A. J. et al. (incluye a Carnero Rosell, A.)[2025JCAP...01..125R](#)
- 56.- **The Galaxy Activity, Torus, and Outflow Survey (GATOS): VI. Black hole mass estimation using machine learning**
Poitevineau, R. et al. (incluye a Ramos Almeida, C.; Audibert, A.; García-Lorenzo, B.)[2025A&A...693A.311P](#)
- 57.- **The GAPS programme at TNG: LXIV. An inner eccentric sub-Neptune and an outer sub-Neptune-mass candidate around BD+00 444 (TOI-2443)**
Naponiello, L. et al. (incluye a Lorenzi, V.)[2025A&A...693A...7N](#)
- 58.- **The IACOB project: XIII. Helium enrichment in O-type stars as a tracer of past binary interaction**
Martínez-Sebastián, C.; Simón-Díaz, S.; Jin, H.; Keszthelyi, Z.; Holgado, G.; Langer, N.; Puls, J.[2025A&A...693L..10M](#)

- 59.- **The Impact of the Angle-average Approximation in the Partial Frequency Redistribution Modeling of the Mg II h–k Doublet Stokes Profiles**
del Pino Alemán, Tanausú; **Alsina Ballester, Ernest**; Trujillo Bueno, Javier; Janett, Gioele; Riva, Fabio; Belluzzi, Luca [2025ApJ...978...27D](#)
- 60.- **The Intrinsic Flattening of Galaxy Disks**
Favaro, Jeremy; Courteau, Stéphane; **Comerón, Sébastien**; Stone, Connor [2025ApJ...978...63F](#)
- 61.- **The multiple classes of ultra-diffuse galaxies: can we tell them apart?**
Buzzo, Maria Luisa et al. (incluye a **Ferré-Mateu, Anna**) [2025MNRAS.536.2536B](#)
- 62.- **The PAU survey: Enhancing photometric redshift estimation using DEEPz**
Daza-Perilla, I. V. et al. (incluye a **Siudek, M.**) [2025A&A...693A.102D](#)
- 63.- **The puzzle of isolated and quenched dwarf galaxies in cosmic voids**
Bidaran, Bahar et al. (incluye a **Ferré-Mateu, Anna**; **Falcón-Barroso, Jesús**) [2025A&A...693L..16B](#)
- 64.- **The SDSS-V Local Volume Mapper: Data Analysis Pipeline**
Sánchez, Sebastián F. et al. [2025AJ...169..52S](#)
- 65.- **TOI-2458 b: A mini-Neptune consistent with in situ hot Jupiter formation**
Šubjak, Ján et al. (incluye a **Deeg, Hans J.**; **Mathur, Savita**; **Narita, Norio**; **Orell-Miquel, Jaume**; **Pallé, Enric**) [2025A&A...693A.235S](#)
- 66.- **Tracing the evolutionary pathways of dust and cold gas in high-z quiescent galaxies with SIMBA**
Lorenzon, G. et al. (incluye a **Junais**) [2025A&A...693A.118L](#)
- 67.- **Unified multiwavelength data analysis workflow with gammapy: Constraining the broadband emission of the flat-spectrum radio quasar OP 313**
Nievas Rosillo, M.; Acero, F.; Otero-Santos, J.; **Vazquez Acosta, M.**; Terrier, R.; Morcuende, D.; Arbet-Engels, A. [2025A&A...693A.287N](#)
- 68.- **Unveiling dust, molecular gas, and high star-formation efficiency in extremely UV bright star-forming galaxies at $z \sim 2.1$ –3.6**
Dessauges-Zavadsky, M.; Marques-Chaves, R.; Schaerer, D.; Xiao, M. -Y.; Colina, L.; Alvarez-Marquez, J.; **Pérez-Fournon, I.** [2025A&A...693A..17D](#)
- 69.- **Why do some ultra diffuse Galaxies have rich globular cluster systems?**
Forbes, Duncan A.; Buzzo, Maria Luisa; **Ferre-Mateu, Anna**; Romanowsky, Aaron J.; Gannon, Jonah; Brodie, Jean P.; Collins, Michelle L. M. [2025MNRAS.536.1217F](#)
- 70.- **X-Ray and Optical Polarization Aligned with the Radio Jet Ejecta in GX 339–4**
Mastroserio, G. et al. (incluye a **Ambri, A.**) [2025ApJ...978L..19M](#)
- 71.- **A JWST/DiSCo-TNOs portrait of the primordial Solar System through its trans-Neptunian objects**
Pinilla-Alonso, Noemí et al. (incluye a **Lorenzi, Vania**; **Licandro, Javier**) [2025NatAs...9..230P](#)
- 72.- **A Link Between White Dwarf Pulsars and Polars: Multiwavelength Observations of the 9.36-minute Period Variable Gaia22ayj**
Rodríguez, Antonio C. et al. (incluye a **Rodríguez-Gil, Pablo**) [2025PASP..137b4202R](#)
- 73.- **A Nonstop Aurora? The Intriguing Radio Emission from the Rapidly Rotating Magnetic Massive Star HR 5907**
Biswas, Ayan; Das, Barnali; Barron, James A.; Wade, Gregg A.; **Holgado, Gonzalo** [2025ApJ...980..260B](#)
- 74.- **A reference framework for extremely metal-poor OB star studies: calibrations for stellar parameters and intrinsic colours**
Lorenzo, M.; García, M.; Castro, N.; Najarro, F.; Cerviño, M.; **Herrero, A.**; **Simón-Díaz, S.** [2025MNRAS.537.1197L](#)

- 75.- **Advanced Phase Diversity Method for telescope static aberration compensation**
Rodríguez-Linares, Nicolás; González-Cava, José M.; Montoya, Luzma; Méndez, Juan Albino; Martín, Yolanda; Núñez-Cagigal, Miguel [2025Meas..24115761R](#)
- 76.- **Antiprotons and Elementary Particles over a Solar Cycle: Results from the Alpha Magnetic Spectrometer**
Aguilar, M. *et al.* (incluye a García-López, R. J.; Molero, M.; Vázquez Acosta, M.) [2025PhRvL.134e1002A](#)
- 77.- **APOKASC-3: The Third Joint Spectroscopic and Asteroseismic Catalog for Evolved Stars in the Kepler Fields**
Pinsonneault, Marc H. *et al.* (incluye a Mathur, Savita; Liagre, Bastien; Beck, Paul G.; Godoy-Rivera, Diego) [2025ApJS..276...69P](#)
- 78.- **Basaltic quasi-mini-moon: Characterizing 2024 PT₅ with the 10.4 m Gran Telescopio Canarias and the Two-meter Twin Telescope**
de la Fuente Marcos, R. *et al.* (incluye a de León, J.; Serra-Ricart, M.; Alarcon, M. R.; Licandro, J.; Geier, S.; Tejero, A.; Perez Romero, A.; Perez-Toledo, F.; Cabrera-Lavers, A.) [2025A&A...694L...5D](#)
- 79.- **Characterization of Markarian 421 during its most violent year: Multiwavelength variability and correlations**
Abe, K. *et al.* (incluye a Becerra González, J.; García López, R. J.; Herrera Llorente, J.; López-Oramas, A.; Molero González, M.; Molina, E.) [2025A&A...694A.195A](#)
- 80.- **Characterization of seven transiting systems, including four warm Jupiters from SOPHIE and TESS**
Heidari, N. *et al.* (incluye a Barkaoui, K.; Fukui, A.; Murgas, F.; Narita, N.; Palle, E.) [2025A&A...694A..36H](#)
- 81.- **Constraining the shape of dark matter haloes using only starlight: I. A new technique and its application to the galaxy Nube**
Sánchez Almeida, Jorge; Trujillo, Ignacio; Montes, Mireia; Plastino, Angel R. [2025A&A...694A.283S](#)
- 82.- **Constraints on f(R) gravity from thermal-Sunyaev-Zel'dovich-effect-selected SPT galaxy clusters and weak lensing mass calibration from DES and HST**
Vogt, S. M. L. *et al.* (incluye a Carnero Rosell, A.) [2025PhRvD.111d3519V](#)
- 83.- **Deep view of the intracluster light in the Coma cluster of galaxies**
Jiménez-Teja, Yolanda; Román, Javier; HyeonHan, Kim; Vílchez, Jose M.; Dupke, Renato A.; Lopes, Paulo Afrânio Augusto; Rich, Robert Michael; Cáceres, Osmin; Li, Chester [2025A&A...694A.216J](#)
- 84.- **DESI 2024 VI: cosmological constraints from the measurements of baryon acoustic oscillations**
Adame, A. G. *et al.* (incluye a Carnero Rosell, A.) [2025JCAP...02..021A](#)
- 85.- **Detection of binary companions below the diffraction limit with lucky imaging**
Cagigas, M. A. *et al.* (incluye a Clavero, R.; Nespral, D.; Jones, D.; Soria, E.; López, R.; Zamora, O.; Oscoz, Á.; Marco, J.) [2025A&A...694A..48C](#)
- 86.- **Discovery and Characterization of an Eccentric, Warm Saturn Transiting the Solar Analog TOI-4994**
Rodríguez Martínez, Romy *et al.* (incluye a Barkaoui, Khalid) [2025AJ....169...72R](#)
- 87.- **Environmental effects on nearby debris discs**
Heras, A. M.; Eiroa, C.; del Burgo, C.; Marshall, J. P.; Montesinos, B. [2025A&A...694A.325H](#)
- 88.- **Eruptive mass loss less than a year before the explosion of superluminous supernovae: I. The cases of SN 2020xga and SN 2022xgc**
Gkini, A. *et al.* (incluye a Poidevin, F.; Geier, S.; Pérez-Fournon, I.) [2025A&A...694A.292G](#)

- 89.- **Euclid preparation: LIX. Angular power spectra from discrete observations**
Euclid Collaboration *et al.* (incluye a Colodro-Conde, C.; Gutierrez, C. M.)[2025A&A...694A.141E](#)
- 90.- **Euclid preparation: LX. The use of HST images as input for weak-lensing image simulations**
Euclid Collaboration *et al.* (incluye a Colodro-Conde, C.; Rebolo, R.)[2025A&A...694A.262E](#)
- 91.- **Euclid: A complete Einstein ring in NGC 6505**
O'Riordan, C. M. *et al.* (incluye a Colodro-Conde, C.; Rebolo, R.; Dannerbauer, H.)[2025A&A...694A.145O](#)
- 92.- **Euclid: Detecting Solar System objects in Euclid images and classifying them using Kohonen self-organising maps**
Nucita, A. A. *et al.* (incluye a Rebolo, R.)[2025A&A...694A.116N](#)
- 93.- **Euclid: Relativistic effects in the dipole of the two-point correlation function**
Lepori, F. *et al.* (incluye a Colodro-Conde, C.)[2025A&A...694A.321L](#)
- 94.- **GD-1 Stellar Stream and Cocoon in the DESI Early Data Release**
Valluri, M. *et al.* (incluye a Allende Prieto, C.; Thomas, G.)[2025ApJ...980..71V](#)
- 95.- **Ground-based Characterization of (98943) Torifune 2001 CC₂₁, the Target of the Hayabusa2# Space Mission**
Popescu, Marcel M. *et al.* (incluye a Licandro, Javier; Alarcon, Miguel R.; Serra-Ricart, Miquel; de León, Julia; Fernandez Martin, Joaquín)[2025PSJ.....6...42P](#)
- 96.- **Intervening nuclear obscuration changing the X-ray look of the $z \approx 6$ quasi-stellar object CFHQS J164121+375520**
Vito, F. *et al.* (incluye a Boschin, W.)[2025A&A...694L..16V](#)
- 97.- **Irradiation origin and stability of CO on trans-Neptunian objects: Laboratory constraints and observational evidence from JWST/DiSCo-TNOs**
Hénault, E. *et al.* (incluye a Licandro, J.; Lorenzi, V.)[2025A&A...694A.126H](#)
- 98.- **LensWatch. II. Improved Photometry and Time-delay Constraints on the Strongly Lensed Type Ia Supernova 2022qmx ("SN Zwicky") with Hubble Space Telescope Template Observations**
Larison, C. *et al.* (incluye a Pérez-Fournon, I.; Poidevin, F.)[2025ApJ...980..172L](#)
- 99.- **Looking into the faintEst With MUSE (LEWIS): Exploring the nature of ultra-diffuse galaxies in the Hydra-I cluster: II. Stellar kinematics and dynamical masses**
Buttitta, Chiara *et al.* (incluye a Falcón-Barroso, Jesus)[2025A&A...694A.276B](#)
- 100.- **Mapping dusty galaxy growth at $z > 5$ with FRESCO: detection of H α in submm galaxy HDF850.1 and the surrounding overdense structures**
Herard-Demanche, Thomas *et al.* (incluye a Dannerbauer, Helmut)[2025MNRAS.537..788H](#)
- 101.- **Measuring the Intracluster Light Fraction with Machine Learning**
Canepa, Louisa; Brough, Sarah; Lanusse, Francois; Montes, Mireia; Hatch, Nina[2025ApJ...980..245C](#)
- 102.- **MOA-2022-BLG-033Lb, KMT-2023-BLG-0119Lb, and KMT-2023-BLG-1896Lb: Three low mass-ratio microlensing planets detected through dip signals**
Han, Cheongho *et al.* (incluye a Fukui, Akihiko)[2025A&A...694A..90H](#)
- 103.- **NGDEEP: The Star Formation and Ionization Properties of Galaxies at $1.7 < z < 3.4$**
Shen, Lu *et al.* (incluye a Huertas-Company, Marc)[2025ApJ...980L..45S](#)
- 104.- **OrCAS: Origins, Compositions, and Atmospheres of Sub-Neptunes. I. Survey Definition**
Crossfield, Ian J. M. *et al.* (incluye a Barkaoui, Khalid; Murgas, Felipe; Palle, Enric; Narita, Norio; Fukui, Akihiko)[2025AJ....169...89C](#)

- 105.- **Planetary nebulae of the Large Magellanic Cloud: II. The connection with the progenitors' properties**
Ventura, P.; Tosi, S.; **García-Hernández, D. A.**; Dell'Agli, F.; Kamath, D.; Stanghellini, L.; Bianchi, S.; Tailo, M.; Gómez-Muñoz, M. A. [2025A&A...694A.177V](#)
- 106.- **Planets Around Solar Twins/Analog (PASTA). I. High-precision Stellar Chemical Abundances for 17 Planet-hosting Stars and the Condensation Temperature Trend**
Sun, Qinghui *et al.* (incluye a Barkaoui, Khalid) [2025ApJ...980..179S](#)
- 107.- **Rapid mid-infrared spectral timing with JWST: GRS 1915+105 during an MIR-bright and X-ray-obscured state**
Gandhi, P. *et al.* (incluye a Dhillon, V. S.; Shahbaz, T.) [2025MNRAS.537.1385G](#)
- 108.- **Revisiting the fundamental parameters for the black hole X-ray transient Swift J1753.5–0127**
Yanes-Rizo, I. V.; Torres, M. A. P.; Casares, J.; Jonker, P. G.; Sánchez-Sierras, J.; Muñoz-Darias, T.; Armas Padilla, M. [2025A&A...694A.119Y](#)
- 109.- **Segue 2 Recently Collided with the Cetus-Palca Stream: New Opportunities to Constrain Dark Matter in an Ultra-faint Dwarf**
Foote, Hayden R.; Besla, Gurtina; Garavito-Camargo, Nicolás; Patel, Ekta; **Thomas, Guillaume F.**; Bonaca, Ana; Price-Whelan, Adrian M.; Peter, Annika H. G.; Zaritsky, Dennis; Conroy, Charlie [2025ApJ...979..171F](#)
- 110.- **Signs of 'Everything Everywhere All at Once' formation in low-surface-brightness globular-cluster-rich dwarf galaxies**
Ferré-Mateu, A.; Gannon, J.; Forbes, D. A.; Romanowsky, A. J.; Buzzo, M. L.; Brodie, J. P. [2025A&A...694L...6F](#)
- 111.- **SN 2023tsz: a helium-interaction-driven supernova in a very low-mass galaxy**
Warwick, B. *et al.* (incluye a Dhillon, V. S.; Pallé, E.) [2025MNRAS.536.3588W](#)
- 112.- **Solar Modulation of Cosmic Nuclei over a Solar Cycle: Results from the Alpha Magnetic Spectrometer**
Aguilar, M. *et al.* (incluye a García-López, R. J.; Molero, M.; Vázquez Acosta, M.) [2025PhRvL.134e1001A](#)
- 113.- **Spider-Webb: JWST Near Infrared Camera resolved galaxy star formation and nuclear activities in the Spiderweb protocluster at $z = 2.16$**
Shimakawa, Rhythm *et al.* (incluye a Dannerbauer, Helmut; Pérez-Martínez, J. M.; D'Eugenio, Chiara; Zhang, Yuheng) [2025MNRAS.537L..36S](#)
- 114.- **State-dependent signatures of jets and winds in the optical and infrared spectrum of the black hole transient GX 339–4**
Ambrifi, A. *et al.* (incluye a Mata Sánchez, D.; Muñoz-Darias, T.; Sánchez-Sierras, J.; Armas Padilla, M.; Casares, J.; Torres, M. A. P.) [2025A&A...694A.109A](#)
- 115.- **Testing disc reprocessing models for AGN optical variability by comparison of X-ray and optical power spectra of NGC 4395**
Beard, M. W. J. *et al.* (incluye a Vincentelli, F.; Dhillon, V. S.; Knapen, J. H.) [2025MNRAS.537..293B](#)
- 116.- **The ALPINE-ALMA [CII] Survey: Unveiling the baryon evolution in the interstellar medium of $z \sim 5$ star-forming galaxies**
Sawant, P. *et al.* (incluye a Junais) [2025A&A...694A..82S](#)
- 117.- **The baryonic mass estimates of the Milky Way halo in the form of high-velocity clouds**
Tahir, Noraiz; López-Corredoira, Martín; De Paolis, Francesco [2025NewA..11502328T](#)
- 118.- **The conceptual design of the 50-meter Atacama Large Aperture Submillimeter Telescope (AtLAST)**
Mroczkowski, Tony *et al.* (incluye a Hatziminaoglou, Evanthia) [2025A&A...694A.142M](#)

- 119.- **The Coronal Power Spectrum from MHD Mode Conversion above Sunspots**
Miriyala, Hemanthi; Morton, Richard J.; Khomenko, Elena; Antolin, Patrick; Botha, Gert J.
[J.2025ApJ...979..236M](#)
- 120.- **The coupled tearing-thermal instability in coronal current sheets from the linear to the non-linear stage**
De Jonghe, Jordi; Sen, Samrat[2025MNRAS.536.3308D](#)
- 121.- **The Dark Energy Survey Supernova Program: an updated measurement of the Hubble constant using the inverse distance ladder**
Camilleri, R. *et al.* (incluye a Carnero Rosell, A.)[2025MNRAS.537.1818C](#)
- 122.- **The elderly among the oldest: new evidence for extremely metal-poor RR Lyrae stars**
D'Orazi, V. *et al.* (incluye a Sánchez-Benavente, M.; Monelli, M.)[2025A&A...694A.158D](#)
- 123.- **The Fate of the Interstellar Medium in Early-type Galaxies. V. Active Galactic Nucleus Feedback from Optical Spectral Classification**
Ryzhov, Oleh; Michałowski, Michał J.; Nadolny, J.; Hjorth, J.; Leśniewska, A.; Solar, M.; Nowaczyk, P.; Gall, C.; Takeuchi, T. T.[2025ApJS..276...55R](#)
- 124.- **The Galaxy Activity, Torus, and Outflow Survey (GATOS). VII. The 20–214 μm Imaging Atlas of Active Galactic Nuclei Using SOFIA**
Fuller, Lindsay *et al.* (incluye a Ramos Almeida, Cristina)[2025ApJS..276...64F](#)
- 125.- **The kinematics of massive high-redshift dusty star-forming galaxies**
Amvrosiadis, A. *et al.* (incluye a Dannerbauer, H.)[2025MNRAS.536.3757A](#)
- 126.- **The Microlensing Event Rate and Optical Depth from MOA-II 9 Yr Survey Toward the Galactic Bulge**
Nunota, Kansuke *et al.* (incluye a Fukui, Akihiko)[2025ApJ...979..123N](#)
- 127.- **The wide binary frequency of metal-poor stars**
Lodieu, N.; Pérez Garrido, A.; Zhang, J. -Y.; Martín, E. L.; Rebolo López, R.; Pérez-Toledo, F.; Clavero, R.; Nespral, D.[2025A&A...694A.129L](#)
- 128.- **Thermal evolution of trans-Neptunian objects through observations of Centaurs with JWST**
Licandro, Javier *et al.*[2025NatAs...9..245L](#)
- 129.- **Time-dependent modelling of short-term variability in the TeV-blazar VER J0521+211 during the major flare in 2020**
MAGIC Collaboration *et al.* (incluye a Becerra González, J.; García López, R. J.; Herrera Llorente, J.; López-Oramas, A.; Molero González, M.; Molina, E.; Nievas Rosillo, M.; Vazquez Acosta, M.)[2025A&A...694A.308M](#)
- 130.- **Titanium chemistry of WASP-121 b with ESPRESSO in 4-UT mode**
Prinoth, B. *et al.* (incluye a Suárez Mascareño, A.)[2025A&A...694A.284P](#)
- 131.- **TOI-5108 b and TOI 5786 b: Two transiting sub-Saturns detected and characterized with TESS, MaHPS, and SOPHIE**
Thomas, Luis *et al.* (incluye a Murgas, Felipe; Parviainen, Hannu; Esparza-Borges, Emma; Fukui, Akihiko; Narita, Norio; Palle, Enric)[2025A&A...694A.143T](#)
- 132.- **Transit-timing variations in the AU Mic system observed with CHEOPS**
Boldog, Á. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.)[2025A&A...694A.137B](#)
- 133.- **Two almost planetary mass survivors of common envelope evolution**
Parsons, S. G. *et al.* (incluye a Dhillon, V. S.)[2025MNRAS.537.2112P](#)
- 134.- **Widespread CO₂ and CO ices in the trans-Neptunian population revealed by JWST/DiSCo-TNOS**
De Prá, Mário N. *et al.* (incluye a Licandro, Javier; Lorenzi, Vania)[2025NatAs...9..252D](#)

- 135.- **ZF-UDS-7329: A relic galaxy in the early Universe**
Hartmann, Eduardo A.; Martín-Navarro, Ignacio; Huertas-Company, Marc; Benedetti, João P. V.; Iglesias-Navarro, Patricia; Vazdekis, Alexandre; Montes, Mireia [2025A&A...694L...7H](#)
- 136.- **A 1.8 m Class Pathfinder Raman LIDAR for the Northern Site of the Cherenkov Telescope Array Observatory—Technical Design**
Ballester, Otger *et al.* (incluye a López-Oramas, Alicia) [2025RemS...17.1074B](#)
- 137.- **A closer look at LTT 9779b: The ESPRESSO endeavour to pierce the atmospheric veil**
Ramírez Reyes, R. *et al.* (incluye a Pavlenko, Y.; Palle, E.) [2025A&A...695A..26R](#)
- 138.- **A joint effort to discover and characterize two resonant mini-Neptunes around TOI-1803 with TESS, HARPS-N, and CHEOPS**
Zingales, T. *et al.* (incluye a Lacedelli, G.; Carleo, I.; Alonso, R.; Barkaoui, K.; Fukui, A.; Narita, N.; Pallé, E.; Villaver, E.) [2025A&A...695A.273Z](#)
- 139.- **A new class of dark matter-free dwarf galaxies?: I. Clues from FCC 224, NGC 1052-DF2, and NGC 1052-DF4**
Buzzo, Maria Luisa *et al.* (incluye a Ferré-Mateu, Anna) [2025A&A...695A.124B](#)
- 140.- **A swarm of dusty objects in orbit around the central star of planetary nebula WeSb 1**
Budaj, Jan; Bernhard, Klaus; Jones, David; Munday, James [2025NatAs...9..380B](#)
- 141.- **Accretion disc winds imprint distinct signatures in the optical variability spectrum of black hole transients**
Vincentelli, Federico M.; Muñoz-Darias, Teo [2025A&A...695A.181V](#)
- 142.- **An Unexplained Origin for the Unusual Globular Cluster System in the Ultradiffuse Galaxy FCC 224**
Tang, Yimeng *et al.* (incluye a Ferré-Mateu, Anna) [2025ApJ...982....1T](#)
- 143.- **BOWIE-ALIGN: JWST reveals hints of planetesimal accretion and complex sulphur chemistry in the atmosphere of the misaligned hot Jupiter WASP-15b**
Kirk, James *et al.* (incluye a Esparza-Borges, Emma) [2025MNRAS.537.3027K](#)
- 144.- **Ca II and H α flaring M dwarfs detected with multi-filter photometry**
Mas-Buitrago, P.; Zhang, J. -Y.; Solano, E.; Martín, E. L. [2025A&A...695A.182M](#)
- 145.- **Combined search in dwarf spheroidal galaxies for branon dark matter annihilation signatures with the MAGIC telescopes**
Abe, S. *et al.* (incluye a Becerra González, J.; García López, R. J.; Herrera Llorente, J.; López-Oramas, A.; Molero González, M.; Molina, E.; Nievas Rosillo, M.; Vazquez Acosta, M.) [2025JCAP...03..020A](#)
- 146.- **Constraining cosmological parameters using void statistics from the SDSS survey**
Fernández-García, Elena; Betancort-Rijo, Juan E.; Prada, Francisco; Ishiyama, Tomoaki; Klypin, Anatoly; Ereza, Julia [2025A&A...695A..19F](#)
- 147.- **COSMOS-Web: Stellar mass assembly in relation to dark matter halos across $0.2 < z < 12$ of cosmic history**
Shuntov, M. *et al.* (incluye a Huertas-Company, M.) [2025A&A...695A..20S](#)
- 148.- **Dark Energy Survey Year 3 results: Simulation-based cosmological inference with wavelet harmonics, scattering transforms, and moments of weak lensing mass maps. II. cosmological results**
Gatti, M. *et al.* (incluye a Carnero Rosell, A.) [2025PhRvD.111f3504G](#)
- 149.- **DES to HSC: Detecting low-surface-brightness galaxies in the Abell 194 cluster using transfer learning**
Thuruthipilly, H.; Junais; Koda, J.; Pollo, A.; Yagi, M.; Yamanoi, H.; Komiyama, Y.; Romano, M.; Malek, K.; Donevski, D. [2025A&A...695A.106T](#)

- 150.- **Detection of RS Oph with LST-1 and modelling of its HE/VHE gamma-ray emission**
Abe, K. et al. (incluye a Barrios Jiménez, L.; Becerra González, J.; García López, R.; Herrera Llorente, J.; López-Oramas, A.; Molero Gonzalez, M.; Molina, E.; Nievas Rosillo, M.; Vázquez Acosta, M.)[2025A&A...695A.152A](#)
- 151.- **Discovery of the variable optical counterpart of the redback pulsar PSR J2055+1545**
Turchetta, Marco; Sen, Bidisha; Simpson, Jordan A.; Linares, Manuel; Breton, Rene P.; Casares, Jorge; Kennedy, Mark R.; Shahbaz, Tariq[2025MNRAS.538..380T](#)
- 152.- **Emergence of magnetic flux sheets in the quiet Sun: I. Statistical properties**
Díaz-Castillo, S. M.; Fischer, C. E.; Moreno-Insertis, F.; Guglielmino, S. L.; Ishikawa, R.; Criscuoli, S.[2025A&A...695A..45D](#)
- 153.- **Euclid preparation: LXI. Cosmic Dawn Survey: 'Pre-launch' multiwavelength catalogues for Euclid Deep Field North and Euclid Deep Field Fornax**
Euclid Collaboration et al. (incluye a Dannerbauer, H.; Colodro-Conde, C.; Rebolo, R.; Huertas-Company, M.)[2025A&A...695A.229E](#)
- 154.- **Euclid preparation: LXII. Simulations and non-linearities beyond Lambda cold dark matter. 1. Numerical methods and validation**
Euclid Collaboration et al. (incluye a Colodro-Conde, C.; Balaguera-Antolinez, A.; Diaz, J. J.; Gutierrez, C. M.)[2025A&A...695A.230E](#)
- 155.- **Euclid preparation: LXIII. Simulations and non-linearities beyond Lambda cold dark matter. 2. Results from non-standard simulations**
Euclid Collaboration et al. (incluye a Colodro-Conde, C.; Rebolo, R.; Diaz, J. J.; Gutierrez, C. M.)[2025A&A...695A.232E](#)
- 156.- **Euclid preparation: LXV. Determining the weak lensing mass accuracy and precision for galaxy clusters**
Euclid Collaboration et al. (incluye a Colodro-Conde, C.; Diaz, J. J.; Gutierrez, C. M.)[2025A&A...695A.280E](#)
- 157.- **Euclid preparation: LXVII. Deep learning true galaxy morphologies for weak lensing shear bias calibration**
Euclid Collaboration et al. (incluye a Colodro-Conde, C.; Diaz, J. J.; Gutierrez, C. M.)[2025A&A...695A.283E](#)
- 158.- **Euclid preparation: LXVIII. Extracting physical parameters from galaxies with machine learning**
Euclid Collaboration et al. (incluye a Laguna, Tenerife, Spain) [Predoc FPI][2025A&A...695A.284E](#)
- 159.- **Exploring the physical origins of halo assembly bias from early times**
Montero-Dorta, Antonio D.; Contreras, Sergio; Celeste Artale, M.; Rodriguez, Facundo; Favole, Ginevra[2025A&A...695A.159M](#)
- 160.- **Follow-up on three poorly studied AM CVn stars**
Aungwerojwit, Amornrat et al. (incluye a Dhillon, V. S.)[2025MNRAS.537.3078A](#)
- 161.- **Gaia-ESO survey: Massive stars in the Carina Nebula: II. The spectroscopic analysis of the O-star population**
Berlanas, S. R. et al.[2025A&A...695A.248B](#)
- 162.- **Gaia20bdk – New FU Ori-type star in the Sh 2-301 star-forming region**
Siwak, M. et al. (incluye a Fiorellino, E.)[2025A&A...695A.130S](#)
- 163.- **Galaxy cluster matter profiles: I. Self-similarity, mass calibration, and observable-mass relation validation employing cluster mass posteriors**
Singh, A. et al. (incluye a Carnero Rosell, A.)[2025A&A...695A..49S](#)
- 164.- **Galaxy mass-size segregation in the cosmic web from the CAVITY parent sample**
Pérez, I. et al. (incluye a Ferré-Mateu, A.; Falcón-Barroso, J.; Sánchez Alarcón, P.)[2025A&A...695A..84P](#)

- 165.- **GRB 221009A: The B.O.A.T. Burst that Shines in Gamma Rays**
Axelsson, M. et al. (incluye a Becerra Gonzalez, J.)[2025ApJS..277...24A](#)
- 166.- **HADES RV Programme with HARPS-N at TNG: XVI. A super-Earth in the habitable zone of the GJ 3998 multi-planet system**
Stefanov, A. K. et al. (incluye a Suárez Mascareño, A.; González Hernández, J. I.; Nari, N.; Rebolo, R.)[2025A&A...695A..62S](#)
- 167.- **Identification of a Turnover in the Initial Mass Function of a Young Stellar Cluster Down to 0.5 $M_{\odot}$**
De Furio, Matthew et al. (incluye a Fiorellino, Eleonora)[2025ApJ...981L..34D](#)
- 168.- **Identifying Missing Quasars from the DESI Bright Galaxy Survey**
Juneau, S. et al. (incluye a Siudek, M.)[2025AJ....169..157J](#)
- 169.- **Intermediate-mass stars and the origin of the gas-giant planet-metallicity correlation**
Maldonado, J.; Mirouh, G. M.; Mendigutía, I.; Montesinos, B.; Gragera-Más, J. L.; Villaver, E.[2025A&A...695A..27M](#)
- 170.- **It is not σ_8 : constraining the non-linear matter power spectrum with the Dark Energy Survey Year-5 supernova sample**
Shah, P. et al. (incluye a Carnero Rosell, A.)[2025MNRAS.537.3814S](#)
- 171.- **J-PLUS: Spectroscopic validation of H α emission line maps in spatially resolved galaxies**
Rahna, P. T. et al. (incluye a Hernández-Monteagudo, C.)[2025A&A...695A.200R](#)
- 172.- **Looking into the faintEst With MUSE (LEWIS): Exploring the nature of ultra-diffuse galaxies in the Hydra I cluster: III. Untangling UDG 32 from the stripped filaments of NGC 3314A with multi-wavelength data**
Hartke, J. et al. (incluye a Falcón-Barroso, J.)[2025A&A...695A..91H](#)
- 173.- **Mapping the Milky Way with Gaia Bp/Rp spectra: I. Systematic flux corrections and atmospheric parameters for 68 million stars**
Ye, Xianhao et al. (incluye a Wu, Wenbo; Allende Prieto, Carlos; Aguado, David S.; González Hernández, Jonay I.; Rebolo, Rafael; del Burgo, Carlos)[2025A&A...695A..75Y](#)
- 174.- **Multiprobe cosmology from the abundance of SPT clusters and DES galaxy clustering and weak lensing**
Bocquet, S. et al. (incluye a Carnero Rosell, A.)[2025PhRvD.111f3533B](#)
- 175.- **Multiwavelength analysis of AT 2023sva: a luminous orphan afterglow with evidence for a structured jet**
Srinivasaragavan, Gokul P. et al. (incluye a Geier, Stefan)[2025MNRAS.538..351S](#)
- 176.- **Multiwavelength Observations of a Jet Launch in Real Time from the Post-changing-look Active Galaxy 1ES 1927+654**
Laha, Sibasish et al. (incluye a Becerra González, Josefa; Acosta-Pulido, J. A.)[2025ApJ...981..125L](#)
- 177.- **Optical evolution of AT 2024wpp: the high-velocity outflows in Cow-like transients are consistent with high spherical symmetry**
Pursiainen, M. et al. (incluye a Dhillon, V. S.)[2025MNRAS.537.3298P](#)
- 178.- **Propagation of Waves in Weakly Ionized Two-fluid Plasmas. I. Small-amplitude Alfvénic Waves**
Martínez-Gómez, David[2025ApJ...982....4M](#)
- 179.- **QUIJOTE scientific results: XVIII. New constraints on the polarisation of the anomalous microwave emission in bright Galactic regions: ρ Ophiuchi, Perseus, and W43**
González-González, R. et al. (incluye a Génova-Santos, R. T.; Rubiño-Martín, J. A.; Peel, M. W.; López-Caraballo, C. H.; Fernández-Torreiro, M.; Rebolo, R.; Hernández-Monteagudo, C.; Adak, D.; Cepeda-Arroita, R.; Fasano, A.; Hoyland, R. J.; Poidevin, F.; Ruiz-Granados, B.; Tramonte, D.; Vansyngel, F.)[2025A&A...695A.245G](#)

- 180.- **Reduced atomic models for large-scale computations: Fe XIII near-infrared lines**
Del Zanna, Giulio; Hebbur Dayananda, Supriya[2025MNRAS.537.3781D](#)
- 181.- **Reduction of the type Ia supernova host galaxy step in the outer regions of galaxies**
Toy, M. et al. (incluye a Carnero Rosell, A.)[2025MNRAS.538..181T](#)
- 182.- **Reformulating polarized radiative transfer for astrophysical applications (I). A formalism allowing non-local Magnus solutions**
Carlin, Edgar S.; Blanes, Sergio; Casas, Fernando[2025OJAp....8E..31C](#)
- 183.- **Retuning radio astronomy for axion dark matter with neutron stars**
De Miguel, Javier[2025PhLB..86239328D](#)
- 184.- **Revisiting symbiotic binaries with interferometry: I. The PIONIER archival collection**
Merc, Jaroslav; Boffin, Henri M. J.[2025A&A...695A..61M](#)
- 185.- **Robust machine learning model of inferring the ex situ stellar fraction of galaxies from photometric data**
Cai, Runsheng; Zhu, Ling; Shen, Shiyin; Wang, Wenting; Pillepich, Annalisa; Falcón-Barroso, Jesús[2025A&A...695A.177C](#)
- 186.- **Scattered synchrotron emission and a giant torus revealed in polarized light in the nearest radio galaxy Centaurus A**
Marin, F.; Hutsemékers, D.; Jiang, C. -Z.; Antonucci, R.; Ogle, P. M.; Bagul, A.; Ramos Almeida, C.; Berton, M.[2025A&A...695A..55M](#)
- 187.- **Search for new Galactic Wolf–Rayet stars using Gaia DR3: I. Candidate selection and the follow-up of the bright sample**
Mulato, Lionel; Merc, Jaroslav; Charbonnel, Stéphane; Garde, Olivier; Le Dû, Pascal; Petit, Thomas[2025A&A...695A.227M](#)
- 188.- **Searches for signatures of ultralight axion dark matter in polarimetry data of the European Pulsar Timing Array**
Porayko, N. K. et al. (incluye a Terol-Calvo, J.; Martin Camalich, J.)[2025PhRvD.111f2005P](#)
- 189.- **Spatially resolved dust properties over 50 kpc in a hyperluminous galaxy merger at $z = 4.6$**
Fernández Aranda, Román et al. (incluye a Hatziminaoglou, Evanthia)[2025A&A...695L..15F](#)
- 190.- **Spectral Diversity of DiSCo's TNOs Revealed by JWST: Early Sculpting and Late Irradiation**
Brunetto, R. et al. (incluye a Licandro, J.)[2025ApJ...982L...8B](#)
- 191.- **TESS Hunt for Young and Maturing Exoplanets (THYME). XII. A Young Mini-Neptune on the Upper Edge of the Radius Valley in the Hyades Cluster**
Distler, Adam et al. (incluye a Barkaoui, Khalid)[2025AJ....169..166D](#)
- 192.- **The Assembly of Supermassive Black Holes at $z < 1$ in Early-type Galaxies from Scaling Relations**
Farrah, D. et al. (incluye a Hatziminaoglou, E.)[2025ApJ...981...71F](#)
- 193.- **The First Identification of Ly α Changing-look Quasars at High Redshift in DESI**
Guo, Wei-Jian et al. (incluye a Siudek, Małgorzata)[2025ApJ...981L...8G](#)
- 194.- **The GAPS Programme at TNG: LXVII. Detection of water and preliminary characterisation of the atmospheres of the two hot Jupiters: KELT-8 b and KELT-23 Ab**
Basilicata, M. et al. (incluye a Bosch, W.)[2025A&A...695A.107B](#)
- 195.- **The IACOB project: XIV. New clues on the location of the TAMS in the massive star domain**
de Burgos, A.; Simón-Díaz, S.; Urbaneja, M. A.; Holgado, G.; Ekström, S.; Ramírez-Tannus, M. C.; Zari, E.[2025A&A...695A..87D](#)
- 196.- **The J-PAS survey: The effect of photometric redshift errors on cosmic voids**
Mansour, J. A. et al. (incluye a Hernández-Monteagudo, C.)[2025A&A...695A.174M](#)

- 197.- **The JCMT BISTRO Survey: Magnetic Fields Align with Orbital Structure in the Galactic Center**
Karoly, Janik *et al.* (incluye a Poidevin, Frédérick; Chung, Eun Jung)[2025ApJ...982L..22K](#)
- 198.- **The LSPE-Strip pointing reconstruction and Star Tracker**
Maris, Michele *et al.* (incluye a Génova-Santos, Ricardo T.; Rubino-Martin, Jose A.)[2025JInst..20P3029M](#)
- 199.- **The MAGPI Survey: The kinematic morphology–density relation (or lack thereof) and the Hubble sequence at $z \sim 0.3$**
Foster, Caroline *et al.* (incluye a Boecker, Alina; Ferré-Matteu, Anna)[2025PASA...42...58F](#)
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Armstrong, David J. *et al.* (incluye a Murgas, Felipe; Palle, Enric)[2025MNRAS.537.3175A](#)
- 201.- **The Pristine survey: XXV. The very metal-poor Galaxy: Chemodynamics through the follow-up of the Pristine-Gaia synthetic catalogue**
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- 203.- **TOI-2015 b: A sub-Neptune in strong gravitational interaction with an outer non-transiting planet**
Barkaoui, K. *et al.* (incluye a Parviainen, H.; Palle, E.; Narita, N.; Passegger, V. M.; Alonso, R.; Calatayud-Borras, Y.; Esparza-Borges, E.; Fernández-Rodríguez, G.; Fukui, A.; Gallardo, P. P. M.; Garcia, N. A.; Geraldía-González, S.; González-Rodríguez, J.; Lacedelli, G.; Libotte, F.; Muñoz Torres, S.; Murgas, F.; Orell-Miquel, J.; Rebolo-López, R.; Pérez-Prieto, J. A.; Poulourtzidis, E.; Rodriguez, P. M.; Sánchez-Benavente, M.)[2025A&A...695A.281B](#)
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- 205.- **Tripling the Census of Dwarf AGN Candidates Using DESI Early Data**
Pucha, Ragadeepika *et al.* (incluye a Siudek, M.)[2025ApJ...982...10P](#)
- 206.- **Unveiling the warm molecular outflow component of type-2 quasars with SINFONI**
Zanchettin, M. V.; Ramos Almeida, C.; Audibert, A.; Acosta-Pulido, J. A.; Cezar, P. H.; Hicks, E.; Lapi, A.; Mullaney, J.[2025A&A...695A.185Z](#)
- 207.- **Vertical structure of an exoplanet's atmospheric jet stream**
Seidel, Julia V. *et al.* (incluye a Pallé, Enric; Suárez Mascareño, Alejandro)[2025Natur.639..902S](#)
- 208.- **Water in Ryugu as a property of processes in its parent body**
Le Pivert-Jolivet, T. *et al.* (incluye a De León, J.; Licandro, J.)[2025A&A...695A.168L](#)
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Gómez-González, V. M. A. *et al.* (incluye a Berlanas, S. R.)[2025A&A...695A.197G](#)
- 210.- **2020 BX₁₂—The Last Binary Asteroid Discovered at Arecibo**
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- 212.- A Virgo Environmental Survey Tracing Ionised Gas Emission (VESTIGE): XVIII. Reconstructing the star formation history of early-type galaxies through the combination of their UV and H α emission**
Martocchia, S. et al. (incluye a Junais)[2025A&A...696A..79M](#)
- 213.- Analyses of anomalous lensing events detected from the UKIRT microlensing survey**
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- 214.- BD+48 873b - a brown dwarf companion candidate**
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- 215.- Calibrating the absolute magnitude of type Ia supernovae in nearby galaxies using [O II] and implications for H β**
Dixon, M. et al. (incluye a Carnero Rosell, A.)[2025MNRAS.538..782D](#)
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Bianchi, D. et al. (incluye a Carnero Rosell, A.)[2025JCAP...04..074B](#)
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Zhang, Michael et al. (incluye a Barkaoui, Khalid; Murgas, Felipe; Palle, Enric)[2025AJ....169..204Z](#)
- 219.- Constraints on optical and near-infrared variability in the localization of the long-period radio transient GLEAM-X J1627-52**
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Arango-Toro, R. C. et al. (incluye a Huertas-Company, M.)[2025A&A...696A.159A](#)
- 221.- DESI 2024 III: baryon acoustic oscillations from galaxies and quasars**
Adame, A. G. et al. (incluye a Carnero Rosell, A.)[2025JCAP...04..012A](#)
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Saito, T. et al. (incluye a Becerra González, J.; Herrera Llorente, J.; López-Oramas, A.)[2025NIMPA107370229S](#)
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Pearce-Casey, R. et al. (incluye a Colodro-Conde, C.)[2025A&A...696A.214P](#)
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Bouy, H. et al. (incluye a Martín, E. L.; Žerjal, M.)[2025A&A...696A..80B](#)
- 225.- High energy radiation induced degradation of poly(lactic acid) (PLLA) film: radiation chemical yield, kinetics, mechanism and radiolacemization evidences**
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Grossmann, D. H. et al. (incluye a Beck, P. G.; Mathur, S.; Godoy-Rivera, D.; Masseron, T.)[2025A&A...696A..42G](#)

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Bonomo, A. S. et al. (incluye a Lacedelli, G.)[2025A&A...696A.233B](#)
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Mazoun, A. et al. (incluye a Carnero Rosell, A.)[2025PhRvD.111h3543M](#)
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Hernandez, Svea et al. (incluye a Ramos Almeida, Cristina)[2025ApJ...983..154H](#)
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Godoy-Rivera, D. et al. (incluye a Mathur, S.; Beck, P. G.; Grossmann, D. H.; Merc, J.; Escorza, A.)[2025A&A...696A.243G](#)
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Mathur, Savita et al. (incluye a Beck, Paul G.; Godoy-Rivera, Diego)[2025ApJ...982..114M](#)
- 233.- Microlensing events indicate that super-Earth exoplanets are common in Jupiter-like orbits**
Zang, Weicheng et al. (incluye a Fukui, Akihiko)[2025Sci...388..400Z](#)
- 234.- Near-infrared spectral variation in Ryugu particles and implication for rapid space weathering by solar UV radiation**
Furukawa, S. et al. (incluye a Le Pivert-Jolivet, T.)[2025NatSR..1514613F](#)
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Abdul-Masih, M.[2025CoSka..55c.390A](#)
- 236.- Physical stellar properties of red giant ellipsoidal binaries in Gaia DR3**
Navarrete, C.; Recio-Blanco, A.; de Laverny, P.; Escorza, A.[2025CoSka..55c.425N](#)
- 237.- Post-common-envelope planetary nebulae**
Jones, D.[2025CoSka..55c.200J](#)
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Egger, J. A. et al. (incluye a Alonso, R.; Pallé, E.; Villaver, E.)[2025A&A...696A..28E](#)
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Durech, J. et al. (incluye a Alarcon, M. R.; Serra-Ricart, M.; Licandro, J.)[2025A&A...696A..76D](#)
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Lokken, M. et al. (incluye a Carnero Rosell, A.)[2025ApJ...982..186L](#)
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Merc, Jaroslav[2025Galax..13...49M](#)
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Stalport, M. et al. (incluye a Murgas, F.; Boschin, W.)[2025A&A...696A..86S](#)
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Kaminski, A. et al. (incluye a Béjar, V. J. S.; Pallé, E.)[2025A&A...696A.101K](#)
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Tantalo, Maria et al.[2025ApJ...983...92T](#)
- 251.- The Einstein Probe Transient EP240414a: Linking Fast X-Ray Transients, Gamma-Ray Bursts, and Luminous Fast Blue Optical Transients
van Dalen, Joyce N. D. et al. (incluye a Mata Sánchez, Daniel; Torres, Manuel A. P.)[2025ApJ...982L..47V](#)
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Golden-Marx, Jesse B. et al. (incluye a Carnero Rosell, A.)[2025MNRAS.538..622G](#)
- 253.- The importance of binary stars
Boffin, H. M. J.; Jones, D.[2025CoSka..55c..21B](#)
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Chrimes, A. A. et al. (incluye a Dhillon, V. S.)[2025A&A...696A.127C](#)
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Yang, Meng-Zhe et al. (incluye a Poidevin, Frédéric)[2025ApJ...983..184Y](#)
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He, Min et al. (incluye a Liu, Shuai)[2025RAA....25d4005H](#)
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Cedrés, Bernabé et al. (incluye a Cepa, Jordi; Padilla-Torres, Carmen P.; Nadolny, Jakub)[2025A&A...696A..85C](#)
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Barkaoui, K. et al. (incluye a Fukui, A.; Martín, E. L.; Murgas, F.; Pallé, E.)[2025A&A...696A..44B](#)
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Hillier, Andrew; Oliver, Ramon; Martínez-Gómez, David[2025A&A...696A.231H](#)

- 261.- Unveiling the bulge-disc structure, AGN feedback, and baryon landscape in a massive spiral galaxy with Mpc-scale radio jets**
Bagchi, Joydeep et al. (incluye a Dabhade, Pratik)[2025MNRAS.538.1628B](#)
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Hon, Marc et al. (incluye a Barkaoui, Khalid; Narita, Norio; Fukui, Akihiko)[2025ApJ...984L...3H](#)
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Beasley, M. A.; Fahrion, K.; Guerra Arencibia, S.; Gvozdenko, A.; Montes, M.[2025A&A...697A.144B](#)
- 265.- Alpha-element abundance patterns in star-forming regions of the Local Universe**
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Ferrente, F.; Quintero Noda, C.; Zuccarello, F.; Guglielmino, S. L.[2025A&A...697A.103F](#)
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Ban, M. et al. (incluye a Fukui, A.; Narita, N.)[2025A&A...697A..57B](#)
- 268.- Binarity at LOW Metallicity (BLOeM): Multiplicity properties of Oe and Be stars**
Bodensteiner, J. et al. (incluye a Lennon, D. J.; Abdul-Masih, M.; Holgado, G.)[2025A&A...698A..38B](#)
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Meech, Annabella et al. (incluye a Esparza-Borges, Emma)[2025MNRAS.539.1381M](#)
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Khomenko, E.; Vitas, N.; Collados, M.; Modestov, M.[2025A&A...697A..29K](#)
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Martín, E. L. et al. (incluye a Žerjal, M.; Muñoz Torres, S.; Lodieu, N.; Béjar, V. J. S.; Zhang, J. -Y.; del Burgo, C.; Dominguez-Tagle, C.; Escobar, A.; Sedighi, N.; Tsilia, S.; Vitas, N.; Rebolo, R.)[2025A&A...697A...7M](#)
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Atek, H. et al. (incluye a Montes, M.)[2025A&A...697A..15A](#)

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Saifollahi, T. *et al.* (incluye a Knapen, J. H.; Román, J.; Rebolo, R.)[2025A&A...697A..10S](#)
- 279.- Euclid: Early Release Observations – Overview of the Perseus cluster and analysis of its luminosity and stellar mass functions**
Cuillandre, J. -C. *et al.* (incluye a Ferré-Mateu, A.; Montes, M.)[2025A&A...697A..11C](#)
- 280.- Euclid: Early Release Observations – Programme overview and pipeline for compact- and diffuse-emission photometry**
Cuillandre, J. -C. *et al.* (incluye a Ferré-Mateu, A.; Knapen, J. H.; Martín, E. L.; Montes, M.; Román, J.; Žerjal, M.; Rebolo, R.)[2025A&A...697A...6C](#)
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Kluge, M. *et al.* (incluye a Montes, M.; Rebolo, R.)[2025A&A...697A..13K](#)
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Massari, D. *et al.* (incluye a Rebolo, R.)[2025A&A...697A...8M](#)
- 283.- Euclid: I. Overview of the Euclid mission**
Euclid Collaboration *et al.* (incluye a Balaguera-Antolinez, A.; Balcells, M.; Barrena, R.; Bermejo-Climent, J. R.; Colodro-Conde, C.; Dannerbauer, H.; Diaz, J. J.; Ferré-Mateu, A.; Ferreras, I.; Genova Santos, R.; Gutierrez, C. M.; Hernández-Monteagudo, C.; Huertas-Company, M.; Iglesias-Groth, S.; Knapen, J. H.; Lodieu, N.; Martin, E. L.; Mendez-Abreu, J.; Ramos-Chernenko, N.; Rebolo, R.; Roman, J.; Rubino-Martin, J. A.)[2025A&A...697A...1E](#)
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Euclid Collaboration *et al.* (incluye a Colodro-Conde, C.; Rebolo, R.; Huertas-Company, M.; Gutierrez, C. M.)[2025A&A...697A...2E](#)
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Euclid Collaboration *et al.* (incluye a Colodro-Conde, C.; Diaz, J. J.; Gutierrez, C. M.; Tubio, O.; Rebolo, R.; Huertas-Company, M.)[2025A&A...697A...3E](#)
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Euclid Collaboration *et al.* (incluye a Gutierrez, C. M.; Colodro-Conde, C.; Rebolo, R.; Diaz, J. J.; Huertas-Company, M.)[2025A&A...697A...4E](#)
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Acevedo Barroso, J. A. *et al.* (incluye a Colodro-Conde, C.; Rebolo, R.)[2025A&A...697A..14A](#)
- 288.- Euclid: V. The Flagship galaxy mock catalogue: A comprehensive simulation for the Euclid mission**
Euclid Collaboration *et al.* (incluye a Huertas-Company, M.; Colodro-Conde, C.; Rebolo, R.; Balaguera-Antolinez, A.; Diaz, J. J.; Gutierrez, C. M.)[2025A&A...697A...5E](#)
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Sharbaf, Z.; Ferreras, I.; Negri, A.; Angthopo, J.; Dalla Vecchia, C.; Lahav, O.; Somerville, R. S.[2025MNRAS.539.1480S](#)
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Palle, E. *et al.* (incluye a Orell-Miquel, J.; Masseron, T.)[2025A&A...697A..31P](#)

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Spiniello, Chiara et al. (incluye a Ferré-Mateu, Anna)[2025MNRAS.539.1471S](#)
- 293.- Integral field spectroscopy of the planetary nebula NGC 3242 and the puzzling nature of its low-ionization structures**
Konstantinou, L.; Akas, S.; Garcia-Rojas, J.; Bouvis, K.; Gonçalves, D. R.; Monteiro, H.; Boumis, P.; Mari, M. B.; Aleman, I.; Monreal-Ibero, A.[2025A&A...697A.227K](#)
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Rodríguez-Beltrán, P.; Gil, J. M.; Rodríguez, R.; Espinosa-Vivas, G.[2025PhRvE.111e5206R](#)
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Sahai, Raghvendra et al. (incluye a Machado, Arturo)[2025ApJ...985..101S](#)
- 296.- JWST reveals the diversity of nuclear obscuring dust in nearby AGN: nuclear isolation of MIRI/MRS data cubes and continuum spectral fitting**
González-Martín, Omaira et al. (incluye a García-Lorenzo, Begoña; Ramos Almeida, Cristina; Esparza-Arredondo, Donaji; Audibert, Anelise)[2025MNRAS.539.2158G](#)
- 297.- JWST/MIRI Study of the Enigmatic Mid-infrared Rings in the Planetary Nebula NGC 1514**
Ressler, Michael E.; Aller, Alba; Jones, David; Lau, Ryan M.; Miranda, Luis F.; Willacy, Karen[2025AJ....169..236R](#)
- 298.- MaNGA AGN dwarf galaxies (MAD): II. AGN outflows in dwarf galaxies**
Rodríguez Morales, V.; Mezcuá, M.; Domínguez Sánchez, H.; Audibert, A.; Müller-Sánchez, F.; Siudek, M.; Eróstegui, A.[2025A&A...697A.235R](#)
- 299.- Power spectrum of the CODEX clusters**
Lindholm, V.; Finoguenov, A.; Balaguera-Antolínez, A.; Castro, T.[2025A&A...697A..93L](#)
- 300.- Precise radial velocities of giant stars: XVII. Distinguishing planets from intrinsically induced radial velocity signals in evolved stars**
Spaeth, Dane; Reffert, Sabine; Trifonov, Trifon; Kaminski, Adrian; Albrecht, Simon; Grundahl, Frank; Fredslund Andersen, Mads; Quirrenbach, Andreas; Pallé, Pere L.[2025A&A...697A..32S](#)
- 301.- Properties of Cosmic Lithium Isotopes Measured by the Alpha Magnetic Spectrometer**
Aguilar, M. et al. (incluye a García-López, R. J.; Molero, M.; Vázquez Acosta, M.)[2025PhRvL.134t1001A](#)
- 302.- Pushing the boundaries of asteroseismic individual frequency modelling: Unveiling two evolved very low-metallicity red giants**
Larsen, J. R. et al. (incluye a Slumstrup, D.)[2025A&A...697A.153L](#)
- 303.- Quantifying the scale of star formation across the Perseus spiral arm using young clusters around Cas OB5**
Quintana, Alexis L.; Negueruela, Ignacio; Berlanas, Sara R.[2025A&A...697A..47Q](#)
- 304.- Quasar Milli-lensing and Cold Dark Matter (TNG50) Subhaloes. I. Image Splitting**
Mediavilla, E.; Jiménez-Vicente, J.; Heinze, F. M.; Martín Camalich, J.[2025ApJ...984..145M](#)
- 305.- Quiet Sun Ellerman bombs as a possible proxy for reconnection-driven spicules**
Sand, Mats Ola; van der Voort, Luc H. M. Rouppe; Joshi, Jayant; Bose, Souvik; Nóbrega-Siverio, Daniel; Griñón-Marín, Ana Belén[2025A&A...697A.180S](#)

- 306.- Recovering coherent flow structures in active regions using machine learning**
Lennard, Matthew G. et al. (incluye a Asensio Ramos, Andrés; Rempel, Matthias)[2025MNRAS.539.2498L](#)
- 307.- Red giant evolutionary status determination: The complete Kepler catalog**
Vrard, M. et al. (incluye a Mathur, S.)[2025A&A...697A.165V](#)
- 308.- Retrieving day- and nightside atmospheric properties of the ultra-hot Jupiter TOI-2109b: Detection of Fe and CO emission lines and evidence for inefficient heat transport**
Cont, D. et al. (incluye a Pallé, E.)[2025A&A...698A..31C](#)
- 309.- Revisiting the globular clusters of NGC 1052-DF2**
Fahrion, K.; Beasley, M. A.; Gvozdenko, A.; Guerra Arencibia, S.; Jerabkova, T.; Fensch, J.; Emsellem, E.[2025A&A...697A.145F](#)
- 310.- Searching for R-process-enhanced Stars in the LAMOST Survey. II. Two New r-II Stars in the Milky Way Disk**
Xie, Xiao-Jin et al. (incluye a Allende Prieto, Carlos)[2025ApJ...984..176X](#)
- 311.- Signature of spin-down stalling in stellar magnetic activity: The case of the open cluster NGC 6811**
Santos, A. R. G.; Godoy-Rivera, D.; Mathur, S.; Breton, S. N.; García, R. A.; Cunha, M. S.[2025A&A...697A.177S](#)
- 312.- Size and shape of the trans-Neptunian object (470316) 2007 OC10: Comparison with thermal data**
Gómez-Limón, J. M. et al. (incluye a Alarcon, M. R.; Licandro, J.; Serra-Ricart, M.)[2025A&A...697A.157G](#)
- 313.- Structure and Dynamics of the Sun's Interior Revealed by the Helioseismic and Magnetic Imager**
Kosovichev, Alexander G. et al. (incluye a Mathur, Savita)[2025SoPh..300...70K](#)
- 314.- Sub-second optical/near-infrared quasi-periodic oscillations from the black hole X-ray transient Swift J1727.8–1613**
Vincentelli, F. M. et al. (incluye a Shahbaz, T.; Dhillon, V. S.)[2025MNRAS.539.2347V](#)
- 315.- SUNRISE III: Overview of Observatory and Instruments**
Korpi-Lagg, Andreas et al. (incluye a Martínez Pillet, Valentín; Hernández Expósito, David; Quintero Noda, Carlos; Ruiz Cobo, Basilio)[2025SoPh..300...75K](#)
- 316.- The CARMENES search for exoplanets around M dwarfs: Cluster analysis of signals from spectral activity indicators to search for shared periods**
Kemmer, J. et al. (incluye a Béjar, V. J. S.)[2025A&A...697A.225K](#)
- 317.- The Complete Spitzer Survey of Stellar Structure in Galaxies (CS⁴G)**
Sánchez-Alarcón, P. M. et al. (incluye a Knapen, J. H.; Comerón, S.; Román, J.; Falcón-Ramírez, J. M.)[2025A&A...697A..38S](#)
- 318.- The EDGE-CALIFA survey: The effect of active galactic nucleus feedback on the integrated properties of galaxies at different stages of their evolution**
Bazzi, Z.; Colombo, D.; Bigiel, F.; Kalinova, V.; Villanueva, V.; Sanchez, S. F.; Bolatto, A. D.; Wong, T.[2025A&A...697A.149B](#)
- 319.- The Structure, Populations, and Kinematics of the Milky Way Central and Inner Bulge with OGLE, APOGEE, and Gaia Data**
Han, Xiao; Wang, Hai-Feng; Carraro, Giovanni; López-Corredoira, Martín; Ting, Yuan-Sen; Luo, Yang-Ping; Wang, Guan-Yu; Mwludpsg Collaboration[2025ApJ...985...32H](#)
- 320.- The Sunrise Ultraviolet Spectropolarimeter and Imager: Instrument Description**
Feller, Alex et al. (incluye a Martínez Pillet, Valentín)[2025SoPh..300...65F](#)

- 321.- Three new 2+2 quadruple systems with changing inclination**
Zasche, P.; Henzl, Z.; Mašek, M.; Kára, J.; Kučáková, H.; Merc, J.; Uhlař, R. [2025MNRAS.539.1015Z](#)
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Chaturvedi, P. et al. (incluye a Pallé, E.) [2025A&A...697A.169C](#)
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Ruiz Cejudo, Ignacio et al. (incluye a Trujillo, Ignacio; Golini, Giulia; Sedighi, Nafise; Montes, Mireia; Guerra Arencibia, Sergio; Sharbaf, Zahra) [2025A&A...697A..91R](#)
- 324.- Very high-energy gamma-ray detection and long-term multiwavelength view of the flaring blazar B2 1811+31**
Abe, K. et al. (incluye a Barrios-Jiménez, L.; Becerra González, J.; García López, R. J.; Herrera Llorente, J.; López-Oramas, A.; Molero González, M.; Molina, E.; Nievas Rosillo, M.; Vazquez Acosta, M.) [2025A&A...697A.172A](#)
- 325.- A 3D view of dwarf galaxies with Gaia and VLT/FLAMES: II. The Sextans dwarf spheroidal**
Tolstoy, Eline; Battaglia, Giuseppina; Arroyo-Polonio, José María; Brown, Anthony G. A.; van Essen, Thom; Massari, Davide; Skúladóttir, Ása; Irwin, Michael J.; Taibi, Salvatore; Pritchard, John [2025A&A...698A..53T](#)
- 326.- A super-Chandrasekhar mass type Ia supernova progenitor at 49 pc set to detonate in 23 Gyr**
Munday, James et al. (incluye a Jones, David) [2025NatAs...9..872M](#)
- 327.- A Swarm of WASP Planets: Nine Giant Planets Identified by the WASP Survey**
Schanche, N. et al. (incluye a Barkaoui, K.; Parviainen, H.; Fukui, A.; Murgas, F.; Narita, N.; Palle, E.) [2025AJ....169..334S](#)
- 328.- A targeted search for binary white dwarf pulsars using Gaia and WISE**
Pelisoli, Ingrid et al. (incluye a Dhillon, V. S.) [2025MNRAS.540..821P](#)
- 329.- A transiting multiplanet system in the 61 Myr old association Theia 116**
Vach, Sydney et al. (incluye a Barkaoui, Khalid; Narita, Norio; Fukui, Akihiko) [2025MNRAS.540..806V](#)
- 330.- A transiting rocky super-Earth and a non-transiting sub-Neptune orbiting the M dwarf TOI-771 Lacedelli, G. et al. (incluye a Pallé, E.; Murgas, F.; Orell-Miquel, J.; Barkaoui, K.; Geraldía-González, S.)** [2025A&A...698A.223L](#)
- 331.- Analysis of optical spectroscopy and photometry of the type I X-ray bursting system UW CrB**
Kennedy, Mark R. et al. (incluye a Dhillon, V. S.; Mata-Sanchez, D.; Muñoz-Darias, T.) [2025OJAp....8E..71K](#)
- 332.- ASASSN-14dx: a cataclysmic variable harbouring a massive pulsating white dwarf**
Hakala, Pasi; Pelisoli, Ingrid; Gänsicke, Boris T.; Rodríguez-Gil, Pablo; Marsh, Thomas R.; Breedt, Elmé; Thorstensen, John R.; Pala, Anna F. [2025MNRAS.540..838H](#)
- 333.- Asteroid sizes determined with thermophysical model and stellar occultations**
Choukroun, A. et al. (incluye a Geier, S.; Licandro, J.; Nadolny, J.) [2025A&A...698A.298C](#)
- 334.- Bar ages derived for the first time in nearby galaxies: Insights into secular evolution from the TIMER sample**
de Sá-Freitas, Camila et al. (incluye a de Lorenzo-Cáceres, Adriana; Falcón-Barroso, Jesús; Mendez-Abreu, Jairo) [2025A&A...698A...5D](#)
- 335.- Binarity at LOW Metallicity (BLOeM): Enhanced multiplicity of early B-type dwarfs and giants at $Z = 0.2 Z_{\odot}$**
Villaseñor, J. I. et al. (incluye a Lennon, D. J.; Holgado, G.; Simón-Díaz, S.) [2025A&A...698A..41V](#)
- 336.- Binarity at LOW Metallicity (BLOeM): Multiplicity of early B-type supergiants in the Small Magellanic Cloud**
Britavskiy, N. et al. (incluye a Lennon, D. J.; Berlanas, S. R.; Holgado, G.; Simón-Díaz, S.) [2025A&A...698A..40B](#)

- 337.- Binarity at LOW Metallicity (BLOeM): The multiplicity properties and evolution of BAF-type supergiants**
Patrick, L. R. et al. (incluye a Lennon, D. J.)[2025A&A...698A..39P](#)
- 338.- Calibrating HMI Magnetograms Using an End-to-end Magnetograph Model**
Petrie, Gordon J. D.; Blanco Rodríguez, Julián; Martínez Pillet, Valentín; Uitenbroek, Han; Scherrer, Philip H.[2025ApJS..278...55P](#)
- 339.- Characterisation of local halo building blocks: Thamnos and Sequoia**
Dodd, Emma; Ruiz-Lara, Tomás; Helmi, Amina; Gallart, Carme; Callingham, Thomas M.; Cassisi, Santi; Fernández-Alvar, Emma; Surot, Francisco[2025A&A...698A.277D](#)
- 340.- Constraints on primordial non-Gaussianity from the cross-correlation of DESI luminous red galaxies and Planck CMB lensing**
Bermejo-Climent, J. R. et al.[2025A&A...698A.177B](#)
- 341.- Coordinated Space- and Ground-based Monitoring of Accretion Bursts in a Protoplanetary Disk: Establishing Mid-infrared Hydrogen Lines as Accretion Diagnostics for JWST/MIRI**
Tofflemire, Benjamin M. et al. (incluye a Fiorellino, Eleonora)[2025ApJ...985..224T](#)
- 342.- Cosmology with One Galaxy: Autoencoding the Galaxy Properties Manifold**
Lue, Amanda; Genel, Shy; Huertas-Company, Marc; Villaescusa-Navarro, Francisco; Ho, Matthew[2025ApJ...986..133L](#)
- 343.- Detection of the Geminga pulsar at energies down to 20 GeV with the LST-1 of CTAO**
Abe, K. et al. (incluye a Arnesen, T. T. H.; Barrios Jiménez, L.; Becerra González, J.; García López, R.; Herrera Llorente, J.; López-Oramas, A.; Molero Gonzalez, M.; Molina, E.; Nieves Rosillo, M.; Vázquez Acosta, M.)[2025A&A...698A.283A](#)
- 344.- Euclid preparation: LXX. Forecasting detection limits for intracluster light in the Euclid Wide Survey**
Euclid Collaboration et al. (incluye a Montes, M.; Colodro-Conde, C.; Diaz, J. J.; Gutierrez, C. M.)[2025A&A...698A..14E](#)
- 345.- Euclid preparation: LXXI. Simulations and nonlinearities beyond Λ CDM. 3. Constraints on $f(R)$ models from the photometric primary probes**
Euclid Collaboration et al. (incluye a Colodro-Conde, C.; Diaz, J. J.; Gutierrez, C. M.)[2025A&A...698A.233E](#)
- 346.- Euclid: Early Release Observations: The intracluster light of Abell 2390**
Ellien, A. et al. (incluye a Montes, M.; Colodro-Conde, C.; Rebolo, R.)[2025A&A...698A.134E](#)
- 347.- Exploring the halo-galaxy connection with probabilistic approaches**
Rodrigues, Natália V. N.; de Santi, Natalí S. M.; Abramo, Raul; Montero-Dorta, Antonio D.[2025A&A...698A...3R](#)
- 348.- Full-Shape analysis of the power spectrum and bispectrum of DESI DR1 LRG and QSO samples**
Novell-Masot, S. et al. (incluye a Carnero Rosell, A.)[2025JCAP...06..005N](#)
- 349.- Galactic transient sources with the Cherenkov Telescope Array Observatory**
Abe, K. et al. (incluye a Arnesen, T. T. H.; Barrios-Jiménez, L.; Becerra González, J.; López-Oramas, A.; Molero, M.; Molina, E.; Nieves Rosillo, M.; Vázquez Acosta, M.)[2025MNRAS.540..205A](#)
- 350.- Galaxy transformation across the cosmic web: Evolution of stellar colours and star formation rates in filaments**
Zarattini, S.; Aguerri, J. A. L.[2025A&A...698A.196Z](#)
- 351.- Generalized $T_e([O III])$ – $T_e(He I)$ Discrepancies in Ionized Nebulae: Possible Evidence of Case B Deviations and Temperature Inhomogeneities**
Méndez-Delgado, J. E. et al. (incluye a Esteban, C.; García-Rojas, J.; Orte-García, M.)[2025ApJ...986...74M](#)

- 352.- gr8stars – I. A homogeneous spectroscopic study of bright FGKM dwarfs and a public library of their high-resolution spectra**
Freckelton, Alix Violet *et al.* (incluye a González Hernández, J. I.; Suárez Mascareño, A.)[2025MNRAS.540.1786F](#)
- 353.- Ground-breaking exoplanet science with the ANDES spectrograph at the ELT**
Palle, Enric *et al.* (incluye a Parviainen, Hannu; González Hernández, Jonay I.; Suárez Mascareño, Alejandro)[2025ExA....59...29P](#)
- 354.- Helioseismic Signature of Parker Fragmentation of Magnetic Flux beneath Sunspot Photospheres**
Broock, Elena G.; Cifuentes, Angel Mart; Donea, Alina-Catalina; Lindsey, Charles[2025ApJ...986L..20B](#)
- 355.- High-significance detection of correlation between the unresolved gamma-ray background and the large-scale cosmic structure**
Thakore, B. *et al.* (incluye a Carnero Rosell, A.)[2025JCAP...06..037T](#)
- 356.- HST/WFC3 constraints on the abundances of OH and FeH in the atmosphere of the ultra-hot Neptune LTT-9779 b**
Zhou, Li *et al.* (incluye a Jiang, Chengzi; Pallé, Enric)[2025MNRAS.540..650Z](#)
- 357.- Improving galaxy cluster selection with the outskirts stellar mass of galaxies**
Kwiecien, Matthew *et al.* (incluye a Carnero Rosell, A.)[2025PhRvD.111I3524K](#)
- 358.- Investigating episodic mass loss in evolved massive stars: III. Spectroscopy of dusty massive stars in three northern galaxies**
de Wit, S.; Muñoz-Sánchez, G.; Maravelias, G.; Bonanos, A. Z.; Antoniadis, K.; García-Álvarez, D.; Britavskiy, N.; Ruiz, A.; Philippopoulou, A.[2025A&A...698A.279D](#)
- 359.- Is velocity dispersion the major driver of stellar population properties over sub-galaxy scales? An SDSS MaNGA IFU study**
Ferreras, I.; Trevisan, M.; Lahav, O.; de Carvalho, R. R.; Silk, J.[2025MNRAS.540.1069F](#)
- 360.- JWST MIRI reveals the diversity of nuclear mid-infrared spectra of nearby type 2 quasars**
Ramos Almeida, C. *et al.* (incluye a Audibert, A.; Cezar, P. H.; Acosta-Pulido, J. A.)[2025A&A...698A.194R](#)
- 361.- JWST observations of the Ring Nebula (NGC 6720) – II. PAH emission**
Clark, Nicholas *et al.* (incluye a Manchado, Arturo)[2025MNRAS.540.1984C](#)
- 362.- LIGHTS. The extended point spread functions of the LIGHTS survey at the LBT**
Sedighi, Nafise *et al.* (incluye a Sharbaf, Zahra; Trujillo, Ignacio; Golini, Giulia; Montes, Mireia; Román, Javier)[2025OJAp....8E..73S](#)
- 363.- Luminosity and Stellar Mass Functions of Faint Photometric Satellites around Spectroscopic Central Galaxies from DESI Year-1 Bright Galaxy Survey**
Wang, Wenting *et al.* (incluye a Siudek, Malgorzata; Prada, Francisco)[2025ApJ...986..218W](#)
- 364.- Monitoring of asteroids in cometary orbits and activated asteroids through archival images and new observations**
Martino, S. *et al.* (incluye a Licandro, J.; Carnero Rosell, A.)[2025A&A...698A.117M](#)
- 365.- Multi-wavelength spectropolarimetric observations of AR13724 performed by GRIS**
Quintero Noda, C. *et al.* (incluye a Trelles Arjona, J. C.; del Pino Alemán, T.; Martínez González, M. J.; Felipe, T.; Regalado Olivares, S.; Gómez González, P.; Bienes, J.; Quintero Nehr Korn, J.; Matta-Gómez, A.; Barreto, M.; Collados, M.)[2025A&A...698A..33Q](#)
- 366.- Multiwavelength study of OT 081: broadband modelling of a transitional blazar**
Abe, H. *et al.* (incluye a Acciari, V. A.; Colombo, E.; García López, R. J.; Herrera, J.; López-Oramas, A.; Molina, E.; Njoh Ekoume, T.; Otero-Santos, J.; Becerra González, J.)[2025MNRAS.540..364A](#)

- 367.- OGLE-2015-BLG-1609Lb: A sub-Jovian planet orbiting a low-mass stellar or brown dwarf host**
Mróz, M. J. *et al.* (incluye a Fukui, A.)[2025A&A...698A.126M](#)
- 368.- On beam characterization of ground-based CMB radio telescopes using UAV-mounted sources: application to the QUIJOTE TFGI and plans for LSPE-Strip**
Paonessa, Fabio *et al.* (incluye a Alonso-Arias, Paz; Santos, Ricardo Tanausú Génova; Hoyland, Roger; López-Caraballo, Carlos Hugo; Rubiño-Martín, José Alberto)[2025JInst..20P6057P](#)
- 369.- Optical constraints on the coldest metal-poor population**
Zhang, J. -Y. *et al.* (incluye a Lodieu, N.; Martín, E. L.; Béjar, V. J. S.; Shahbaz, T.; Pavlenko, Ya. V.; Rebolo, R.; Sedighi, N.)[2025A&A...698A.141Z](#)
- 370.- Photometry of Outer Solar System Objects from the Dark Energy Survey. II. A Joint Analysis of Trans-Neptunian Absolute Magnitudes, Colors, Light Curves and Dynamics**
Bernardinelli, Pedro H. *et al.* (incluye a Carnero Rosell, A.)[2025AJ....169..305B](#)
- 371.- Polarization-correction device with liquid crystals for quantum-key-distribution satellite systems**
Jimenez-Girela, A.; Merino-Pérez, D.; Campos-Jara, A.; Socas Negrín, J.; Parejo, P. Garcia; Álvarez-Herrero, A.[2025PhRvP..23f4070J](#)
- 372.- Quiet Sun Magnetism from ViSP Data Multiline Inversions Around 630.1 nm**
Trelles Arjona, J. C.[2025ApJ...986..169T](#)
- 373.- Relatively young thick disks in star-forming late-type galaxies**
Sattler, Natascha; Pinna, Francesca; Comerón, Sebastien; Martig, Marie; Falcón-Barroso, Jesus; Martín-Navarro, Ignacio; Neumayer, Nadine[2025A&A...698A.235S](#)
- 374.- Rendezvous in CAVITY: Kinematics and gas properties of an isolated dwarf-dwarf merging pair in a cosmic void region**
Bidaran, Bahar *et al.* (incluye a Ferré-Mateu, Anna; Falcón-Barroso, Jesús)[2025A&A...698A.260B](#)
- 375.- Revisiting the Li Abundances of Stars with and without Detected Planets from High-resolution Spectroscopy**
Qin, Jinxiao *et al.* (incluye a Liu, Shuai)[2025ApJ...986..178Q](#)
- 376.- Small-scale dynamic phenomena associated with interacting fan-spine topologies: Quiet-Sun Ellerman bombs, UV brightenings, and chromospheric inverted-Y-shaped jets**
Bhatnagar, Aditi; Prasad, Avijeet; Nóbrega-Siverio, Daniel; van der Voort, Luc Rouppe; Joshi, Jayant[2025A&A...698A.174B](#)
- 377.- Systematic Reanalysis of KMTNet Microlensing Events. II. Two New Planets in Giant-source Events**
Yang, Hongjing *et al.* (incluye a Fukui, Akihiko)[2025AJ....169..295Y](#)
- 378.- The eccentricity distribution of warm sub-Saturns in TESS**
Fairnington, Tyler R. *et al.* (incluye a Fukui, Akihiko; Narita, Norio; Esparza-Borges, Emma; Murgas, Felipe; Pallé, Enric; Hannu, Parviainen)[2025MNRAS.540.1144F](#)
- 379.- The Hubble Missing Globular Cluster Survey: I. Survey overview and the first precise age estimate for ESO452-11 and 2MASS-GC01**
Massari, D. *et al.* (incluye a Gallart, C.; Monelli, M.)[2025A&A...698A.197M](#)
- 380.- The JCMT BISTRO-3 Survey: Variation of Magnetic Field Orientations on Parsec and Subparsec Scales in the Massive Star-forming Region G28.34+0.06**
Hwang, Jihye *et al.* (incluye a Poidevin, Frédéric)[2025ApJ...985..222H](#)
- 381.- The local group symbiotic star population and its tenuous link with type Ia supernovae**
Laversveiler, Marco; Gonçalves, Denise R.; Rocha-Pinto, Helio J.; Merc, Jaroslav[2025A&A...698A.155L](#)

- 382.- The PLATO mission**
Rauer, Heike *et al.* (incluye a Allende Prieto, Carlos; Alonso Sobrino, Roi; Beck, Paul G.; Cabrero Gomez, Juan-Francisco; Deeg, Hans; del Burgo, Carlos; Díaz-García, José-Javier; García-Vázquez, Hugo; González Hernández, Jonay Isai; Jimenez Mancebo, Antonio José; Mathur, Savita; Narita, Norio; Palle, Enric; Parviainen, Hannu; Passegger, Vera Maria; Villaver, Eva)[2025ExA....59...26R](#)
- 383.- The Pristine Dwarf-Galaxy survey: VI. A VLT/FLAMES spectroscopic study of the dwarf galaxy Boötes II**
Longeard, Nicolas; Jablonka, Pascale; Battaglia, Giuseppina; Malhan, Khyati; Martin, Nicolas F.; Navarro, Julio F.; Sestito, Federico[2025A&A...698A..63L](#)
- 384.- The Pristine survey: XXVII. The extremely metal-poor stream C-19 stretches over more than 100 degrees**
Yuan, Zhen *et al.* (incluye a González Hernández, Jonay I.)[2025A&A...698A..82Y](#)
- 385.- The properties of the obscuring material of a sample of active galactic nuclei from mid-IR and X-ray simultaneous fitting**
Esparza-Arredondo, D.; González-Martín, O.; Dultzin, D.; Ramos Almeida, C.; García-Lorenzo, B.; Alonso-Herrero, A.; García-Bernete, I.; Masegosa, J.[2025A&A...698A...4E](#)
- 386.- The Rise of Faint, Red Active Galactic Nuclei at $z > 4$: A Sample of Little Red Dots in the JWST Extragalactic Legacy Fields**
Kocevski, Dale D. *et al.* (incluye a Huertas-Company, Marc)[2025ApJ...986..126K](#)
- 387.- Tidally Heated Sub-Neptunes, Refined Planetary Compositions, and Confirmation of a Third Planet in the TOI-1266 System**
Greklek-McKeon, Michael *et al.* (incluye a Fukui, Akihiko; Narita, Norio; Fernández-Rodríguez, Gareb)[2025AJ....169..292G](#)
- 388.- TOI-6478 b: a cold underdense Neptune transiting a fully convective M dwarf from the thick disc**
Scott, Madison G. *et al.* (incluye a Barkaoui, Khalid; Narita, Norio)[2025MNRAS.540.1909S](#)
- 389.- Transverse oscillations in 3D along Ca II K bright fibrils in the solar chromosphere**
Kianfar, Sepideh; Leenaarts, Jorrit; Esteban Pozuelo, Sara; da Silva Santos, João M.; de la Cruz Rodríguez, Jaime; Danilovic, Sanja[2025A&A...698A.124K](#)
- 390.- V4141 Sgr: Outflows and repeated outbursts**
Merc, Jaroslav; Mikołajewska, Joanna; Petit, Thomas; Monard, Berto; Charbonnel, Stéphane; Garde, Olivier; Le Dû, Pascal; Mulato, Lionel; Kojima, Tadashi[2025A&A...698L...4M](#)
- 391.- Wide Binary Orbits Are Preferentially Aligned with the Orbits of Small Planets, but Probably Not Hot Jupiters**
Christian, Sam *et al.* (incluye a Murgas, Felipe)[2025AJ....169..308C](#)
- 392.- Year six photometric measurements of known Trans-Neptunian Objects and Centaurs by the Dark Energy Survey**
Ferreira, F. S. *et al.* (incluye a Carnero Rosell, A.)[2025MNRAS.540..460F](#)
- 393.- A Comparative Study of the Ground State Transitions of CO and C I as Molecular Gas Tracers at High Redshift**
Frias Castillo, Marta *et al.* (incluye a Dannerbauer, Helmut)[2025ApJ...987..158F](#)
- 394.- A Dark, Bare Rock for TOI-1685 b from a JWST NIRSpec G395H Phase Curve**
Luque, Rafael *et al.* (incluye a Pallé, Enric)[2025AJ....170...49L](#)
- 395.- A Gravitational-wave-detectable Candidate Type Ia Supernova Progenitor**
Chickles, Emma T. *et al.* (incluye a Dhillon, Vik S.)[2025ApJ...987..206C](#)
- 396.- A non-axisymmetric potential for the Milky Way disk**
Khalil, Y. R. *et al.* (incluye a Thomas, G. F.)[2025A&A...699A.263K](#)

- 397.- 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](#)
- 398.- 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](#)
- 399.- A transiting giant planet in orbit around a 0.2-solar-mass host star**
Bryant, Edward M. *et al.* (incluye a **Barkaoui, Khalid; Narita, Norio; Palle, Enric; Fernández-Rodríguez, Gareb; Fukui, Akihiko; Murgas, Felipe; Parviainen, Hannu**) [2025NatAs...9.1031B](#)
- 400.- 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](#)
- 401.- 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](#)
- 402.- 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](#)
- 403.- Assessment of the AIUla Manara astronomical site in Saudi Arabia using ECMWF ERA5 reanalysis data**
Lombardi, Gianluca; Fildes, Gary; Cuevas, Omar; Alrefay, Thamer Y.; Almalik, Naif [2025JATIS..11c4005L](#)
- 404.- 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](#)
- 405.- 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](#)
- 406.- 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](#)
- 407.- 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](#)
- 408.- Chemo-dynamics of the stellar component of the Sculptor dwarf galaxy: II. Dynamical properties and dark matter halo density**
Arroyo-Polonio, José María; Pascale, Raffaele; **Battaglia, Giuseppina; Thomas, Guillaume F.**; Nipoti, Carlo; Vasiliev, Eugene; Tolstoy, Eline [2025A&A...699A.347A](#)
- 409.- CHEX-MATE: Exploring the kinematical properties of Planck galaxy clusters**
Pizzuti, Lorenzo *et al.* (incluye a **Barrena, Rafael; Streblyanska, Alina**) [2025A&A...699A..88P](#)
- 410.- Coronal Magnetometry with EUV Permitted Lines**
Shchukina, Nataliia G.; Trujillo Bueno, Javier; Hebbur Dayananda, Supriya; Manso Sainz, Rafael; **Sukhorukov, Andrii V.** [2025ApJ...988...33S](#)
- 411.- 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](#)

- 412.- 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](#)
- 413.- DESI 2024 II: sample definitions, characteristics, and two-point clustering statistics**
Adame, A. G. et al. (incluye a Carnero Rosell, A.; Kitaura, F. -S.)[2025JCAP...07..017A](#)
- 414.- 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](#)
- 415.- 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](#)
- 416.- EP240801a/XRF 240801B: An X-Ray Flash Detected by the Einstein Probe and the Implications of Its Multiband Afterglow**
Jiang, Shuai-Qing et al. (incluye a Mata Sánchez, Daniel; Torres, Manuel A. P.)[2025ApJ...988L..34J](#)
- 417.- 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](#)
- 418.- Finding White Dwarfs' Hidden Companions Using an Unsupervised Machine Learning Technique**
Pérez-Couto, Xabier; Manteiga, Minia; Villaver, Eva[2025ApJ...988...51P](#)
- 419.- Generalized Fluid Models of the Braginskii Type. II. The Boltzmann Operator**
Hunana, P.[2025ApJS..279....6H](#)
- 420.- 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](#)
- 421.- 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](#)
- 422.- How to prepare competitive proposals and job applications**
Knapen, Johan H.; Boffin, Henri M. J.; Chamba, Nushkia; Chamba, Natashya[2025NatAs...9..951K](#)
- 423.- 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](#)
- 424.- 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](#)
- 425.- 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](#)
- 426.- 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](#)
- 427.- LiteBIRD science goals and forecasts: constraining isotropic cosmic birefringence**
de la Hoz, E. et al. (incluye a Adak, D.; Génova-Santos, R. T.; Rubiño-Martín, J. A.)[2025JCAP...07..083D](#)

- 428.- MaNGA AGN dwarf galaxies (MAD): III. The role of mergers and environment in active galactic nucleus activity in dwarf galaxies**
Eróstegui, A.; Mezcua, M.; Siudek, M.; Domínguez Sánchez, H.; Rodríguez Morales, V. [2025A&A...699A.330E](#)
- 429.- Merging plasmoids and nanojet-like ejections in a coronal current sheet**
Sen, Samrat; Moreno-Insertis, Fernando [2025A&A...699A.106S](#)
- 430.- 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](#)
- 431.- 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](#)
- 432.- 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](#)
- 433.- 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](#)
- 434.- 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](#)
- 435.- 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](#)
- 436.- P-CORONA: A New Tool for Calculating the Intensity and Polarization of Coronal Lines in 3D Models of the Solar Corona**
Supriya, Hebbur Dayananda; de Vicente, Ángel; del Pino Alemán, Tanausú; Trujillo Bueno, Javier; Shchukina, Nataliia G. [2025ApJ...987...39S](#)
- 437.- 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](#)
- 438.- Radio Continuum Studies of Ultracompact and Short Orbital Period X-Ray Binaries**
Dage, Kristen C. *et al.* (incluye a Armas Padilla, Montserrat) [2025ApJ...988..131D](#)
- 439.- 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-Montegudo, C.) [2025A&A...699A..45T](#)
- 440.- The 2023 Outburst of the Gaia Alerted EXor Gaia23bab**
Nagy, Zsófia *et al.* (incluye a Fiorellino, Eleonora) [2025ApJ...987...37N](#)
- 441.- 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](#)
- 442.- 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](#)
- 443.- 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](#)

- 444.- The EDGE-CALIFA Survey: An integral field unit-based integrated molecular gas database for galaxy evolution studies in the Local Universe**
Colombo, D. *et al.* (incluye a Sanchez, S. F.)[2025A&A...699A.366C](#)
- 445.- The EDGE-CALIFA survey: Star formation relationships for galaxies at different stages of their evolution**
Colombo, D. *et al.* (incluye a Sanchez, S. F.)[2025A&A...699A.367C](#)
- 446.- 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](#)
- 447.- The Hera Space Mission in the Context of Small Near-Earth Asteroid Missions in the Past, Present and Future**
Michel, Patrick *et al.* (incluye a de León, Julia)[2025SSRv..221...70M](#)
- 448.- 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](#)
- 449.- 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](#)
- 450.- 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](#)
- 451.- 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](#)
- 452.- 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](#)
- 453.- 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](#)
- 454.- 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](#)
- 455.- TOI-2407 b: a warm Neptune in the desert**
Janó Muñoz, C. *et al.* (incluye a Barkaoui, K.)[2025MNRAS.541..630J](#)
- 456.- 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](#)
- 457.- Two neighbours of the ultra-short-period Earth-sized planet K2-157 b in the warm Neptunian savanna**
Castro-González, A. *et al.* (incluye a González Hernández, J. I.; Palle, E.; Suárez Mascareño, A.)[2025A&A...699A.344C](#)
- 458.- A comprehensive look at PUDG-R21: stellar population and kinematics of a globular cluster-rich ultra-diffuse galaxy in the Perseus Cluster**
Levitskiy, Arsen; Forbes, Duncan A.; Gannon, Jonah S.; Ferré-Mateu, Anna; Romanowsky, Aaron J.; Brodie, Jean P.; Couch, Warrick J.; Haacke, Lydia[2025MNRAS.541.2761L](#)

- 459.- A comprehensive study on radial velocity signals using ESPRESSO: Pushing precision to the 10 cm/s level**
Figueira, P. et al. (incluye a González-Hernández, J. I.; Rebolo, R.; Suárez Mascareño, A.)[2025A&A...700A.174F](#)
- 460.- A H α metric for identifying dormant black holes in X-ray transients**
Casares, J.; Torres, M. A. P.; Navarro Umpiérrez, S.[2025A&A...700A..29C](#)
- 461.- A Multi-wavelength Characterization of the 2023 Outburst of MAXI J1807+132: Manifestations of Disk Instability and Jet Emission**
Rout, Sandeep K. et al. (incluye a Armas Padilla, Montserrat; Muñoz-Darias, Teo)[2025ApJ...988..153R](#)
- 462.- A systematic bias in template-based radial velocity extraction algorithms**
Silva, A. M. et al. (incluye a González Hernández, J. I.; Palle, E.; Suárez Mascareño, A.)[2025A&A...700A..93S](#)
- 463.- A Systematic Search for MeV–GeV Pulsar Wind Nebulae without Gamma-Ray Detected Pulsars**
Fermi-LAT Collaboration et al. (incluye a Becerra Gonzalez, J.)[2025ApJ...989..110F](#)
- 464.- Abundances of P, S, and K in 58 bulge spheroid stars from APOGEE**
Barbuy, B. et al. (incluye a Masseron, T.; Brauner, M.; García-Hernández, D. A.; Queiroz, A. B. A.)[2025A&A...700A.184B](#)
- 465.- Accelerated quenching and chemical enhancement of massive galaxies in a $z \approx 4$ gas-rich halo**
Pérez-González, Pablo G. et al. (incluye a Martín-Navarro, Ignacio)[2025NatAs...9.1240P](#)
- 466.- Analysing quasar microlensing light curves with machine learning**
Jiménez-Vicente, J.; Mediavilla, E.[2025MNRAS.541.1264J](#)
- 467.- Are Gas-rich Ultra-diffuse Galaxies and Field Dwarfs Distinct?**
Motiwala, Khadeejah; Karunakaran, Ananthan; Spekkens, Kristine; Arora, Nikhil; Di Cintio, Arianna; Wright, Anna C.; Zaritsky, Dennis; Macciò, Andrea V.[2025ApJ...989...86M](#)
- 468.- Assessing interstellar comet 3I/ATLAS with the 10.4 m Gran Telescopio Canarias and the Two-meter Twin Telescope**
de la Fuente Marcos, R. et al. (incluye a Alarcon, M. R.; Licandro, J.; Serra-Ricart, M.; de León, J.; Lombardi, G.; Cabrera-Lavers, A.; Guerra Arencibia, S.; Ruiz Cejudo, I.)[2025A&A...700L...9D](#)
- 469.- Asteroseismology of the G8 subgiant β Aquilae with SONG-Tenerife, SONG-Australia and TESS**
Kjeldsen, Hans et al. (incluye a Pallé, Pere L.; Simon-Diaz, Sergio)[2025A&A...700A..39K](#)
- 470.- Beyond traditional diagnostics: Identifying active galactic nuclei using spectral energy distribution fitting in DESI data**
Siudek, M. et al.[2025A&A...700A.209S](#)
- 471.- Blind search for activity-sensitive lines in the near-infrared using HARPS and NIRPS observations of Proxima and Gl 581**
Gomes da Silva, João et al. (incluye a Suárez Mascareño, Alejandro; Nari, Nicola; González Hernández, Jonay I.; Gracia Témich, Félix; Passegger, Vera M.; Rasilla, José Luis; Rebolo, Rafael; Stefanov, Atanas K.)[2025A&A...700A.177G](#)
- 472.- Characterizing the outer disk of extended-UV galaxies in the optical domain with deep surveys**
Bernaud, E.; Boissier, S.; Junais; Małek, K.; Hugot, E.; Galaz, G.[2025A&A...700A..56B](#)

- 473.- Chemo-dynamics of the stellar component of the Sculptor dwarf galaxy: I. Observed properties (Corrigendum)**
Arroyo-Polonio, José María; Battaglia, Giuseppina; Thomas, Guillaume F.; Pascale, Raffaele; Tolstoy, Eline; Nipoti, Carlo [2025A&A...700C...5A](#)
- 474.- CO(1–0) imaging reveals 10-kiloparsec molecular gas reservoirs around star-forming galaxies at high redshift**
Rybak, M. *et al.* (incluye a Dannerbauer, H.) [2025A&A...700A.278R](#)
- 475.- Comparing the DES-SN5YR and Pantheon+ SN cosmology analyses: investigation based on 'evolving dark energy or supernovae systematics'?**
Vincenzi, M. *et al.* (incluye a Carnero Rosell, A.) [2025MNRAS.541.2585V](#)
- 476.- Deep Extragalactic Visible Legacy Survey (DEVILS): satellite quenching at intermediate redshift**
Davies, L. J. M.; Fuentealba-Fuentes, M. F.; Wright, R. J.; Bravo, M.; Wagh, S.; Siudek, M. [2025MNRAS.541.3220D](#)
- 477.- Deep Needlet: a CNN based full sky component separation method in Needlet space**
Adak, Debabrata [2025JCAP...08..058A](#)
- 478.- Deep survey of millimeter radio recombination lines toward the planetary nebulae IC 418 and NGC 7027**
Huertas-Roldán, T.; Alcolea, J.; García-Hernández, D. A.; Tafoya, D.; Fonfría, J. P.; Díaz-Luis, J. J.; Manchado, A.; Bujarrabal, V.; Barzaga, R.; Gómez-Muñoz, M. A. [2025A&A...700A.194H](#)
- 479.- Detection of circumstellar disks around nearby young brown dwarf candidates**
Phan-Bao, N.; Bessell, M. S.; Martín, E. L. [2025A&A...700A.153P](#)
- 480.- Discovery of a transiting hot water-world candidate orbiting Ross 176 with TESS and CARMENES**
Geraldía-González, S. *et al.* (incluye a Orell-Miquel, J.; Pallé, E.; Murgas, F.; Lacedelli, G.; Béjar, V. J. S.; Calatayud-Borras, Y.; Fernández-Rodríguez, G.; Fukui, A.; Lodieu, N.; Narita, N.; Parviainen, H.) [2025A&A...700A.216G](#)
- 481.- 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](#)
- 482.- Diving into the planetary system of Proxima with NIRPS: Breaking the metre per second barrier in the infrared**
Suárez Mascareño, Alejandro *et al.* (incluye a González Hernández, Jonay I.; Stefanov, Atanas K.; Rebolo, Rafael; Gracia Térech, Félix; Nari, Nicola; Passegger, Vera M.; Rasilla, José Luis) [2025A&A...700A..11S](#)
- 483.- E-INSPIRE – I. Bridging the gap with the local Universe: stellar population of a statistical sample of ultra-compact massive galaxies at $z < 0.3$**
Mills, John *et al.* (incluye a Benedetti, João P. V.; Ferré-Mateu, Anna) [2025MNRAS.541.2440M](#)
- 484.- 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; Palte, Enric) [2025AJ....170...68V](#)
- 485.- Euclid preparation: LXXII. Three-dimensional galaxy clustering in configuration space: Two-point correlation function estimation**
Euclid Collaboration *et al.* (incluye a Colodro-Conde, C.; Balaguera-Antolinez, A.; Gutierrez, C. M.) [2025A&A...700A..78E](#)
- 486.- Euclid: Early Release Observations of diffuse stellar structures and globular clusters as probes of the mass assembly of galaxies in the Dorado group**
Urbano, M. *et al.* (incluye a Colodro-Conde, C.) [2025A&A...700A.104U](#)

- 487.- Exploring the most extreme gamma-ray blazars using broadband spectral energy distributions**
Láinez, M.; Nievas-Rosillo, M.; Domínguez, A.; Contreras, J. L.; Becerra González, J.; Dinesh, A.; Paliya, V. S. [2025A&A...700A.229L](#)
- 488.- Extragalactic Archaeology: The Assembly History of Galaxies from Dynamical and Stellar Population Models**
van de Ven, Glenn; Falcón-Barroso, Jesús; Lyubenova, Mariya [2025ARA&A..63..259V](#)
- 489.- Extreme cloud collisions in nearby barred galaxies**
Kolcu, Tutku *et al.* (incluye a Pinna, Francesca) [2025MNRAS.541.3799K](#)
- 490.- Geometric albedo of WASP-12 b and WASP-76 b in the CHEOPS and TESS bandpasses (Corrigendum)**
Cubillos, P. E. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.) [2025A&A...700C...1C](#)
- 491.- GRB 221009A: Observations with LST-1 of CTAO and Implications for Structured Jets in Long Gamma-Ray Bursts**
Abe, K. *et al.* (incluye a Arnesen, T. T. H.; Barrios Jiménez, L.; Becerra González, J.; Frías García-Lago, F.; García López, R.; Herrera Llorente, J.; López-Oramas, A.; Molero Gonzalez, M.; Molina, E.; Nievas Rosillo, M.; Vázquez Acosta, M.) [2025ApJ...988L..42A](#)
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- 494.- Intra-cluster light as a dynamical clock for galaxy clusters: Insights from the MAGNETICUM, IllustrisTNG, Hydrangea, and Horizon-AGN simulations**
Kimmig, Lucas C. *et al.* (incluye a Knapen, Johan H.) [2025A&A...700A..95K](#)
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Chung, Sun-Ju *et al.* (incluye a Fukui, Akihiko) [2025AJ....170...75C](#)
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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](#)
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Acharyya, A. et al. (incluye a Becerra Gonzalez, J.)[2025ApJ...989L..16A](#)
- 506.- Red supergiant stars in binary systems: II. Confirmation of B-type companions of red supergiants in the Small Magellanic Cloud using Hubble ultraviolet spectroscopy**
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Panetier, E.; García, R. A.; Breton, S. N.; Jiménez, A.; Foglizzo, T.[2025A&A...700A.236P](#)
- 508.- 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](#)
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Grandis, S. et al. (incluye a Carnero Rosell, A.)[2025A&A...700A..15G](#)
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Morelli, L. et al. (incluye a Méndez-Abreu, J.; Aguerri, J. A. L.)[2025A&A...700A.270M](#)
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Alsina Ballester, E.; Nóbrega-Siverio, D.; Moreno-Insertis, F.; Supriya, H. D.[2025A&A...700A.204A](#)
- 512.- Structures and Properties of Fan-Shaped Jets: H α Dark Blobs and Transparent Regions**
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Turchi, A. et al. (incluye a Thomas, G.)[2025A&A...700A.195T](#)
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De Wilde, M. et al. (incluye a Nóbrega-Siverio, D.)[2025A&A...700A.275D](#)
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Abe, S. et al. (incluye a Arnesen, T. T. H.; Barrios-Jiménez, L.; Becerra González, J.; García López, R. J.; Herrera Llorente, J.; López-Oramas, A.; Molero González, M.; Molina, E.; Nievas Rosillo, M.; Vazquez Acosta, M.)[2025A&A...700A..96A](#)

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Morales, J. C. *et al.* (incluye a Béjar, V. J. S.; Murgas, F.)[2025A&A...700A.242M](#)
- 517.- 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](#)
- 518.- 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](#)
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Santos, W. *et al.* (incluye a Herrero, A.; Berlanas, S. R.)[2025MNRAS.541.1449S](#)
- 521.- The GECKOS survey: Identifying kinematic sub-structures in edge-on galaxies**
Fraser-McKelvie, A. *et al.* (incluye a Falcón-Barroso, J.; Pinna, F.)[2025A&A...700A.237F](#)
- 522.- The Gondola for the SUNRISE III Balloon-Borne Solar Observatory**
Bernasconi, Pietro *et al.* (incluye a Martínez Pillet, Valentín)[2025SoPh..300..112B](#)
- 523.- The impact of rotation on the stochastic excitation of stellar acoustic modes in solar-like pulsators**
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Alonso Asensio, I.; Contreras-Santos, A.[2025A&A...700A.205A](#)
- 525.- 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](#)
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Baştürk, Ö. *et al.* (incluye a Barkaoui, K.)[2025MNRAS.541..714B](#)
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Jiménez-Sánchez, P.; Comerón, S.; Prieto, A.; Knapen, J. H.[2025A&A...700A.101J](#)
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Frensch, Y. G. C. *et al.* (incluye a Barkaoui, K.; Murgas, F.; Pallé, E.)[2025A&A...700A.118F](#)
- 530.- 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](#)
- 531.- 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](#)
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Nabbie, Emma *et al.* (incluye a Parviainen, Hannu)[2025NatAs...9.1317N](#)
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Barron, James A.; Wade, Gregg A.; Holgado, Gonzalo; Simón-Díaz, Sergio[2025ApJ...991...79B](#)
- 536.- A Pristine-UNIONS view on the Galaxy: Kinematics of the distant spur feature of the Sagittarius stream traced by blue horizontal branch stars**
Bayer, M. *et al.* (incluye a Thomas, G. F.; Fernández Alvar, E.)[2025A&A...701A.117B](#)
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Polanski, Alex S. *et al.* (incluye a Fukui, Akihiko; Narita, Norio)[2025AJ....170..182P](#)
- 538.- AT2022sxl: A Candidate Repeating Tidal Disruption Event in Possible Association with Two High-energy Neutrino Events**
Ji, Shunhao; Wang, Zhongxiang; Zhu, Litao; Geier, Stefan; Gupta, Alok C.[2025ApJ...991...20J](#)
- 539.- ATREIDES: I. Embarking on a trek across the exo-Neptunian landscape with the TOI-421 system**
Bourrier, V. *et al.* (incluye a Murgas, F.; Palle, E.; Barkaoui, K.)[2025A&A...701A.190B](#)
- 540.- Azimuthal offsets in spiral arms of nearby galaxies**
Querejeta, Miguel *et al.* (incluye a Pinna, Francesca)[2025A&A...701A.183Q](#)
- 541.- 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](#)
- 542.- Caveats about measuring carbon abundances in stars using the CH band**
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Dileep, Athul *et al.* (incluye a Barkaoui, Khalid)[2025MNRAS.542..747D](#)
- 544.- Continuum, CO, and water vapour maps of the Orion Nebula: First millimetre spectral imaging with CONCERTO**
Désert, F. -X. *et al.* (incluye a Fasano, A.)[2025A&A...701A.210D](#)
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To, Chun-Hao *et al.* (incluye a Carnero Rosell, A.)[2025PhRvD.112f3537T](#)
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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](#)
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Adame, A. G. *et al.* (incluye a Carnero Rosell, A.)[2025JCAP...09..008A](#)
- 548.- Determining the Magnetic Field in the Atmosphere of a Solar Active Region Observed by the CLASP2.1 Sounding Rocket Experiment**
Ishikawa, Ryohko *et al.* (incluye a Trujillo Bueno, Javier; del Pino Alemán, Tanausú; Alsina Ballester, Ernest)[2025ApJ...990..200I](#)

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Boyer, M. L. *et al.* (incluye a García-Hernández, D. A.) [2025ApJ...991...24B](#)
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- 551.- 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](#)
- 552.- Error dependencies in the space-based CNEOS fireball database**
Peña-Asensio, E.; Socas-Navarro, H.; Seligman, D. Z. [2025A&A...701A.202P](#)
- 553.- Euclid Quick Data Release (Q1)—Spectroscopic Search, Classification, and Analysis of Ultracool Dwarfs in the Deep Fields**
Dominguez-Tagle, C. *et al.* (incluye a Žerjal, M.; Sedighi, N.; Martin, E. L.; Zhang, J. -Y.; Vitas, N.; Béjar, V. J. S.; Tsilia, S.; Muñoz Torres, S.; Lodieu, N.) [2025ApJ...991...84D](#)
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George, K. *et al.* (incluye a Colodro-Conde, C.; Rebolo, R.) [2025A&A...701A..40G](#)
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Byström, Amanda *et al.* (incluye a Thomas, Guillaume; Allende Prieto, Carlos) [2025MNRAS.542..560B](#)
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Gómez-Míguez, M. M.; Martínez-Gómez, D.; Khomenko, E.; Popescu Braileanu, B.; Collados, M.; Cally, P. S. [2025A&A...701A.196G](#)
- 558.- Fast X-ray transient EP240315A from a Lyman-continuum-leaking galaxy at $z \approx 5$**
Levan, Andrew J. *et al.* (incluye a Mata Sánchez, Daniel; Torres, Manuel A. P.; Dhillon, Vikram S.; Parviainen, Hannu) [2025NatAs...9.1375L](#)
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Benito, María; Hütsi, Gert; Mürsepp, Kristjan; Sánchez Almeida, Jorge; Urrutia, Juan; Vaskonen, Ville; Veermäe, Hardi [2025PDU....4902010B](#)
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Santana-Ros, T. *et al.* (incluye a Cabrera-Lavers, A.) [2025NatCo..16.8275S](#)
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Riesco, Clemente *et al.* (incluye a Ramos Almeida, Cristina) [2025ApJ...990..136R](#)
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López-Sanjuan, C. *et al.* (incluye a Hernández-Monteagudo, C.) [2025A&A...701A.273L](#)
- 563.- 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](#)

- 564.- Little impact of mergers and galaxy morphology on the production and escape of ionizing photons in the early Universe**
Mascia, S. et al. (incluye a Huertas-Company, M.)[2025A&A...701A.122M](#)
- 565.- Luminaries in the sky: The TESS legacy sample of bright stars: I. Asteroseismic detections in naked-eye main-sequence and subgiant solar-like oscillators**
Lund, Mikkel N.; Chontos, Ashley; Grundahl, Frank; Mathur, Savita; García, Rafael A.; Huber, Daniel; Buzasi, Derek; Bedding, Timothy R.; Hon, Marc; Li, Yaguang[2025A&A...701A.285L](#)
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Valé, G. et al. (incluye a Cepa, J.)[2025A&A...701A.226V](#)
- 567.- MIRACLE: I. Unveiling the multi-phase, multi-scale physical properties of the active galaxy NGC 424 with MIRI, MUSE, and ALMA**
Marconcini, C. et al. (incluye a Hatziminaoglou, E.)[2025A&A...701A.113M](#)
- 568.- MONOS: Multiplicity Of Northern O-type Spectroscopic systems: III. New orbits and Gaia-TESS analysis for ten SB2E systems**
Holgado, G.; Maíz Apellániz, J.; Gamen, R. C.[2025A&A...701A.246H](#)
- 569.- NASIM: Revealing the low surface brightness Universe from legacy VISTA data**
Saremi, Elham; Trujillo, Ignacio; Akhlaghi, Mohammad; Ghaffari, Zohreh; Knapen, Johan H.; Banerji, Manda; Dannerbauer, Helmut; Comerón, Sébastien[2025A&A...701A.116S](#)
- 570.- NGC 663 as a laboratory for massive star evolution**
Marco, Amparo; Negueruela, Ignacio; Castro, Norberto; Simón-Díaz, Sergio[2025MNRAS.542..703M](#)
- 571.- Noema forming Cluster survEy (NICE): A census of star formation and cold gas properties in massive protoclusters at $1.5 < z < 4$**
Zhou, Luwenjia et al. (incluye a d'Eugenio, Chiara)[2025A&A...701A.234Z](#)
- 572.- 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](#)
- 573.- 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](#)
- 574.- Probing Thin Winds in Massive OB Stars of the SMC with JWST/NIRSPEC Bra Spectroscopy**
García, Miriam et al. (incluye a Lennon, Daniel J.; Herrero, Artemio; Simón-Díaz, Sergio)[2025ApJ...990L..23G](#)
- 575.- Quantifying thermal water dissociation in the dayside photosphere of WASP-121 b using NIRPS**
Bazinet, Luc et al. (incluye a González Hernández, Jonay I.; Rebolo, Rafael; Suárez Mascareño, Alejandro; Gracia Témich, Félix; Luis Rasilla, José; Nari, Nicola; Stefanov, Atanas K.)[2025A&A...701A.276B](#)
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Cataldo, Silvia; Barzaga, Ransel; García-Hernández, D. Aníbal; Manchado, Arturo; Cataldo, Franco[2025FNCN...33..910C](#)
- 578.- 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](#)

- 579.- Star Clusters in the Near-ultraviolet-optical-near-infrared: Spectral Energy Distribution Modeling with Direct Markers of Gas and Dust Emission**
Henny, Kiana F. et al. (incluye a Pinna, Francesca)[2025ApJ...991...76H](#)
- 580.- Testing the growth of cosmic structures during the Dark Ages**
Vanetti, Elena; Vanzan, Eleonora; Bellomo, Nicola; Raccanelli, Alvise[2025JCAP...09..054V](#)
- 581.- The CHEOPS view of HD 95338b: Refined transit parameters, and a search for exomoons**
Kálmán, Sz. et al. (incluye a Alonso, R.; Pallé, E.; Villaver, E.)[2025A&A...701A.240K](#)
- 582.- The distribution and origin of metals in simulated Milky Way-like galaxies**
Iza, F. G.; Scannapieco, C.; Nuza, S. E.; Pakmor, R.; Grand, R. J. J.; Gómez, F. A.; Springel, V.; Marinacci, F.; Fragkoudi, F.[2025A&A...701A..99I](#)
- 583.- The Lockman-SpReSo Project. Spectroscopic Analysis of Type 1 Active Galactic Nuclei**
Negrete, Castalia Alenka et al. (incluye a Cepa, Jordi; Padilla-Torres, Carmen; Cedrés, Bernabé; Nadolny, Jakub)[2025ApJ...990..216N](#)
- 584.- The star HIP 41378 potentially misaligned with its cohort of long-period planets**
Grouffal, S. et al. (incluye a Palle, E.)[2025A&A...701A.173G](#)
- 585.- The TESS Grand Unified Hot Jupiter Survey. III. Thirty More Giant Planets**
Yee, Samuel W. et al. (incluye a Barkaoui, Khalid; Chairetas, Stavros; Fernández-Rodríguez, Gareb; Fukui, Akihiko; Lacedelli, Gaia; Murgas, Felipe; Narita, Norio; Palle, Enric)[2025ApJS...280...30Y](#)
- 586.- The Tremaine-Weinberg method at high redshifts**
Roshan, Mahmood et al. (incluye a Aguerri, J. Alfonso L.; Mendez-Abreu, Jairo; de Lorenzo-Cáceres, Adriana)[2025A&A...701A.160R](#)
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Shaw, David E. et al. (incluye a Barkaoui, Khalid; Narita, Norio; Fukui, Akihiko)[2025AJ....170..146S](#)
- 588.- Using the Hanle Effect in Mg II k to Quantify the Open Flux above the Solar Poles**
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- 629.- Scaling relations at the central regions of nearby galaxies**
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- 632.- Six new doubly eclipsing quadruples in a 2+2 architecture**
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- 642.- The orbital period and inclination of the neutron star X-ray transient MAXI J1807+132**
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- 644.- The Rise of the Galactic Empire: Ultraviolet Luminosity Functions at $z \sim 17$ and $z \sim 25$ Estimated with the MIDIS+NGDEEP Ultra-deep JWST/NIRCam Data Set**
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- 653.- TuMag: The Tunable Magnetograph for the SUNRISE III Mission**
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- 657.- Variability of Central Stars of Planetary Nebulae with the Zwicky Transient Facility. II. Long-timescale Variables including Wide Binary and Late Thermal Pulse Candidates**
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- 658.- Very high energy observations of the Seyfert galaxy NGC 4151 with MAGIC: Indication of another gamma-ray obscured candidate neutrino source**
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- 662.- A sibling of AR Scorpii: SDSS J230641.47+244055.8 and the observational blueprint of white dwarf pulsars**
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- 663.- A simulation framework for the LiteBIRD instruments**
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- 664.- An Analysis of the Radius Gap in a Sample of Kepler, K2, and TESS Exoplanets Orbiting M-dwarf Stars**
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- 665.- BOWIE-ALIGN: weak spectral features in KELT-7b's JWST NIRSpec/G395H transmission spectrum imply a high cloud deck or a low-metallicity atmosphere**
Ahrer, Eva-Maria *et al.* (incluye a Esparza-Borges, Emma)[2025MNRAS.543.2442A](#)
- 666.- Connecting laboratory and spectroscopic observations of aerospace materials to characterize the reflectivity of artificial space objects and debris in LEO regimes**
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Pelisoli, Ingrid *et al.* (incluye a Dhillon, V. S.)[2025MNRAS.544L..76P](#)
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- 669.- Detailed cool star flare morphology with CHEOPS and TESS (Corrigendum)**
Bruno, G. et al. (incluye a Alonso, R.; Pallé, E.; Villaver, E.)[2025A&A...703C...4B](#)
- 670.- Direct Imaging Explorations for Companions from the Subaru/IRD Strategic Program II; Discovery of a Brown-dwarf Companion around a Nearby Mid-M-dwarf LSPM J1446+4633**
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- 672.- DKIST resolves sub-arcsec photospheric scattering polarization**
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- 673.- Enhanced Gas-phase Metallicities and Suppressed Outflows for Galaxies in a Rich Cluster Core at Cosmic Noon**
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- 674.- Excitation of Molecular Hydrogen in Seyferts: NGC 5506 and NGC 3081**
Delaney, Daniel E. et al. (incluye a Ramos Almeida, Cristina; Audibert, Anelise)[2025ApJ...993..217D](#)
- 675.- ExoMiner++: Enhanced Transit Classification and a New Vetting Catalog for 2-minute TESS Data**
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- 676.- First release of LiteBIRD simulations from an end-to-end pipeline**
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- 677.- From simulations to observations: Methodology and data release of mock TNG50 galaxies at $0.3 < z < 0.7$ for WEAVE-StePS**
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- 679.- GATOS – IX. A detailed assessment and treatment of emission line contamination in JWST/MIRI images of nearby Seyfert galaxies**
Campbell, Steph et al. (incluye a Audibert, Anelise; Ramos Almeida, Cristina)[2025MNRAS.544..648C](#)
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- 683.- Low-Mass Companions to Nine Stars**
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- 684.- Mapping the Milky Way with Gaia BP/RP Spectra. III. The First Medium-resolution Follow-up Spectroscopy of Metal-poor Stars
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- 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.; Garcia 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 Itiraka**
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, 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" (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

Oscoz 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 Hatziminaolgou, "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).

Hatziminaolgou 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

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 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.

Ambrifi 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, Egypt

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"