

PUBLICACIONES EN REVISTAS INTERNACIONALES CON ÁRBITRO

(Publications in Refereed International Journals)

2024-PI

- 1.- **Properties of Cosmic Deuterons Measured by the Alpha Magnetic Spectrometer**
Aguilar, M. *et al.* (incluye a García-López, R. J.; Molero, M.; Vázquez Acosta, M.)[2024PhRvL.13261001A](#)
- 2.- **A 1.55 R_⊕ habitable-zone planet hosted by TOI-715, an M4 star near the ecliptic South Pole**
Dransfield, Georgina *et al.* (incluye a Barkaoui, Khalid; Murgas, Felipe)[2024MNRAS.527...35D](#)
- 3.- **A bright triple transient that vanished within 50 min**
Solano, Enrique; Marcy, Geoffrey W.; Villarroel, Beatriz; Geier, Stefan; Streblyanska, Alina; Lombardi, Gianluca; Bär, Rudolf E.; Andruk, Vitaly N.[2024MNRAS.527.6312S](#)
- 4.- **A Forecast of the Sensitivity of the DALI Experiment to Galactic Axion Dark Matter**
Hernández-Cabrera, Juan F.; De Miguel, Javier; Joven Álvarez, Enrique; Hernández-Suárez, E.; Rubiño-Martín, J. Alberto; Otani, Chiko[2024Symm...16..163H](#)
- 5.- **A hot mini-Neptune and a temperate, highly eccentric sub-Saturn around the bright K-dwarf TOI-2134**
Rescigno, F. *et al.* (incluye a Boschin, W.; Barkaoui, K.)[2024MNRAS.527.5385R](#)
- 6.- **A new step forward in realistic cluster lens mass modelling: analysis of Hubble Frontier Field Cluster Abell S1063 from joint lensing, X-ray, and galaxy kinematics data**
Beauchesne, Benjamin *et al.* (incluye a Montes, Mireia)[2024MNRAS.527.3246B](#)
- 7.- **A Search for Faint Resolved Galaxies Beyond the Milky Way in DES Year 6: A New Faint, Diffuse Dwarf Satellite of NGC 55**
McNanna, M. *et al.* (incluye a Carnero Rosell, A.)[2024ApJ...961..126M](#)
- 8.- **AGN feedback and star formation in the peculiar galaxy NGC 232: insights from VLT-MUSE observations**
Costa-Souza, José Henrique; Riffel, Rogemar A.; Dors, Oli L.; Riffel, Rogério; da Rocha-Poppe, Paulo C.[2024MNRAS.527.9192C](#)
- 9.- **An almost dark galaxy with the mass of the Small Magellanic Cloud**
Montes, Mireia *et al.* (incluye a Trujillo, Ignacio; Golini, Giulia; Cebrián, Maria; Román, Javier)[2024A&A...681A..15M](#)
- 10.- **BOWIE-ALIGN: A JWST comparative survey of aligned versus misaligned hot Jupiters to test the dependence of atmospheric composition on migration history**
Kirk, James *et al.* (incluye a Esparza-Borges, Emma)[2024RASTI...3..691K](#)
- 11.- **Can we really pick and choose? Benchmarking various selections of Gaia Enceladus/Sausage stars in observations with simulations**
Carrillo, Andreia; Deason, Alis J.; Fattahi, Azadeh; Callingham, Thomas M.; Grand, Robert J. J.[2024MNRAS.527.2165C](#)
- 12.- **COALAS II. Extended molecular gas reservoirs are common in a distant, forming galaxy cluster**
Chen, Z. *et al.* (incluye a Dannerbauer, H.; Pérez-Martínez, J. M.)[2024MNRAS.527.8950C](#)
- 13.- **Constraining the top-light initial mass function in the extended ultraviolet disk of M 83**
Rautio, R. P. V.; Watkins, A. E.; Salo, H.; Venhola, A.; Knapen, J. H.; Comerón, S.[2024A&A...681A..76R](#)
- 14.- **Constraints on redshifts of blazars from extragalactic background light attenuation using Fermi-LAT data**
Domínguez, Alberto; Láinez, María; Paliya, Vaidehi S.; Álvarez-Crespo, Nuria; Ajello, Marco; Finke, Justin; Nievas-Rosillo, Mireia; Contreras, Jose Luis; Desai, Abhishek[2024MNRAS.527.4763D](#)

- 15.- **Correcting Exoplanet Transmission Spectra for Stellar Activity with an Optimized Retrieval Framework**
Thompson, Alexandra; Biagini, Alfredo; Cracchiolo, Gianluca; Petralia, Antonino; Changeat, Quentin; Saba, Arianna; **Morello, Giuseppe**; Morvan, Mario; Micela, Giuseppina; Tinetti, Giovanna [2024ApJ...960..107T](#)
- 16.- **Cosmological constraints from the tomography of DES-Y3 galaxies with CMB lensing from ACT DR4**
Marques, G. A. *et al.* (include a **Carnero Rosell, A.**) [2024JCAP...01..033M](#)
- 17.- **Cosmological shocks around galaxy clusters: a coherent investigation with DES, SPT, and ACT**
Anbajagane, D. *et al.* (include a **Carnero Rosell, A.**) [2024MNRAS.527.9378A](#)
- 18.- **Dark Energy Survey Year 3 results: redshift calibration of the MAGLIM lens sample from the combination of SOMPZ and clustering and its impact on cosmology**
Giannini, G. *et al.* (include a **Carnero Rosell, A.**; **Friedel, D.**) [2024MNRAS.527.2010G](#)
- 19.- **Deciding Technosignature Search Strategies: Multi-Criteria Fuzzy Logic to Find Extraterrestrial Intelligence**
Sánchez-Lozano, Juan Miguel; Peña-Asensio, Eloy; **Socas-Navarro, Hector** [2024Aeros..11...88S](#)
- 20.- **Detailed spectrophotometric analysis of the superluminous and fast evolving SN 2019neq**
Fiore, Achille *et al.* (include a **Geier, Stefan**) [2024MNRAS.527.6473F](#)
- 21.- **Detection of the significant impact of source clustering on higher order statistics with DES Year 3 weak gravitational lensing data**
Gatti, M. *et al.* (include a **Carnero Rosell, A.**) [2024MNRAS.527L.115G](#)
- 22.- **Euclid preparation. XXXI. The effect of the variations in photometric passbands on photometric-redshift accuracy**
Euclid Collaboration *et al.* (include a **Rebolo, R.**) [2024A&A...681A..66E](#)
- 23.- **Euclid preparation. XXXII. Evaluating the weak-lensing cluster mass biases using the Three Hundred Project hydrodynamical simulations**
Euclid Collaboration *et al.* (include a **Colodro-Conde, C.**) [2024A&A...681A..67E](#)
- 24.- **Euclid preparation. XXXIII. Characterization of convolutional neural networks for the identification of galaxy-galaxy strong-lensing events**
Euclid Collaboration *et al.* (include a **Colodro-Conde, C.**; **Huertas-Company, M.**) [2024A&A...681A..68E](#)
- 25.- **EUSO-SPB1 mission and science**
Abdellaoui, G. *et al.* (include a **Joven, E.**; **Licandro, J.**; **Martín, Y.**; **Reyes, M.**; **Serra, M.**) [2024APh...15402891A](#)
- 26.- **Evidence for a black hole in the historical X-ray transient A 1524-61 (= KY TrA)**
Yanes-Rizo, I. V.; Torres, M. A. P.; Casares, J.; Monelli, M.; Jonker, P. G.; Abbot, T.; Armas Padilla, M.; Muñoz-Darias, T. [2024MNRAS.527.5949Y](#)
- 27.- **ExoMol line lists - LI. Molecular line lists for lithium hydroxide (LiOH)**
Owens, Alec; Wright, Sam O. M.; **Pavlenko, Yakiv**; Mitrushchenkov, Alexander; Koput, Jacek; Yurchenko, Sergei N.; Tennyson, Jonathan [2024MNRAS.527..731O](#)
- 28.- **Experimental measurement of the quality factor of a Fabry-Pérot open-cavity axion haloscope**
Hernández-Cabrera, Juan F.; De Miguel, Javier; Hernández-Suárez, E.; Joven-Álvarez, Enrique; Lorenzo-Hernández, H.; Otani, Chiko; Rapado-Tamarit, Miguel A.; Rubiño-Martín, J. Alberto [2024JInst..19P1022H](#)
- 29.- **Fractional loop delays in adaptive optics modeling and control**
Marquis, Lucas; Raynaud, Henri-François; Galland, Nicolas; **Marco de la Rosa, Jose**; **Montilla, Icíar**; **Tubío Araújo, Óscar**; **Reyes García-Talavera, Marcos**; **Kulcsár, Caroline** [2024JOSAA..41..111M](#)

- 30.- **Improved models for the near-Earth asteroids (2100) Ra-Shalom, (3103) Eger, (12711) Tukmit, and (161989) Cacus**
Rodríguez Rodríguez, Javier; Díez Alonso, E.; Iglesias Álvarez, Santiago; Pérez Fernández, Saúl; **Licandro, Javier; Alarcon, Miguel R.; Serra-Ricart, Miquel**; Pinilla-Alonso, Noemi; Fernández, Susana del Carmen; de Cos Juez, Francisco Javier [2024MNRAS.527.6814R](#)
- 31.- **INSPIRE: INvestigating Stellar Population In RElics - V. A catalogue of ultra-compact massive galaxies outside the local Universe and their degree of relicness**
Spiniello, C. *et al.* (incluye a **Ferré-Mateu, A.; Martín-Navarro, I.**) [2024MNRAS.527.8793S](#)
- 32.- **J-PLUS: galaxy-star-quasar classification for DR3**
von Marttens, R. *et al.* (incluye a **Hernández-Monteagudo, C.**) [2024MNRAS.527.3347V](#)
- 33.- **MAGIC detection of GRB 201216C at $z = 1.1$**
Abe, H. *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.; Otero-Santos, J.; Vazquez Acosta, M.**) [2024MNRAS.527.5856A](#)
- 34.- **Main belt asteroids taxonomical information from dark energy survey data**
Carruba, V. *et al.* (incluye a **Carnero Rosell, A.**) [2024MNRAS.527.6495C](#)
- 35.- **Masses, revised radii, and a third planet candidate in the 'Inverted' planetary system around TOI-1266**
Cloutier, Ryan *et al.* (incluye a **Pallé, Enric**) [2024MNRAS.527.5464C](#)
- 36.- **Measuring distances to galaxies with globular cluster velocity dispersions**
Beasley, Michael A.; Fahrion, Katja; Gvozdenko, Anastasia [2024MNRAS.527.5767B](#)
- 37.- **MELCHIORs. The Mercator Library of High Resolution Stellar Spectroscopy**
Royer, P. *et al.* (incluye a **Beck, P. G.**) [2024A&A...681A.107R](#)
- 38.- **Multiline Stokes Synthesis of Ellerman Bombs: Obtaining Seamless Information from Photosphere to Chromosphere**
Kawabata, Yusuke; **Quintero Noda, Carlos**; Katsukawa, Yukio; Kubo, Masahito; Matsumoto, Takuma; Oba, Takayoshi [2024ApJ...960...26K](#)
- 39.- **Multiphase characterization of AGN winds in five local type-2 quasars**
Speranza, G. *et al.* (incluye a **Ramos Almeida, C.; Acosta-Pulido, J. A.; Audibert, A.**) [2024A&A...681A..63S](#)
- 40.- **New Mass and Radius Constraints on the LHS 1140 Planets: LHS 1140 b Is either a Temperate Mini-Neptune or a Water World**
Cadieux, Charles *et al.* (incluye a **González Hernández, J. I.; Passeger, Vera Maria; Suárez Mascareño, Alejandro**) [2024ApJ...960L...3C](#)
- 41.- **Nitrogen abundances of the Be-type stars in 30 Doradus**
Dufton, P. L.; Langer, N.; Lennon, D. J.; Schneider, F. R. N.; Evans, C. J.; Sana, H.; Taylor, W. D. [2024MNRAS.527.5155D](#)
- 42.- **Obscuration beyond the nucleus: infrared quasars can be buried in extreme compact starbursts**
Andonie, Carolina *et al.* (incluye a **Ramos Almeida, Cristina**) [2024MNRAS.527L.144A](#)
- 43.- **On the Nature of Disks at High Redshift Seen by JWST/CEERS with Contrastive Learning and Cosmological Simulations**
Vega-Ferrero, Jesús *et al.* (incluye a **Huertas-Company, Marc; Sarmiento, Regina; Knapen, Johan H.**) [2024ApJ...961...51V](#)
- 44.- **On the radiation-induced polymerization of indene: from laboratory study to astrochemical implications**
Barzaga, Ransel; García-Hernández, D. Aníbal; Manchado, Arturo; Di Sarcina, Ilaria; Cemmi, Alessia; Cataldo, Franco [2024JRNC..333..865B](#)

- 45.- **Oort cloud perturbations as a source of hyperbolic Earth impactors**
Peña-Asensio, Eloy; Visuri, Jaakko; Trigo-Rodríguez, Josep M.; Socas-Navarro, Hector; Gritsevich, Maria; Siljama, Markku; Rimola, Albert [2024Icar..40815844P](#)
- 46.- **QUIJOTE scientific results - XIII. Intensity and polarization study of the microwave spectra of supernova remnants in the QUIJOTE-MFI wide survey: CTB 80, Cygnus Loop, HB 21, CTA 1, Tycho, and HB 9**
López-Caraballo, C. H. *et al.* (incluye a Génova-Santos, R. T.; Fernández-Torreiro, M.; Rubiño-Martín, J. A.; Peel, M. W.; Poidevin, F.; González-González, R.; Hoyland, R.; Rebolo, R.; Tramonte, D.; Vansyngel, F.) [2024MNRAS.527..171L](#)
- 47.- **SDSS-IV MaNGA: the role of the environment in AGN triggering**
Rembold, Sandro B.; Riffel, Rogério; Riffel, Rogemar A.; Storchi-Bergmann, Thaisa; Schimoia, Jaderson da S.; Valk, Greique A.; Lorenzoni, Vanessa; Ilha, Gabriele S.; da Costa, Luiz N. [2024MNRAS.527.6722R](#)
- 48.- **Seismic and spectroscopic analysis of nine bright red giants observed by Kepler**
Coelho, H. R. *et al.* (incluye a Mathur, S.) [2024MNRAS.527.8535C](#)
- 49.- **Shedding far-ultraviolet light on the donor star and evolutionary state of the neutron-star LMXB Swift J1858.6-0814**
Castro Segura, N. *et al.* (incluye a Vincentelli, F. M.; Torres, M. A. P.) [2024MNRAS.527.2508C](#)
- 50.- **Spectroscopy of the binary TNO Mors-Somnus with the JWST and its relationship to the cold classical and plutino subpopulations observed in the DiSCO-TNO project**
Souza-Feliciano, A. C. *et al.* (incluye a Licandro, J.; Lorenzi, V.) [2024A&A...681L..17S](#)
- 51.- **SPRIGT: a probabilistic mass-density-radius relation for small planets**
Parviainen, Hannu; Luque, Rafael; Palle, Enric [2024MNRAS.527.5693P](#)
- 52.- **Stellar mass is not the best predictor of galaxy metallicity. The gravitational potential-metallicity relation Φ ZR**
Sánchez-Menguiano, Laura; Sánchez Almeida, Jorge; Sánchez, Sebastián F.; Muñoz-Tuñón, Casiana [2024A&A...681A.121S](#)
- 53.- **Strong Carbon Features and a Red Early Color in the Underluminous Type Ia SN 2022xkq**
Pearson, Jeniveve *et al.* (incluye a González Hernández, Jonay I.) [2024ApJ...960...29P](#)
- 54.- **The black widow pulsar J1641+8049 in the optical, radio, and X-rays**
Kirichenko, A. Yu *et al.* (incluye a Cabrera-Lavers, A.; Geier, S.) [2024MNRAS.527.4563K](#)
- 55.- **The donor star radial velocity curve in the cataclysmic variable GY Cnc confirms white dwarf eclipse modelling mass**
Littlefair, S. P.; Rodríguez-Gil, Pablo; Marsh, T. R.; Parsons, S. G.; Dhillon, V. S. [2024MNRAS.527.4353L](#)
- 56.- **The Galaxy Activity, Torus, and Outflow Survey (GATOS). III. Revealing the inner icy structure in local active galactic nuclei**
García-Bernete, I. *et al.* (incluye a Ramos Almeida, C.; Esparza-Arredondo, D.) [2024A&A...681L...7G](#)
- 57.- **The Hubble tension survey: A statistical analysis of the 2012-2022 measurements**
Wang, Bao; López-Corredoira, Martín; Wei, Jun-Jie [2024MNRAS.527.7692W](#)
- 58.- **The Tully-Fisher relation and the Bosma effect**
Sylos Labini, Francesco; De Marzo, Giordano; Straccamore, Matteo; Comerón, Sébastien [2024MNRAS.527.2697S](#)
- 59.- **The updated BaSTI stellar evolution models and isochrones - IV. α -Depleted calculations**
Pietrinferni, Adriano; Salaris, Maurizio; Cassisi, Santi; Savino, Alessandro; Mucciarelli, Alessio; Hyder, David; Hidalgo, Sebastian [2024MNRAS.527.2065P](#)

- 60.- **TIC 378898110: A bright, short-period AM CVn binary in TESS**
Green, Matthew J. *et al.* (incluye a **Dhillon, V. S.**)[2024MNRAS.527.3445G](#)
- 61.- **TOI-5126: a hot super-Neptune and warm Neptune pair discovered by TESS and CHEOPS**
Fairington, Tyler R. *et al.* (incluye a **Murgas, Felipe; Palle, Enric**)[2024MNRAS.527.8768F](#)
- 62.- **TransitFit: combined multi-instrument exoplanet transit fitting for JWST, HST, and ground-based transmission spectroscopy studies**
Hayes, J. J. C. *et al.* (incluye a **Dhillon, V. S.**)[2024MNRAS.527.4936H](#)
- 63.- **Two fluid dynamics in solar prominences**
González Manrique, S. J.; Khomenko, E.; Collados, M.; Kuckein, C.; Felipe, T.; Gömöry, P.[2024A&A...681A.114G](#)
- 64.- **Two mini-Neptunes transiting the adolescent K-star HIP 113103 confirmed with TESS and CHEOPS**
Lowson, N. *et al.* (incluye a **Murgas, F.; Pallé, E.**)[2024MNRAS.527.1146L](#)
- 65.- **When the horseshoe fits: Characterizing 2023 FY₃ with the 10.4 m Gran Telescopio Canarias and the Two-meter Twin Telescope**
de la Fuente Marcos, R.; de la Fuente Marcos, C.; de León, J.; Alarcon, M. R.; Licandro, J.; Serra-Ricart, M.; García-Álvarez, D.; Cabrera-Lavers, A.[2024A&A...681A...4D](#)
- 66.- **z-GAL: A NOEMA spectroscopic redshift survey of bright Herschel galaxies. I. Overview (Corrigendum)**
Cox, P. *et al.* (incluye a **Dannerbauer, H.; Perez-Fournon, I.**)[2024A&A...681C...1C](#)
- 67.- **A dynamic view of V Hydrae. Monitoring of a spectroscopic-binary AGB star with an alkaline jet**
Planquart, L.; Jorissen, A.; Escorza, A.; Verhamme, O.; Van Winckel, H.[2024A&A...682A.143P](#)
- 68.- **A microwave blackbody target for cosmic microwave background spectral measurements in the 10–20 GHz range**
Alonso-Arias, P.; Cuttaia, F.; Terenzi, L.; Simonetto, A.; Fuerte-Rodríguez, P. A.; Hoyland, R.; Rubiño-Martín, J. A.[2024JInst..19P2040A](#)
- 69.- **A new tidal scenario for double bar formation**
Semczuk, Marcin; Łokas, Ewa L.; de Lorenzo-Cáceres, Adriana; Athanassoula, E.[2024MNRAS.528L..83S](#)
- 70.- **An ESPRESSO view of the HD 189733 system. Broadband transmission spectrum, differential rotation, and system architecture**
Cristo, E. *et al.* (incluye a **Esparza Borges, E.; Palle, E.; González Hernández, J. I.; Stangret, M.; Suárez Mascareño, A.**)[2024A&A...682A..28C](#)
- 71.- **An ultraviolet spectral study of fullerene-rich planetary nebulae**
Gómez-Muñoz, M. A.; García-Hernández, D. A.; Manchado, A.; Barzaga, R.; Huertas-Roldán, T.[2024MNRAS.528.2871G](#)
- 72.- **Bar properties as a function of wavelength: a local baseline with S⁴G for high-redshift studies**
Menéndez-Delmestre, Karín *et al.* (incluye a **Knapen, Johan H.**)[2024MNRAS.52711777M](#)
- 73.- **Characterising TOI-732 b and c: New insights into the M-dwarf radius and density valley**
Bonfanti, A. *et al.* (incluye a **Murgas, F.; Alonso, R.; Pallé, E.; Villaver, E.**)[2024A&A...682A..66B](#)
- 74.- **Chasing the Break: Tracing the Full Evolution of a Black Hole X-Ray Binary Jet with Multiwavelength Spectral Modeling**
Echiburú-Trujillo, Constanza *et al.* (incluye a **Shahbaz, Tariq**)[2024ApJ...962..116E](#)
- 75.- **Chasing the impact of the Gaia-Sausage-Enceladus merger on the formation of the Milky Way thick disc**
Ciucă, Ioana *et al.* (incluye a **Grand, Robert J. J.**)[2024MNRAS.528L.122C](#)

- 76.- **Confirmation of TiO absorption and tentative detection of MgH and CrH in the atmosphere of HAT-P-41b**
Jiang, C.; Chen, G.; Murgas, F.; Pallé, E.; Parviainen, H.; Ma, Y. [2024A&A...682A..73J](#)
- 77.- **Constraining stellar and orbital co-evolution through ensemble seismology of solar-like oscillators in binary systems. A census of oscillating red giants and dwarf stars in Gaia DR3 binaries**
Beck, P. G. *et al.* (incluye a Mathur, S.; Allende Prieto, C.; Godoy-Rivera, D.; Símon-Díaz, S.) [2024A&A...682A...7B](#)
- 78.- **Constraining the reflective properties of WASP-178 b using CHEOPS photometry**
Pagano, I. *et al.* (incluye a Alonso, R.; Pallé, E.) [2024A&A...682A.102P](#)
- 79.- **Cosmological gas accretion history on to the stellar discs of Milky Way-like galaxies in the Auriga simulations - II. The inside-out growth of discs**
Iza, Federico G.; Nuza, Sebastián E.; Scannapieco, Cecilia; Grand, Robert J. J.; Gómez, Facundo A.; Springel, Volker; Pakmor, Rüdiger; Marinacci, Federico; Fragkoudi, Francesca [2024MNRAS.528.1737I](#)
- 80.- **Cosmology and fundamental physics with the ELT-ANDES spectrograph**
Martins, C. J. A. P. *et al.* (incluye a Génova Santos, R.; González Hernández, J. I.) [2024ExA....57....5M](#)
- 81.- **Cosmology from cross-correlation of ACT-DR4 CMB lensing and DES-Y3 cosmic shear**
Shaikh, S. *et al.* (incluye a Carnero Rosell, A.) [2024MNRAS.528.2112S](#)
- 82.- **Deep submillimetre and radio observations in the SSA22 field. II. Submillimetre source catalogue and number counts**
Zeng, Xin; Ao, Yiping; Zhang, Yuheng [2024MNRAS.528.2964Z](#)
- 83.- **Evidence for inflows and outflows in the nearby black hole transient Swift J1727.8–162**
Mata Sánchez, D.; Muñoz-Darias, T.; Armas Padilla, M.; Casares, J.; Torres, M. A. P. [2024A&A...682L...1M](#)
- 84.- **Evolution of the Size–Mass Relation of Star-forming Galaxies Since $z = 5.5$ Revealed by CEERS**
Ward, Ethan *et al.* (incluye a Huertas-Company, Marc) [2024ApJ...962..176W](#)
- 85.- **EWOCs-I: The catalog of X-ray sources in Westerlund 1 from the Extended Westerlund 1 and 2 Open Clusters Survey**
Guarcello, M. G. *et al.* (incluye a Borghese, A.) [2024A&A...682A..49G](#)
- 86.- **ExoMol line lists - LIV. Empirical line lists for AIH and AID and experimental emission spectroscopy of AID in $A^1\Pi$ ($v = 0, 1, 2$)**
Yurchenko, Sergei N.; Szajna, Wojciech; Hakalla, Rafał; Semenov, Mikhail; Sokolov, Andrei; Tennyson, Jonathan; Gamache, Robert R.; Pavlenko, Yakiv; Schmidt, Mirek R. [2024MNRAS.527.9736Y](#)
- 87.- **Feeding and feedback processes in the Spiderweb proto-intracluster medium**
Lepore, M. *et al.* (incluye a Dannerbauer, H.) [2024A&A...682A.186L](#)
- 88.- **Field-level Lyman- α forest modeling in redshift space via augmented nonlocal Fluctuating Gunn-Peterson Approximation**
Sinigaglia, F.; Kitaura, F. -S.; Nagamine, K.; Oku, Y.; Balaguera-Antolínez, A. [2024A&A...682A..21S](#)
- 89.- **Filamentary Network and Magnetic Field Structures Revealed with BISTRO in the High-mass Star-forming Region NGC 2264: Global Properties and Local Magnetogravitational Configurations**
Wang, Jia-Wei *et al.* (incluye a Poidevin, Frédéric) [2024ApJ...962..136W](#)
- 90.- **First spectroscopic investigation of anomalous Cepheid variables**
Ripepi, V. *et al.* (incluye a Monelli, M.) [2024A&A...682A...1R](#)

- 91.- **Ground-based photometric follow-up for exoplanet detections with the PLATO mission**
Deeg, H. J.; Alonso, R.[2024CoSka..54b.142D](#)
- 92.- **Heavy-element production in a compact object merger observed by JWST**
Levan, Andrew J. *et al.* (incluye a Dhillon, Vikram S.)[2024Natur.626..737L](#)
- 93.- **Hydrogenated amorphous carbon grains as an alternative carrier of the 9-13 μm plateau feature in the fullerene planetary nebula Tc 1**
Gómez-Muñoz, M. A.; García-Hernández, D. A.; Barzaga, R.; Manchado, A.; Huertas-Roldán, T.[2024A&A...682L..18G](#)
- 94.- **Is the Atmosphere of the Ultra-hot Jupiter WASP-121 b Variable?**
Changeat, Q. *et al.* (incluye a Morello, G.)[2024ApJS..270...34C](#)
- 95.- **JWST observations of the Ring Nebula (NGC 6720): I. Imaging of the rings, globules, and arcs**
Wesson, R. *et al.* (incluye a Manchado, A.)[2024MNRAS.528.3392W](#)
- 96.- **MANCHA3D Code: Multipurpose Advanced Nonideal MHD Code for High-Resolution Simulations in Astrophysics**
Modestov, M. *et al.* (incluye a Khomeenko, E.; Vitas, N.; de Vicente, A.; Navarro, A.; González-Morales, P. A.; Collados, M.; Felipe, T.; Martínez-Gómez, D.; Hunana, P.; Koll Pistarini, M.; Perdomo García, A.; Santamaria, I.; Gomez Miguez, M. M.)[2024SoPh..299...23M](#)
- 97.- **More fundamental than the fundamental metallicity relation. The effect of the stellar metallicity on the gas-phase mass-metallicity and gravitational potential-metallicity relations**
Sánchez-Menguiano, Laura; Sánchez, Sebastián F.; Sánchez Almeida, Jorge; Muñoz-Tuñón, Casiana[2024A&A...682L..11S](#)
- 98.- **Multi-year characterisation of the broad-band emission from the intermittent extreme BL Lac 1ES 2344+514**
MAGIC Collaboration *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.; Njoh Ekoume, T.; Otero-Santos, J.; Multi-wavelength Collaborators; Acosta-Pulido, J. A.)[2024A&A...682A.114M](#)
- 99.- **Multiwavelength analysis of Fermi-LAT blazars with high-significance periodicity: detection of a long-term rising emission in PG 1553+113**
Peñil, P.; Westernacher-Schneider, J. R.; Ajello, M.; Domínguez, A.; Buson, S.; Otero-Santos, J.; Marcotulli, L.; Torres-Albà, N.; Zrake, J.[2024MNRAS.52710168P](#)
- 100.- **New insights into the role of AGNs in forming the cluster red sequence**
Shimakawa, Rhythm; Pérez-Martínez, Jose Manuel; Koyama, Yusei; Tanaka, Masayuki; Tanaka, Ichi; Kodama, Tadayuki; Hatch, Nina A.; Röttgering, Huub J. A.; Dannerbauer, Helmut; Kurk, Jaron D.[2024MNRAS.528.3679S](#)
- 101.- **On the dust properties of the UV galaxies in the redshift range z 0.6-1.2**
Sharma, M.; Page, M. J.; Symeonidis, M.; Ferreras, I.[2024MNRAS.528.1997S](#)
- 102.- **Photometric and colorimetric studies of target objects using small and medium-size telescopes**
Godunova, V. G. *et al.* (incluye a Geier, S.)[2024CoSka..54b.205G](#)
- 103.- **Photometry of the Didymos System across the DART Impact Apparition**
Moskovitz, Nicholas *et al.* (incluye a de León, Julia; Geier, Stefan; Licandro, Javier)[2024PSJ.....5...35M](#)
- 104.- **Pisces VII/Triangulum III - M33's second dwarf satellite galaxy**
Collins, Michelle L. M.; Karim, Noushin; Martinez-Delgado, David; Monelli, Matteo; Tollerud, Erik J.; Donatiello, Giuseppe; Navabi, Mahdieh; Charles, Emily; Boschin, Walter[2024MNRAS.528.2614C](#)

- 105.- Planet formation around intermediate-mass stars. I. Different disc evolutionary pathways as a function of stellar mass**
Ronco, M. P.; Schreiber, M. R.; Villaver, E.; Guilera, O. M.; Miller Bertolami, M. M. [2024A&A...682A.155R](#)
- 106.- Pointing Calibration of GroundBIRD Telescope Using Moon Observation Data**
Sueno, Y. *et al.* (include a Génova-Santos, R. T.; Peel, M.) [2024PTEP.2024b3F01S](#)
- 107.- Preparing for low surface brightness science with the Vera C. Rubin Observatory: a comparison of observable and simulated intracluster light fractions**
Brough, Sarah *et al.* (include a Montes, Mireia; Knapen, Johan H.) [2024MNRAS.528..771B](#)
- 108.- Probing the roles of orientation and multiscale gas distributions in shaping the obscuration of active galactic nuclei through cosmic time**
Alonso-Tetilla, Alba V. *et al.* (include a Ramos Almeida, Cristina) [2024MNRAS.52710878A](#)
- 109.- Probing the structure of the lensed quasar SDSS J1004+4112 through microlensing analysis of spectroscopic data**
Fian, C.; Muñoz, J. A.; Forés-Toribio, R.; Mediavilla, E.; Jiménez-Vicente, J.; Chelouche, D.; Kaspi, S.; Richards, G. T. [2024A&A...682A..57F](#)
- 110.- PSR J0210+5845: Ultra-wide binary pulsar with a B6 V main sequence star companion**
van der Wateren, E.; Bassa, C. G.; Janssen, G. H.; Yanes-Rizo, I. V.; Casares, J.; Nelemans, G.; Stappers, B. W.; Tan, C. M. [2024A&A...682A.178V](#)
- 111.- QUIJOTE Scientific Results - XVII. Studying the anomalous microwave emission in the Andromeda Galaxy with QUIJOTE-MFI**
Fernández-Torreiro, M. *et al.* (include a Génova-Santos, R. T.; Rubiño-Martín, J. A.; López-Caraballo, C. H.; Peel, M. W.; Rebolo, R.; Hoyland, R.; Poidevin, F.; Ruiz-Granados, B.; Tramonte, D.; Vansyngel, F.) [2024MNRAS.52711945F](#)
- 112.- Radio Jet Feedback on the Inner Disk of Virgo Spiral Galaxy Messier 58**
Ogle, Patrick M. *et al.* (include a Román, Javier) [2024ApJ...962..196O](#)
- 113.- Revealing the kinematic puzzle of the AGN host NGC 3884: optical integral field spectroscopy unravels stellar and gas motions**
Riffel, Rogemar A.; Riffel, Rogério; Storchi-Bergmann, Thaisa; Costa-Souza, José Henrique; Souza-Oliveira, Gabriel Luan; Bianchin, Marina [2024MNRAS.528.1476R](#)
- 114.- Simultaneous multicolour transit photometry of hot Jupiters HAT-P-19b, HAT-P-51b, HAT-P-55b, and HAT-P-65b**
Kang, H. *et al.* (include a Pallé, E.; Murgas, F.; García, N. Abreu; Enoc, G.; Esparza-Borges, E.; Fukui, A.; Galán, D.; Madrigal-Aguado, A.; Meni, P.; Montañes Rodríguez, P.; Muñoz Torres, S.; Narita, N.; Orell-Miquel, J.; Parviainen, H.; Peláez-Torres, A.) [2024MNRAS.528.1930K](#)
- 115.- Spectroscopic identification of rapidly rotating red giant stars in APOKASC-3 and APOGEE DR16**
Patton, Rachel A.; Pinsonneault, Marc H.; Cao, Lyra; Vrad, Mathieu; Mathur, Savita; García, Rafael A.; Tayar, Jamie; Daher, Christine Mazzola; Beck, Paul G. [2024MNRAS.528.3232P](#)
- 116.- Strong size evolution of disc galaxies since $z = 1$. Readdressing galaxy growth using a physically motivated size indicator**
Buitrago, Fernando; Trujillo, Ignacio [2024A&A...682A.110B](#)
- 117.- Sulfur dioxide in the mid-infrared transmission spectrum of WASP-39b**
Powell, Diana *et al.* (include a Morello, Giuseppe; Palle, Enric) [2024Natur.626..979P](#)
- 118.- Surface Heterogeneity, Physical, and Shape Model of Near-Earth Asteroid (52768) 1998 OR2**
Devogèle, Maxime *et al.* (include a Medeiros, Hissa) [2024PSJ.....5...44D](#)

- 119.- **Systematic reanalysis of KMTNet microlensing events, paper I: Updates of the photometry pipeline and a new planet candidate**
Yang, Hongjing *et al.* (incluye a Fukui, Akihiko)[2024MNRAS.528...11Y](#)
- 120.- **The APO-K2 Catalog. I. 7500 Red Giants with Fundamental Stellar Parameters from APOGEE DR17 Spectroscopy and K2-GAP Asteroseismology**
Schönhut-Stasik, Jessica *et al.* (incluye a Mathur, Savita)[2024AJ....167...50S](#)
- 121.- **The APOGEE value-added catalogue of Galactic globular cluster stars**
Schiavon, Ricardo P. *et al.* (incluye a Allende Prieto, Carlos)[2024MNRAS.528.1393S](#)
- 122.- **The dynamical state of bars in cluster dwarf galaxies: the cases of NGC 4483 and NGC 4516**
Cuomo, Virginia *et al.* (incluye a Aguerri, J. Alfonso L.; de Lorenzo-Cáceres, Adriana; Mendez-Abreu, Jairo; Zarattini, Stefano)[2024MNRAS.52711218C](#)
- 123.- **The flipped orbit of KELT-19Ab inferred from the symmetric TESS transit light curves**
Kawai, Yugo; Narita, Norio; Fukui, Akihiko; Watanabe, Noriharu; Inaba, Satoshi[2024MNRAS.528..270K](#)
- 124.- **The GAPS programme at TNG. L. TOI-4515 b: An eccentric warm Jupiter orbiting a 1.2 Gyr-old G-star**
Carleo, I. *et al.* (incluye a Murgas, F.; Parviainen, H.; Barkaoui, K.; Lorenzi, V.; Pallé, E.)[2024A&A...682A.135C](#)
- 125.- **The GAPS Programme at TNG. LI. Investigating the correlations between transiting system parameters and host chromospheric activity**
Claudi, R. *et al.* (incluye a Carleo, I.)[2024A&A...682A.136C](#)
- 126.- **The GAPS programme at TNG. XLIX. TOI-5398, the youngest compact multi-planet system composed of an inner sub-Neptune and an outer warm Saturn**
Mantovan, G. *et al.* (incluye a Murgas, F.; Barkaoui, K.; Fukui, A.; Lorenzi, V.; Narita, N.; Nowak, G.; Orell-Miquel, J.; Pallé, E.; Parviainen, H.)[2024A&A...682A.129M](#)
- 127.- **The hydrostatic-to-lensing mass bias from resolved X-ray and optical-IR data**
Muñoz-Echeverría, M. *et al.* (incluye a Ferragamo, A.)[2024A&A...682A.147M](#)
- 128.- **The omnipresent flux-dependent optical dips of the black hole transient Swift J1357.2–0933**
Panizo-Espinar, G. *et al.* (incluye a Muñoz-Darias, T.; Armas Padilla, M.; Mata Sánchez, D.; Yanes-Rizo, I. V.; Casares, J.; Sánchez-Sierras, J.; Shahbaz, T.; Torres, M. A. P.; Vincentelli, F.)[2024A&A...682A..19P](#)
- 129.- **The SAMI-Fornax Dwarfs Survey - IV. Star formation histories of dwarf and early-type galaxies: insights from full spectral fitting**
Romero-Gómez, J.; Aguerri, J. A. L.; Peletier, Reynier F.; Mieske, Steffen; van de Ven, Glenn; Falcón-Barroso, Jesús[2024MNRAS.527.9715R](#)
- 130.- **The stellar occultation by (319) Leona on 2023 September 13 in preparation for the occultation of Betelgeuse**
Ortiz, J. L. *et al.* (incluye a Alarcon, M. R.; Licandro, J.; Serra-Ricart, M.)[2024MNRAS.528L.139O](#)
- 131.- **The TESS-Keck Survey. XVII. Precise Mass Measurements in a Young, High-multiplicity Transiting Planet System Using Radial Velocities and Transit Timing Variations**
Beard, Corey *et al.* (incluye a Nowak, Grzegorz; Barrena, Rafael; Carleo, Ilaria; Morello, Giuseppe; Murgas, Felipe; Orell-Miquel, Jaume; Palle, Enric)[2024AJ....167...70B](#)
- 132.- **The three hundred project: mapping the matter distribution in galaxy clusters via deep learning from multiview simulated observations**
de Andres, Daniel; Cui, Weiguang; Yepes, Gustavo; De Petris, Marco; Ferragamo, Antonio; De Luca, Federico; Aversano, Gianmarco; Rennehan, Douglas[2024MNRAS.528.1517D](#)
- 133.- **TOI-544 b: a potential water-world inside the radius valley in a two-planet system**
Osborne, H. L. M. *et al.* (incluye a Nowak, G.; Pallé, E.; Carleo, I.; Casasayas-Barris, N.; Murgas, F.; Orell-Miquel, J.; Stangret, M.; Deeg, H. J.)[2024MNRAS.52711138O](#)

- 134.- **Validation of the Scientific Program for the Dark Energy Spectroscopic Instrument**
DESI Collaboration *et al.* (incluye a Alfarsy, R.; Bailey, S.; Cardiel-Sas, L.; Kisner, T.; Silber, J.)[2024AJ...167...62D](#)
- 135.- **WHaD diagram: Classifying the ionizing source with one single emission line**
Sánchez, S. F.; Lugo-Aranda, A. Z.; Sánchez Almeida, J.; Barrera-Ballesteros, J. K.; Gonzalez-Martín, O.; Salim, S.; Agostino, C. J.[2024A&A...682A..71S](#)
- 136.- **XMM-Newton-discovered Fast X-ray Transients: host galaxies and limits on contemporaneous detections of optical counterparts**
Eappachen, D. *et al.* (incluye a Mata Sánchez, D.; Torres, M. A. P.)[2024MNRAS.52711823E](#)
- 137.- **A comparative study of resistivity models for simulations of magnetic reconnection in the solar atmosphere. II. Plasmoid formation**
Færder, Ø. H.; Nóbrega-Siverio, D.; Carlsson, M.[2024A&A...683A..95F](#)
- 138.- **A post-merger enhancement only in star-forming Type 2 Seyfert galaxies: the deep learning view**
Avirett-Mackenzie, M. S.; Villforth, C.; Huertas-Company, M.; Wuyts, S.; Alexander, D. M.; Bonoli, S.; Lapi, A.; Lopez, I. E.; Ramos Almeida, C.; Shankar, F.[2024MNRAS.528.6915A](#)
- 139.- **A Very-High-Energy Gamma-Ray View of the Transient Sky**
Carosi, Alessandro; López-Oramas, Alicia[2024Univ...10..163C](#)
- 140.- **Absence of radio-bright dominance in a near-infrared selected sample of red quasars**
Vejlgaard, S.; Fynbo, J. P. U.; Heintz, K. E.; Krogager, J. K.; Møller, P.; Geier, S. J.; Christensen, L.; Ma, G.[2024A&A...683A.157V](#)
- 141.- **Accretion-induced flickering variability among symbiotic stars from space photometry with NASA TESS**
Merc, J.; Beck, P. G.; Mathur, S.; García, R. A.[2024A&A...683A..84M](#)
- 142.- **Catalogue of BRITE-Constellation targets. I. Fields 1 to 14 (November 2013-April 2016)**
Zwintz, K. *et al.* (incluye a Beck, P. G.)[2024A&A...683A..49Z](#)
- 143.- **Characterising the intra-cluster light in The Three Hundred simulations**
Contreras-Santos, A.; Knebe, A.; Cui, W.; Alonso Asensio, I.; Dalla Vecchia, C.; Cañas, R.; Haggar, R.; Mostoghiu Paun, R. A.; Pearce, F. R.; Rasia, E.[2024A&A...683A..59C](#)
- 144.- **Characterization of Herschel-selected strong lens candidates through HST and sub-mm/mm observations**
Borsato, E. *et al.* (incluye a Dannerbauer, H.; Pérez-Fournon, I.)[2024MNRAS.528.6222B](#)
- 145.- **Characterizing the ELG luminosity functions in the nearby Universe**
Favole, G. *et al.*[2024A&A...683A..46F](#)
- 146.- **CHEOPS observations of KELT-20 b/MASCARA-2 b: An aligned orbit and signs of variability from a reflective day side**
Singh, V. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.)[2024A&A...683A...1S](#)
- 147.- **Comparing Observed with Simulated Solar-disk-center Scattering Polarization in the Sr I 4607 Å Line**
Zeuner, Franziska; del Pino Alemán, Tanausú; Trujillo Bueno, Javier; Solanki, Sami K.[2024ApJ...964...10Z](#)
- 148.- **Complex K: Supernova Origin of Anomalous-velocity H I Structure**
Verschuur, G. L.; Schmelz, J. T.; Escorza, A.; Jorissen, A.[2024ApJ...963...87V](#)
- 149.- **Confirmation of a Sub-Saturn-size Transiting Exoplanet Orbiting a G Dwarf: TOI-1194 b and a Very Low Mass Companion Star: TOI-1251 B from TESS**
Wang, Jia-Qi *et al.* (incluye a Murgas, Felipe)[2024RAA...24c5012W](#)

- 150.- Deconvolution of JWST/MIRI Images: Applications to an Active Galactic Nucleus Model and GATOS Observations of NGC 5728**
Leist, M. T. *et al.* (incluye a **García-Lorenzo, B.**; **Ramos Almeida, C.**)[2024AJ....167...96L](#)
- 151.- Density discrepancy between transit-timing variations and radial velocity: Insights from the host star composition**
Adibekyan, V.; Sousa, S. G.; Delgado Mena, E.; Santos, N. C.; Israelian, G.; Barros, S. C. C.; Martirosyan, Zh.; Hakobyan, A. A.[2024A&A...683A.159A](#)
- 152.- Detection of an intranight optical hard lag with colour variability in blazar PKS 0735+178**
McCall, Callum; Jermak, Helen E.; Steele, Iain A.; Kobayashi, Shiho; Knapen, Johan H.; Sánchez-Alarcón, Pablo M.[2024MNRAS.528.4702M](#)
- 153.- Discovery prospects with the Dark-photons & Axion-like particles Interferometer**
De Miguel, Javier; Hernández-Cabrera, Juan F.; Hernández-Suárez, Elvio; Joven-Álvarez, Enrique; Otani, Chiko; Alberto Rubiño-Martín, J.; DALI Collaboration[2024PhRvD.109f2002D](#)
- 154.- Dynamical Architectures of S-type Transiting Planets in Binaries. I. Target Selection Using Hipparcos and Gaia Proper Motion Anomalies**
Zhang, Jingwen *et al.* (incluye a **Murgas, Felipe**; **Palle, Enric**)[2024AJ....167...89Z](#)
- 155.- Dynamics of 2023 FW₁₄, the second L₄ Mars trojan, and a physical characterization using the 10.4 m Gran Telescopio Canarias**
de la Fuente Marcos, R.; de León, J.; de la Fuente Marcos, C.; Alarcon, M. R.; Licandro, J.; Serra-Ricart, M.; Geier, S.; Cabrera-Lavers, A.[2024A&A...683L..14D](#)
- 156.- Effects of density and temperature variations on the metallicity of Mrk 71**
Méndez-Delgado, J. Eduardo; Esteban, César; García-Rojas, Jorge; Kreckel, Kathryn; Peimbert, Manuel[2024NatAs...8..275M](#)
- 157.- ERGO-ML: comparing IllustrisTNG and HSC galaxy images via contrastive learning**
Eisert, Lukas; Bottrell, Connor; Pillepich, Annalisa; Shimakawa, Rhythm; Rodriguez-Gomez, Vicente; Nelson, Dylan; Angeloudi, Eirini; Huertas-Company, Marc[2024MNRAS.528.7411E](#)
- 158.- Euclid preparation. XXXIV. The effect of linear redshift-space distortions in photometric galaxy clustering and its cross-correlation with cosmic shear**
Euclid Collaboration *et al.* (incluye a **Colodro-Conde, C.**; **Balaguera-Antolínez, A.**)[2024A&A...683A..17E](#)
- 159.- Euclid preparation. XXXV. Covariance model validation for the two-point correlation function of galaxy clusters**
Euclid Collaboration *et al.* (incluye a **Rebolo-Lopez, R.**; **Colodro-Conde, C.**; **Balaguera-Antolínez, A.**)[2024A&A...683A.253E](#)
- 160.- Euclid: Improving the efficiency of weak lensing shear bias calibration. Pixel noise cancellation and the response method on trial**
Jansen, H. *et al.* (incluye a **Colodro-Conde, C.**)[2024A&A...683A.240J](#)
- 161.- Evidence for Evolved Stellar Binary Mergers in Observed B-type Blue Supergiants**
Menon, Athira *et al.* (incluye a **Lennon, Daniel J.**; **Herrero, Artemio**)[2024ApJ...963L..42M](#)
- 162.- Evidence for transit-timing variations of the 11 Myr exoplanet TOI-1227 b**
Almenara, J. M. *et al.* (incluye a **Murgas, F.**)[2024A&A...683A..96A](#)
- 163.- Examining the self-interaction of dark matter through central cluster galaxy offsets**
Cross, D. *et al.* (incluye a **Carnero Rosell, A.**)[2024MNRAS.529..52C](#)
- 164.- Extremely Red Galaxies at $z = 5-9$ with MIRI and NIRSpec: Dusty Galaxies or Obscured Active Galactic Nuclei?**
Barro, Guillermo *et al.* (incluye a **Huertas-Company, Marc**)[2024ApJ...963..128B](#)

- 165.- **Galaxies Going Bananas: Inferring the 3D Geometry of High-redshift Galaxies with JWST-CEERS**
Pandya, Viraj *et al.* (incluye a Huertas-Company, Marc)[2024ApJ...963...54P](#)
- 166.- **Global Coronal Magnetic Field Estimation Using Bayesian Inference**
Baweja, Upasna; Pant, Vaibhav; Arregui, Iñigo[2024ApJ...963...69B](#)
- 167.- **Infrared Spectroscopy of RNA Nucleosides in a Wide Range of Temperatures**
Iglesias-Groth, Susana; Cataldo, Franco; Marin-Dobrincic, Martina[2024Life...14..436I](#)
- 168.- **J-PLUS: Toward a homogeneous photometric calibration using Gaia BP/RP low-resolution spectra**
López-Sanjuan, C. *et al.* (incluye a Hernández-Monteagudo, C.)[2024A&A...683A..29L](#)
- 169.- **Kepler main-sequence solar-like stars: surface rotation and magnetic-activity evolution**
Santos, Ângela R. G.; Godoy-Rivera, Diego; Finley, Adam J.; Mathur, Savita; García, Rafael A.; Breton, Sylvain N.; Broomhall, Anne-Marie[2024FrASS..1156379S](#)
- 170.- **Magnetic field amplification and structure formation by the Rayleigh-Taylor instability (Corrigendum)**
Popescu Braileanu, B.; Lukin, V. S.; Khomenko, E.[2024A&A...683C...2P](#)
- 171.- **Mass estimates from optical modelling of the new TRAPUM redback PSR J1910-5320**
Dodge, O. G. *et al.* (incluye a Dhillon, V. S.)[2024MNRAS.528.4337D](#)
- 172.- **Measurement of D/H and $^{13}\text{C}/^{12}\text{C}$ ratios in methane ice on Eris and Makemake: Evidence for internal activity**
Grundy, W. M. *et al.* (incluye a Licandro, J.)[2024Icar..41115923G](#)
- 173.- **Metallofullerenes as potential candidates for the explanation of astrophysical phenomena**
Barzaga R.; Hou, G-L[10.1039/D4CP00146J](#)
- 174.- **NGDEEP Epoch 1: Spatially Resolved H α Observations of Disk and Bulge Growth in Star-forming Galaxies at $z \sim 0.6$ –2.2 from JWST NIRISS Slitless Spectroscopy**
Shen, Lu *et al.* (incluye a Huertas-Company, Marc)[2024ApJ...963L..49S](#)
- 175.- **Optical spectroscopy of blazars for the Cherenkov Telescope Array - III**
D'Ammando, F. *et al.* (incluye a Becerra González, J.)[2024A&A...683A.222D](#)
- 176.- **Optimal 1D Ly α forest power spectrum estimation - III. DESI early data**
Karaçaylı, Naim Göksel *et al.* (incluye a Sinigaglia, F.)[2024MNRAS.528.3941K](#)
- 177.- **Optimizing Space Telescopes' Thermal Performance through Uncertainty Analysis: Identification of Critical Parameters and Shaping Test Strategy Development**
Garcia-Luis, Uxia; Gomez-San-Juan, Alejandro M.; Navarro-Medina, Fermin; Ulloa-Sande, Carlos; Yñigo-Rivera, Alfonso; Peláez-Santos, Alba Eva[2024Aeros..11..231G](#)
- 178.- **Orbit of the Patroclus–Menoetius Binary System and Predictions for the 2024/2025 Mutual Events Season**
Brozović, Marina; Jacobson, Robert A.; Park, Ryan S.; Descamps, Pascal; Berthier, Jérôme; Pinilla-Alonso, Noemí; Popescu, Marcel; Licandro, Javier[2024AJ....167..104B](#)
- 179.- **Predicted asteroseismic detection yield for solar-like oscillating stars with PLATO**
Goupil, M. J. *et al.* (incluye a Mathur, S.)[2024A&A...683A..78G](#)
- 180.- **Probing the small-scale structure of the intergalactic medium with ESPRESSO: spectroscopy of the lensed QSO UM673**
Cristiani, Stefano *et al.* (incluye a González Hernández, Jonay I.; Rebolo, Rafael)[2024MNRAS.528.6845C](#)
- 181.- **Revealing the characteristics of the dark GRB 150309A: Dust extinguished or high-z?**
Castro-Tirado, A. J. *et al.* (incluye a Cepa, J.)[2024A&A...683A..55C](#)

- 182.- **Sardinia Radio Telescope observations of the Coma cluster**
Murgia, M. *et al.* (incluye a **Boschin, W.**)[2024MNRAS.528.6470M](#)
- 183.- **Solid state debromination of C 60 Br 24 back to C 60 with cesium iodide: kinetics, thermodynamics and mechanism**
Barzaga, Ransel; García-Hernández, D. Aníbal; Manchado, Arturo; Cataldo, Franco[2024FNCN...32..274B](#)
- 184.- **Stellar populations and the origin of thick disks in AURIGA simulations**
Pinna, Francesca; Walo-Martín, Daniel; Grand, Robert J. J.; Martig, Marie; Fragkoudi, Francesca; Gómez, Facundo A.; Marinacci, Federico; Pakmor, Rüdiger[2024A&A...683A.236P](#)
- 185.- **Strategies for optimal sky subtraction in the low surface brightness regime**
Watkins, Aaron E.; Kaviraj, Sugata; Collins, Chris C.; Knapen, Johan H.; Kelvin, Lee S.; Duc, Pierre-Alain; Román, Javier; Mihos, J. Christopher[2024MNRAS.528.4289W](#)
- 186.- **The cosmic web from perturbation theory**
Kitaura, F. -S.; Sinigaglia, F.; Balaguera-Antolínez, A.; Favole, G.[2024A&A...683A.215K](#)
- 187.- **The EBLM Project- XI. Mass, radius, and effective temperature measurements for 23 M-dwarf companions to solar-type stars observed with CHEOPS**
Swayne, M. I. *et al.* (incluye a **Alonso, R.**; **Pallé, E.**)[2024MNRAS.528.5703S](#)
- 188.- **The EDGE-CALIFA Survey: An Extragalactic Database for Galaxy Evolution Studies**
Wong, Tony *et al.* (incluye a **Dannerbauer, Helmut**)[2024ApJS..271...35W](#)
- 189.- **The elusive atmosphere of WASP-12 b. High-resolution transmission spectroscopy with CARMENES**
Czesla, S. *et al.* (incluye a **Orell-Miquel, J.**; **Pallé, E.**)[2024A&A...683A..67C](#)
- 190.- **The GAPS programme at TNG. LII. Spot modelling of V1298 Tau using the SpotCCF tool**
Di Maio, C. *et al.* (incluye a **Boschin, W.**; **Lorenzi, V.**)[2024A&A...683A.239D](#)
- 191.- **The Lyman- α forest catalogue from the Dark Energy Spectroscopic Instrument Early Data Release**
Ramírez-Pérez, César *et al.* (incluye a **Sinigaglia, F.**)[2024MNRAS.528.6666R](#)
- 192.- **The Plasma β in Quiet Sun Regions: Multi-instrument View**
Rodríguez-Gómez, Jenny M.; Kuckein, Christoph; González Manrique, Sergio J.; Saqri, Jonas; Veronig, Astrid; Gömöry, Peter; Podladchikova, Tatiana[2024ApJ...964...27R](#)
- 193.- **The Polarization of the Solar Ba II D₁ Line with Partial Frequency Redistribution and Its Magnetic Sensitivity**
Alsina Ballester, Ernest; del Pino Alemán, Tanausú; Trujillo Bueno, Javier[2024ApJ...964...64A](#)
- 194.- **The two rings of (50000) Quaoar (Corrigendum)**
Pereira, C. L. *et al.* (incluye a **Tatsumi, E.**)[2024A&A...683C...4P](#)
- 195.- **Three sub-Jovian-mass microlensing planets: MOA-2022-BLG-563Lb, KMT-2023-BLG-0469Lb, and KMT-2023-BLG-0735Lb**
Han, Cheongho *et al.* (incluye a **Fukui, Akihiko**)[2024A&A...683A.115H](#)
- 196.- **TOI-2266 b: A keystone super-Earth at the edge of the M dwarf radius valley**
Parviainen, H. *et al.* (incluye a **Murgas, F.**; **Esparza-Borges, E.**; **Peláez-Torres, A.**; **Palle, E.**; **Fukui, A.**; **Narita, N.**; **Béjar, V. J. S.**; **Morello, G.**; **Monelli, M.**; **Garcia, N. Abreu**; **Meni, P.**; **Nowak, G.**)[2024A&A...683A.170P](#)
- 197.- **TOI-4860 b, a short-period giant planet transiting an M3.5 dwarf**
Almenara, J. M. *et al.* (incluye a **Murgas, F.**)[2024A&A...683A.166A](#)

- 198.- **A Perspective on the Milky Way Bulge Bar as Seen from the Neutron-capture Elements Cerium and Neodymium with APOGEE**
Sales-Silva, J. V. *et al.* (incluye a Queiroz, A.; Masseron, T.; Allende Prieto, C.)[2024ApJ...965..119S](#)
- 199.- **An X-Ray and Radio View of the 2022 Reactivation of the Magnetar SGR J1935+2154**
Ibrahim, A. Y. *et al.* (incluye a Borghese, A.)[2024ApJ...965...87I](#)
- 200.- **Asymmetry in the atmosphere of the ultra-hot Jupiter WASP-76 b**
Demangeon, O. D. S. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.)[2024A&A...684A..27D](#)
- 201.- **Bayesian deep learning for cosmic volumes with modified gravity**
García-Farieta, Jorge Enrique; Hortúa, Héctor J.; Kitaura, Francisco-Shu[2024A&A...684A.100G](#)
- 202.- **CARMENES input catalog of M dwarfs. VII. New rotation periods for the survey stars and their correlations with stellar activity**
Shan, Y. *et al.* (incluye a Béjar, V. J. S.; Cardona Guillén, C.; Lodieu, N.; Pallé, E.)[2024A&A...684A...9S](#)
- 203.- **Constraining the stellar populations of ultra-diffuse galaxies in the MATLAS survey using spectral energy distribution fitting**
Buzzo, Maria Luisa *et al.* (incluye a Ferré-Mateu, Anna)[2024MNRAS.529.3210B](#)
- 204.- **Cool and data-driven: an exploration of optical cool dwarf chemistry with both data-driven and physical models**
Rains, Adam D.; Nordlander, Thomas; Monty, Stephanie; Casey, Andrew R.; Rojas-Ayala, Bárbara; Žerjal, Maruša; Ireland, Michael J.; Casagrande, Luca; McKenzie, Madeleine[2024MNRAS.529.3171R](#)
- 205.- **Euclid preparation. XXXVI. Modelling the weak lensing angular power spectrum**
Euclid Collaboration *et al.* (incluye a Colodro-Conde, C.; Balaguera-Antolínez, A.)[2024A&A...684A.138E](#)
- 206.- **Euclid preparation. XXXVII. Galaxy colour selections with Euclid and ground photometry for cluster weak-lensing analyses**
Euclid Collaboration *et al.* (incluye a Rebolo, R.; Colodro-Conde, C.; Huertas-Company, M.)[2024A&A...684A.139E](#)
- 207.- **First characterization of the emission behavior of Mrk 421 from radio to very high-energy gamma rays with simultaneous X-ray polarization measurements**
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.; Nieves Rosillo, M.; Njoh Ekoume, T.; Otero-Santos, J.; Vazquez Acosta, M.)[2024A&A...684A.127A](#)
- 208.- **Fundamental physics with ESPRESSO: a new determination of the D/H ratio towards PKS1937-101**
Guarneri, Francesco *et al.* (incluye a González Hernández, J. I.; Suárez Mascareño, Alejandro; Palle, Enric; Rebolo, Rafael; Génova Santos, Ricardo)[2024MNRAS.529..839G](#)
- 209.- **Land- and skylscapes of Hegra: an archaeoastronomical analysis of the Nabataean necropoleis**
Belmonte, J.A.; González-García, A.C.; AlMushawh, M.; Urrutia-Aparicio, M.; Rodríguez-Antón, A.[10.1007/s00004-024-00774-z](#)
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Altmannshofer, Wolfgang; Crivellin, Andreas; Haigh, Huw; Inguglia, Gianluca; Martin Camalich, Jorge[2024PhRvD.109g5008A](#)
- 211.- **Lyman continuum leaker candidates at $z \sim 3-4$ in the HDUV based on a spectroscopic sample of MUSE LAEs**
Kerutt, J. *et al.* (incluye a Montes, M.)[2024A&A...684A..42K](#)

- 212.- **MIGHTEE-H I: H I galaxy properties in the large-scale structure environment at z 0.37 from a stacking experiment**
Sinigaglia, Francesco *et al.* [2024MNRAS.529.4192S](#)
- 213.- **Multiwavelength variability analysis of Fermi-LAT blazars**
Peñil, P.; Otero-Santos, J.; Ajello, M.; Buson, S.; Domínguez, A.; Marcotulli, L.; Torres-Albà, N.; Becerra González, J.; Acosta-Pulido, J. A. [2024MNRAS.529.1365P](#)
- 214.- **Noema forming Cluster survEy (NICE): Discovery of a starbursting galaxy group with a radio-luminous core at $z = 3.95$**
Zhou, L. *et al.* (incluye a d'Eugenio, C.) [2024A&A...684A.196Z](#)
- 215.- **Observation and Modeling of the Circular Polarization of the Cr I Magnetic-field-induced Transition at 533.03 nm**
Li, Hao; del Pino Alemán, Tanausú; Trujillo Bueno, Javier; Zeuner, Franziska [2024ApJ...964..155L](#)
- 216.- **Observational Tests of Active Galactic Nuclei Feedback: An Overview of Approaches and Interpretation**
Harrison, Chris M.; Ramos Almeida, Cristina [2024Galax..12...17H](#)
- 217.- **OGLE-2014-BLG-0221Lb: A Jupiter Mass Ratio Companion Orbiting Either a Late-type Star or a Stellar Remnant**
Kirikawa, Rintaro *et al.* (incluye a Fukui, Akihiko) [2024AJ....167..154K](#)
- 218.- **Performance and first measurements of the MAGIC stellar intensity interferometer**
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.) [2024MNRAS.529.4387A](#)
- 219.- **Planets observed with CHEOPS. Two super-Earths orbiting the red dwarf star TOI-776**
Fridlund, M. *et al.* (incluye a Alonso, R.; Deeg, H.; Pallé, E.) [2024A&A...684A..12F](#)
- 220.- **Pre-perihelion monitoring of interstellar comet 2I/Borisov**
Prodan, George P. *et al.* (incluye a Licandro, Javier; de León, Julia; Văduvescu, Ovidiu; Pallé, Enric; Narita, Norio; Fukui, Akihiko; Murgas, Felipe) [2024MNRAS.529.3521P](#)
- 221.- **PRIMASS near-infrared study of the Erigone collisional family**
Harison, Brittany; De Prá, Mário; Pinilla-Alonso, Noemí; Lorenzi, Vania; de León, Julia; Morate, David; Licandro, Javier; Arredondo, Anicia; Campins, Humberto [2024Icar..41215973H](#)
- 222.- **Quasar Microlensing Statistics and Flux-ratio Anomalies in Lens Models**
Mediavilla, E.; Jiménez-Vicente, J.; Motta, V. [2024AJ....167..171M](#)
- 223.- **Revisiting the warm sub-Saturn TOI-1710b. The impact of stellar activity on the mass measurement**
Orell-Miquel, J. *et al.* (incluye a Carleo, I.; Murgas, F.; Nowak, G.; Pallé, E.; Masseron, T.) [2024A&A...684A..96O](#)
- 224.- **Soft-state optical spectroscopy of the black hole MAXI J1305-704**
Miceli, C. *et al.* (incluye a Mata Sánchez, D.; Muñoz-Darias, T.; Armas-Padilla, M.) [2024A&A...684A..67M](#)
- 225.- **Stellar halo density with LAMOST K and M giants**
López-Corredoira, M.; Tang, X. -C.; Tian, H.; Wang, H. -F.; Carraro, G.; Liu, C. [2024A&A...684A.135L](#)
- 226.- **Teegarden's Star revisited. A nearby planetary system with at least three planets**
Dreizler, S. *et al.* (incluye a Béjar, V. J. S.; Pallé, E.) [2024A&A...684A.117D](#)
- 227.- **The compact multi-planet system GJ 9827 revisited with ESPRESSO★**
Passegger, V. M. *et al.* (incluye a Suárez Mascareño, A.; González Hernández, J. I.; Rebolo, R.; Allende Prieto, C.; Génova Santos, R.; Nari, N.; Pallé, E.) [2024A&A...684A..22P](#)

- 228.- **The Dark Energy Survey Supernova Program: Cosmological Biases from Host Galaxy Mismatch of Type Ia Supernovae**
Qu, H. *et al.* (incluye a Carnero Rosell, A.)[2024ApJ...964..134Q](#)
- 229.- **The discovery space of ELT-ANDES. Stars and stellar populations**
Roederer, Ian U. *et al.* (incluye a Allende Prieto, Carlos; Aguado, David S.; González Hernández, J. I.)[2024ExA....57...17R](#)
- 230.- **The Gaia-ESO Survey: The DR5 analysis of the medium-resolution GIRAFFE and high-resolution UVES spectra of FGK-type stars**
Worley, C. C. *et al.* (incluye a González Hernández, J. I.)[2024A&A...684A.148W](#)
- 231.- **The Lockman-SpReSO project. Galactic flows in a sample of far-infrared galaxies**
González-Otero, Mauro *et al.* (incluye a Padilla-Torres, Carmen P.; Cepa, Jordi)[2024A&A...684A..31G](#)
- 232.- **The miniJPAS survey: Maximising the photo-z accuracy from multi-survey datasets with probability conflation**
Hernán-Caballero, A. *et al.* (incluye a Hernández-Monteagudo, C.)[2024A&A...684A..61H](#)
- 233.- **The size-luminosity relation of local active galactic nuclei from interferometric observations of the broad-line region**
GRAVITY Collaboration *et al.*[2024A&A...684A.167G](#)
- 234.- **The universal variability of the stellar initial mass function probed by the TIMER survey**
Martín-Navarro, Ignacio; de Lorenzo-Cáceres, Adriana; Gadotti, Dimitri A.; Méndez-Abreu, Jairo; Falcón-Barroso, Jesús; Sánchez-Blázquez, Patricia; Coelho, Paula; Neumann, Justus; van de Ven, Glenn; Pérez, Isabel[2024A&A...684A.110M](#)
- 235.- **The variability patterns of the TeV blazar PG 1553 + 113 from a decade of MAGIC and multiband observations**
MAGIC Collaboration *et al.* (incluye a Acciari, V. A.; Baxter, J.; Becerra González, J.; Cikota, S.; Colombo, E.; Fukazawa, Y.; García López, R. J.; Heckmann, L.; Herrera, J.; López-Moya, M.; López-Oramas, A.; Mirzoyan, R.; Molero González, M.; Molina, E.; Nishijima, K.; Njoh Ekoume, T.; Okumura, A.; Otero-Santos, J.)[2024MNRAS.529.3894M](#)
- 236.- **TOI-1199 b and TOI-1273 b: Two new transiting hot Saturns detected and characterized with SOPHIE and TESS**
Serrano Bell, J. *et al.* (incluye a Esparza-Borges, E.; Murgas, F.; Narita, N.; Palle, E.; Parviainen, H.)[2024A&A...684A...6S](#)
- 237.- **Ultra-deep imaging of NGC 1052-DF2 and NGC 1052-DF4 to unravel their origins**
Golini, Giulia; Montes, Mireia; Carrasco, Eleazar R.; Román, Javier; Trujillo, Ignacio[2024A&A...684A..99G](#)
- 238.- **VaTEST III: Validation of eight potential super-earths from TESS data**
Mistry, Priyashkumar *et al.* (incluye a Barkaoui, Khalid; Murgas, Felipe; Narita, Norio)[2024PASA...41...30M](#)
- 239.- **Wolf 327b: A new member of the pack of ultra-short-period super-Earths around M dwarfs**
Murgas, F. *et al.* (incluye a Pallé, E.; Orell-Miquel, J.; Carleo, I.; Barkaoui, K.; Enoc, G.; Esparza-Borges, E.; Fukui, A.; Geraldía-González, S.; Lodieu, N.; Narita, N.; Parviainen, H.)[2024A&A...684A..83M](#)
- 240.- **A study on poly(indene)**
Cataldo F.; Barzaga R.; García-Hernández D.A.; Manchado A.[10.1080/10601325.2024.2354406](#)
- 241.- **ALMA reveals a compact and massive molecular outflow driven by the young AGN in a nearby ULIRG**
Holden, Luke R.; Tadhunter, Clive; Audibert, Anelise; Oosterloo, Tom; Ramos Almeida, Cristina; Morganti, Raffaella; Pereira-Santaella, Miguel; Lamperti, Isabella[2024MNRAS.530..446H](#)

- 242.- Apparent correlation between extrinsic and intrinsic flux variations in the first gravitationally lensed quasar**
Goicoechea, L. J.; Shalyapin, V. N.; Oscoz, A.[2024MNRAS.530.2273G](#)
- 243.- Atmospheric Parameters and Abundances of Cool Red Giant Stars**
Dencs, Z. *et al.* (incluye a [Palle, P. L.](#))[2024PASP..136e4202D](#)
- 244.- Baryonic properties of nearby galaxies across the stellar-to-total dynamical mass relation**
Scholz-Díaz, Laura; Martín-Navarro, Ignacio; Falcón-Barroso, Jesús; Lyubenova, Mariya; van de Ven, Glenn[2024NatAs...8..648S](#)
- 245.- Characterization of starspots on a young M-dwarf K2-25: multiband observations of stellar photometric variability and planetary transits**
Mori, Mayuko *et al.* (incluye a [Fukui, Akihiko](#); [Narita, Norio](#); [Murgas, Felipe](#); [Palle, Enric](#); [Parviainen, Hannu](#); [Fernández Rodríguez, Gareb](#))[2024MNRAS.530..167M](#)
- 246.- Confronting fuzzy dark matter with the rotation curves of nearby dwarf irregular galaxies (Corrigendum)**
Bañares-Hernández, Andrés; Castillo, Andrés; Martín Camalich, Jorge; Iorio, Giuliano[2024A&A...685C...4B](#)
- 247.- Constraints on axion-like particles with the Perseus Galaxy Cluster with MAGIC**
Abe, H. *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.](#); [Otero-Santos, J.](#); [Vazquez Acosta, M.](#))[2024PDU....4401425A](#)
- 248.- Detailed chemical composition of the globular cluster Sextans A GC-1 on the outskirts of the Local Group**
Gvozdenko, A.; Larsen, S. S.; Beasley, M. A.; Cabrera-Ziri, I.; Eitner, P.; Battaglia, G.; Leaman, R.[2024A&A...685A.154G](#)
- 249.- Discovery of two warm mini-Neptunes with contrasting densities orbiting the young K3V star TOI-815**
Psaridi, Angelica *et al.* (incluye a [Alonso, Roi](#); [Murgas, Felipe](#); [Pallé, Enric](#); [Villaver, Eva](#))[2024A&A...685A...5P](#)
- 250.- Dramatic Drop in the X-Ray Polarization of Swift J1727.8–1613 in the Soft Spectral State**
Svoboda, Jiří *et al.* (incluye a [Muñoz-Darias, Teo](#))[2024ApJ...966L..35S](#)
- 251.- Euclid preparation. XL. Impact of magnification on spectroscopic galaxy clustering**
Euclid Collaboration *et al.* (incluye a [Rebolo, R.](#); [Colodro-Conde, C.](#); [Balaguera-Antolínez, A.](#))[2024A&A...685A.167E](#)
- 252.- Euclid preparation. XXXIX. The effect of baryons on the halo mass function**
Euclid Collaboration *et al.* (incluye a [Rebolo, R.](#); [Colodro-Conde, C.](#))[2024A&A...685A.109E](#)
- 253.- Euclid preparation. XXXVIII. Spectroscopy of active galactic nuclei with NISP**
Euclid Collaboration *et al.* (incluye a [Rebolo, R.](#); [Colodro-Conde, C.](#))[2024A&A...685A.108E](#)
- 254.- Gaia Focused Product Release: A catalogue of sources around quasars to search for strongly lensed quasars**
Gaia Collaboration *et al.* (incluye a [Hidalgo, S. L.](#))[2024A&A...685A.130G](#)
- 255.- Galaxy morphology from $z \sim 6$ through the lens of JWST**
Huertas-Company, M. *et al.* (incluye a [Angeloudi, E.](#); [Sarmiento, R.](#); [Vega-Ferrero, J.](#))[2024A&A...685A..48H](#)
- 256.- High-resolution Spectroscopic Reconnaissance of a Temperate Sub-Neptune**
Cabot, Samuel H. C.; Madhusudhan, Nikku; Constantinou, Savvas; Valencia, Diana; Vos, Johanna M.; Masseron, Thomas; Cheverall, Connor J.[2024ApJ...966L..10C](#)

- 257.- **HST Survey of the Orion Nebula Cluster in ACS/Visible and WFC3/IR Bands. IV. A Bayesian Multiwavelength Study of Stellar Parameters in the Orion Nebula Cluster**
Strampelli, Giovanni M.; Robberto, Massimo; Pueyo, Laurent; Gennaro, Mario; Manara, Carlo F.; Sabbi, Elena; Aparicio, Antonio [2024ApJ...967...52S](#)
- 258.- **Identification of the Top TESS Objects of Interest for Atmospheric Characterization of Transiting Exoplanets with JWST**
Hord, Benjamin J. *et al.* (incluye a Barkaoui, Khalid; Fukui, Akihiko; Narita, Norio; Palle, Enric) [2024AJ....167..233H](#)
- 259.- **Insights into the broadband emission of the TeV blazar Mrk 501 during the first X-ray polarization measurements**
MAGIC Collaboration *et al.* (incluye a Abe, S.; Becerra González, J.; Colombo, E.; García López, R. J.; Herrera, J.; López-Oramas, A.; Molero González, M.; Molina, E.; Otero-Santos, J.) [2024A&A...685A.117M](#)
- 260.- **JWST Photometric Time-delay and Magnification Measurements for the Triply Imaged Type Ia "SN H0pe" at $z = 1.78$**
Pierel, J. D. R. *et al.* (incluye a Pérez-Fournon, I.; Poidevin, F.) [2024ApJ...967...50P](#)
- 261.- **KMT-2023-BLG-1431Lb: A New $q < 10^{-4}$ Microlensing Planet from a Subtle Signature**
Bell, Aislyn *et al.* (incluye a Fukui, Akihiko) [2024PASP..136e4402B](#)
- 262.- **Long-term variability in debris transiting white dwarfs**
Aungwerojwit, Amornrat; Gänsicke, Boris T.; Dhillon, Vikram S.; Drake, Andrew; Inight, Keith; Kaye, Thomas G.; Marsh, T. R.; Mullen, Ed; Pelisoli, Ingrid; Swan, Andrew [2024MNRAS.530..117A](#)
- 263.- **Morphology and Kinematics of the Gas in M51: How Interaction with NGC 5195 Has Molded the Structure of Its Arms**
Font, Joan; Beckman, John E.; Epinat, Benoît; Dobbs, Clare L.; Querejeta, Miguel [2024ApJ...966..110F](#)
- 264.- **Nature versus nurture: distinguishing effects from stellar processing and chemical evolution on carbon and nitrogen in red giant stars**
Roberts, John D. *et al.* (incluye a Mathur, Savita) [2024MNRAS.530..149R](#)
- 265.- **Near-infrared spectroscopic indices for unresolved stellar populations. III. Composite indices definition as age and metallicity tracers and model comparison**
Gasparri, D. *et al.* (incluye a Méndez-Abreu, J.; Aguerri, J. A. L.) [2024MNRAS.530..560G](#)
- 266.- **NGTS-28Ab: a short period transiting brown dwarf**
Henderson, Beth A. *et al.* (incluye a Barkaoui, Khalid) [2024MNRAS.530..318H](#)
- 267.- **Nonlinear Wave Damping by Kelvin–Helmholtz Instability-induced Turbulence**
Hillier, Andrew; Arregui, Iñigo; Matsumoto, Takeshi [2024ApJ...966...68H](#)
- 268.- **Overmassive Black Holes at Cosmic Noon: Linking the Local and the High-redshift Universe**
Mezcua, Mar; Pacucci, Fabio; Suh, Hyewon; Siudek, Malgorzata; Natarajan, Priyamvada [2024ApJ...966L..30M](#)
- 269.- **ReveaLLAGN 0: First Look at JWST MIRI Data of Sombrero and NGC 1052**
Goold, Kameron *et al.* (incluye a Prieto, Almudena) [2024ApJ...966..204G](#)
- 270.- **Secondary halo bias through cosmic time. I. Scaling relations and the connection with the cosmic web**
Balaguera-Antolínez, Andrés; Montero-Dorta, Antonio D.; Favole, Ginevra [2024A&A...685A..61B](#)
- 271.- **TESS and ESPRESSO discover a super-Earth and a mini-Neptune orbiting the K-dwarf TOI-238***
Suárez Mascareño, A. *et al.* (incluye a Passegger, V. M.; González Hernández, J. I.; Rebolo, R.; Allende Prieto, C.; Nari, N.; Pallé, E.; Stefanov, A. K.) [2024A&A...685A..56S](#)

- 272.- TeV pion bumps in the gamma-ray spectra of flaring blazars**
Petropoulou, M.; Mastichiadis, A.; Vasilopoulos, G.; Paneque, D.; **Becerra González, J.**; Zanias, F.[2024A&A...685A.110P](#)
- 273.- The APO-K2 Catalog. II. Accurate Stellar Ages for Red Giant Branch Stars across the Milky Way**
Warfield, Jack T. *et al.* (incluye a **Mathur, Savita**)[2024AJ....167..208W](#)
- 274.- The double low-mass white dwarf eclipsing binary system J2102-4145 and its possible evolution**
Antunes Amaral, L.; Munday, J.; Vučković, M.; Pelisoli, I.; Németh, P.; Zorotovic, M.; Marsh, T. R.; Littlefair, S. P.; **Dhillon, V. S.**; Brown, A. J.[2024A&A...685A...9A](#)
- 275.- The extent and power of 'maintenance mode' feedback in MaNGA AGN**
Gatto, Lara; Storchi-Bergmann, T.; Riffel, Rogemar A.; **Riffel, Rogério**; Rembold, Sandro B.; Schimoia, Jaderson S.; Mallmann, Nicolas D.; Ilha, Gabriele S.[2024MNRAS.530.3059G](#)
- 276.- The first measurements of carbon isotopic ratios in post-RGB stars: SZ Mon and DF Cyg**
Mohorian, Maksym; Kamath, Devika; Menon, Meghna; Ventura, Paolo; Van Winckel, Hans; **García-Hernández, D. A.**; Masseron, Thomas[2024MNRAS.530..761M](#)
- 277.- The Gaia-ESO Survey: Calibrating the lithium-age relation with open clusters and associations. II. Expanded cluster sample and final membership selection**
Gutiérrez Albarrán, M. L. *et al.* (incluye a **González Hernández, J. I.**)[2024A&A...685A..83G](#)
- 278.- The metal-poor edge of the Milky Way's "thin disc"**
Fernández-Alvar, Emma *et al.* (incluye a **Battaglia, Giuseppina**; **Gallart, Carme**; **Thomas, Guillaume**)[2024A&A...685A.151F](#)
- 279.- The NOEMA observations of GN-z11: constraining the neutral interstellar medium and dust formation in the heart of cosmic reionization at $z = 10.6$**
Fudamoto, Y. *et al.* (incluye a **Dannerbauer, H.**; **Pérez-Fournon, I.**)[2024MNRAS.530..340F](#)
- 280.- The Pristine Inner Galaxy Survey - VIII. Characterizing the orbital properties of the ancient, very metal-poor inner Milky Way**
Ardern-Arentsen, Anke *et al.* (incluye a **Queiroz, Anna B. A.**; **Aguado, David S.**)[2024MNRAS.530.3391A](#)
- 281.- The tidal deformation and atmosphere of WASP-12 b from its phase curve★**
Akisanmi, B. *et al.* (incluye a **Alonso, R.**; **Pallé, E.**; **Villaver, E.**)[2024A&A...685A..63A](#)
- 282.- The wide-field, multiplexed, spectroscopic facility WEAVE: Survey design, overview, and simulated implementation**
Jin, Shoko *et al.* (incluye a **Aguerri, J. A. L.**; **Falcón-Barroso, Jesús**; **Balcells, Marc**; **Barrena, R.**; **Battaglia, Giuseppina**; **Domínguez-Palmero, Lilian**; **Fariña, Cecilia**; **Knapen, Johan H.**; **Méndez-Abreu, Jairo**; **Molaeinezhad, Alireza**; **Thomas, Guillaume**; **Allende Prieto, Carlos**; **Britavskiy, Nikolay**; **de Burgos, Abel**; **Dorda, Ricardo**; **Ferré-Mateu, Anna**; **Herrero, Artemio**; **Rubiño-Martín, Jose Alberto**; **Simón-Díaz, Sergio**; **Zurita, Cristina**)[2024MNRAS.530.2688J](#)
- 283.- TOI-1135 b: A young hot Saturn-size planet orbiting a solar-type star**
Mallorquín, M. *et al.* (incluye a **Lodieu, N.**; **Béjar, V. J. S.**; **Alarcon, M. R.**; **Serra-Ricart, M.**; **Orell-Miquel, J.**; **Barkaoui, K.**)[2024A&A...685A..90M](#)
- 284.- TOI-4438 b: a transiting mini-Neptune amenable to atmospheric characterization**
Goffo, E. *et al.* (incluye a **Murgas, F.**; **Morello, G.**; **Orell-Miquel, J.**; **Pallé, E.**; **Geraldía-González, S.**; **Lodieu, N.**; **Béjar, V. J. S.**; **Esparza-Borges, E.**; **Fukui, A.**; **Narita, N.**; **Parviainen, H.**; **Mallorquín, M.**)[2024A&A...685A.147G](#)
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Cointepas, M. *et al.* (incluye a **Fukui, A.**; **Murgas, F.**; **Narita, N.**; **Palle, E.**)[2024A&A...685A..19C](#)

- 286.- TREASUREHUNT: Transients and Variability Discovered with HST in the JWST North Ecliptic Pole Time-domain Field**
O'Brien, Rosalia *et al.* (incluye a **Dhillon, V. S.**)[2024ApJS..272...19O](#)
- 287.- 2023 DZ2 Planetary Defense Campaign**
Reddy, Vishnu *et al.* (incluye a **Alarcon, Miguel R.**; **de León, Julia**; **Licandro, Javier**; **Maestriperi, Martina**; **Serra-Ricart, Miquel**)[2024PSJ.....5..141R](#)
- 288.- A 20 kiloparsec bipolar Lyman α outflow from a radio galaxy at $z = 2.95$**
Coloma Puga, M.; Balmaverde, B.; Capetti, A.; **Ramos Almeida, C.**; Massaro, F.; Venturi, G.[2024A&A...686A.220C](#)
- 289.- A Catalogue and analysis of ultra-diffuse galaxy spectroscopic properties**
Gannon, Jonah S.; **Ferré-Mateu, Anna**; Forbes, Duncan A.; Brodie, Jean P.; Buzzo, Maria Luisa; Romanowsky, Aaron J.[2024MNRAS.531.1856G](#)
- 290.- A dusty protocluster surrounding the binary galaxy HerBS-70 at $z = 2.3$**
Bakx, Tom J. L. C. *et al.* (incluye a **Dannerbauer, H.**; **Perez-Fournon, I.**)[2024MNRAS.530.4578B](#)
- 291.- A SART-Based Iterative Inversion Methodology to Infer the Solar Rotation Rate from Global Helioseismic Data**
Korzennik, Sylvain G.; **Eff-Darwich, Antonio**[2024SoPh..299...86K](#)
- 292.- A survey for radio emission from white dwarfs in the VLA Sky Survey**
Pelisoli, Ingrid *et al.* (incluye a **Dhillon, V. S.**)[2024MNRAS.531.1805P](#)
- 293.- A universal method for solar filament detection from H α observations using semi-supervised deep learning**
Diercke, Andrea; Jarolim, Robert; **Kuckein, Christoph**; **González Manrique, Sergio J.**; Ziener, Marco; Veronig, Astrid M.; Denker, Carsten; Pötzi, Werner; Podladchikova, Tatiana; Pevtsov, Alexei A.[2024A&A...686A.213D](#)
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Esposito, Federico *et al.* (incluye a **García-Lorenzo, Begoña**; **Ramos Almeida, Cristina**)[2024A&A...686A..46E](#)
- 295.- An arcsecond view at 1-2 GHz into the Galactic Bulge**
Pattie, E. C. *et al.* (incluye a **Torres, M. A. P.**)[2024MNRAS.531.2191P](#)
- 296.- Analysis of galaxies at the extremes: a kinematic analysis of the Virgo cluster dwarfs VCC 9 and VCC 1448 using the Keck cosmic web imager**
Gannon, Jonah S. *et al.* (incluye a **Ferré-Mateu, Anna**)[2024MNRAS.531.1789G](#)
- 297.- Asteroid reflectance spectra from Gaia DR3: Near-UV in primitive asteroids**
Tinaut-Ruano, F.; **de León, J.**; Tatsumi, E.; Morate, D.; Mahlke, M.; Tanga, P.; **Licandro, J.**[2024A&A...686A..76T](#)
- 298.- Atacama Large Aperture Submillimeter Telescope (AtLAST) science: Surveying the distant Universe**
van Kampen, Eelco *et al.* (incluye a **Dannerbauer, Helmut**; **Hatziminaoglou, Evanthia**)[2024ORE....4..122V](#)
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Lee, Minju *et al.* (incluye a **Dannerbauer, Helmut**; **Hatziminaoglou, Evanthia**)[2024ORE....4..117L](#)
- 300.- Boron Abundances in Early B Dwarfs of the Galactic Open Cluster NGC 3293**
Proffitt, Charles R.; Jin, Harim; Daflon, Simone; **Lennon, Daniel J.**; Langer, Norbert; Cunha, Katia; Monroe, Talawanda[2024ApJ...968....1P](#)
- 301.- Changing Look of the Optical Spectrum of the MeV Blazar PKS 0446+112 (4FGL J0449.1+1121)**
Paiano, Simona; Falomo, Renato; Treves, Aldo; **Scarpa, Riccardo**; Sbarufatti, Boris[2024ApJ...968...81P](#)

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Krenn, A. F. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.)[2024A&A...686A.301K](#)
- 303.-** Charting the Galactic Acceleration Field. II. A Global Mass Model of the Milky Way from the STREAMFINDER Atlas of Stellar Streams Detected in Gaia DR3
Ibata, Rodrigo *et al.* (incluye a Thomas, Guillaume)[2024ApJ...967...89I](#)
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Toribio San Cipriano, L. *et al.* (incluye a Carnero Rosell, A.)[2024A&A...686A..38T](#)
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Zhang, Yuanyuan *et al.* (incluye a Carnero Rosell, A.)[2024MNRAS.531..510Z](#)
- 306.-** Detailed cool star flare morphology with CHEOPS and TESS***
Bruno, G. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.)[2024A&A...686A.239B](#)
- 307.-** Detection of extragalactic magnetic massive stars
Hubrig, S.; Schöller, M.; Järvinen, S. P.; Cikota, A.; Abdul-Masih, M.; Escorza, A.; Jayaraman, R.[2024A&A...686L...4H](#)
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Pancino, E. *et al.* (incluye a Monelli, M.)[2024A&A...686A.283P](#)
- 309.-** Discovery of a dormant 33 solar-mass black hole in pre-release Gaia astrometry
Gaia Collaboration *et al.* (incluye a Hidalgo, S. L.)[2024A&A...686L...2G](#)
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Jaber, Mariana; Hellwing, Wojciech A.; García-Farieta, Jorge E.; Gupta, Suhani; Bilicki, Maciej[2024PhRvD.109I3528J](#)
- 311.-** Evidence for very massive stars in extremely UV-bright star-forming galaxies at $z \sim 2.2-3.6$
Upadhyaya, A.; Marques-Chaves, R.; Schaerer, D.; Martins, F.; Pérez-Fournon, I.; Palacios, A.; Stanway, E. R.[2024A&A...686A.185U](#)
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Žerjal, M.; Martín, E. L.; Pérez-Garrido, A.[2024A&A...686A.161Z](#)
- 313.-** GLACE survey: OSIRIS/GTC tuneable imaging of the galaxy cluster ZwCl 0024.0+1652. II. The mass-metallicity relationship and the effect of the environment
Cedrés, Bernabé *et al.* (incluye a Cepa, Jordi; González-Otero, Mauro; Padilla-Torres, Camen P.)[2024A&A...686A..60C](#)
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Dholakia, Shishir *et al.* (incluye a Boschin, Walter)[2024MNRAS.531.1276D](#)
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Kuzuhara, Masayuki *et al.* (incluye a Fukui, Akihiko; Murgas, Felipe; Narita, Norio; Orell-Miquel, Jaume; Palle, Enric; Esparza-Borges, Emma; Parviainen, Hannu; Abreu García, Néstor; Béjar, Víctor J. S.; Calatayud-Borras, Yéssica; Carleo, Ilaria; Fernández-Rodríguez, Gareb; Galán, Daniel; Geraldía-González, Samuel; González-García, Josafat; Libotte, Florence; Meni Gallardo, Pedro Pablo; Morello, Giuseppe; Muñoz Torres, Sara; Peláez-Torres, Alberto; Sánchez-Benavente, Manuel)[2024ApJ...967L..21K](#)
- 316.-** Hidden Gems on a Ring: Infant Massive Clusters and Their Formation Timeline Unveiled by ALMA, HST, and JWST in NGC 3351
Sun, Jiayi *et al.* (incluye a Pinna, Francesca)[2024ApJ...967..133S](#)
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Sulis, S. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.)[2024A&A...686L..18S](#)

- 318.- Impact of beam far side-lobe knowledge in the presence of foregrounds for LiteBIRD**
Leloup, C. *et al.* (include a Génova-Santos, R. T.)[2024JCAP...06..011L](#)
- 319.- Impacts of Bar-driven Shear and Shocks on Star Formation**
Kim, Taehyun *et al.* (include a Méndez-Abreu, Jairo; de Lorenzo-Cáceres, Adriana)[2024ApJ...968..87K](#)
- 320.- INSPIRE: INvestigating Stellar Population In RElics - VI. The low-mass end slope of the stellar initial mass function and chemical composition**
Maksymowicz-Maciata, Michalina *et al.* (include a Martín-Navarro, Ignacio; Ferré-Mateu, Anna)[2024MNRAS.531.2864M](#)
- 321.- Lensed Type Ia Supernova "Encore" at $z = 2$: The First Instance of Two Multiply Imaged Supernovae in the Same Host Galaxy**
Pierel, J. D. R. *et al.* (include a Pérez-Fournon, I.; Poidevin, F.)[2024ApJ...967L..37P](#)
- 322.- LiteBIRD science goals and forecasts: a full-sky measurement of gravitational lensing of the CMB**
Lonappan, A. I. *et al.* (include a Génova-Santos, R. T.)[2024JCAP...06..009L](#)
- 323.- LiteBIRD science goals and forecasts: improving sensitivity to inflationary gravitational waves with multitracer delensing**
Namikawa, T. *et al.* (include a Rubino-Martin, J.)[2024JCAP...06..010N](#)
- 324.- LSPE-Strip on-sky calibration strategy using bright celestial sources**
Génova-Santos, R. T. *et al.* (include a López-Carballo, C.; Rubiño-Martín, J. A.)[2024JInst..19P6016G](#)
- 325.- Luminous giants populate the dense Cosmic Web. The radio luminosity-environmental density relation for radio galaxies in action**
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- 326.- Magnetic activity of red giants: Correlation between the amplitude of solar-like oscillations and chromospheric indicators**
Gehan, C.; Godoy-Rivera, D.; Gaulme, P.[2024A&A...686A..93G](#)
- 327.- Mixing, heating and ion-neutral decoupling induced by Rayleigh-Taylor instability in prominence-corona transition regions**
Lukin, Vyacheslav S.; Khomenko, Elena; Popescu Braileanu, Beatrice[2024RSPTA.38230417L](#)
- 328.- Modelling of surface brightness fluctuation measurements. Methodology, uncertainty, and recommendations**
Rodríguez-Beltrán, P.; Cerviño, M.; Vazdekis, A.; Beasley, M. A.[2024A&A...686A..62R](#)
- 329.- MUSE view of PDS 456: Kiloparsec-scale wind, extended ionized gas, and close environment**
Travascio, A. *et al.* (include a Ramos Almeida, C.)[2024A&A...686A.250T](#)
- 330.- NLTE modelling of water-rich exoplanet atmospheres. Cooling and heating rates**
García Muñoz, A.; Asensio Ramos, A.; Faure, A.[2024Icar..41516080G](#)
- 331.- Nodal precession of a hot Jupiter transiting the edge of a late A-type star TOI-1518**
Watanabe, Noriharu; Narita, Norio; Hori, Yasunori[2024PASJ...76..374W](#)
- 332.- Observational constraints on the stellar recycled gas in active galactic nuclei feeding**
Riffel, Rogério *et al.* (include a Vazdekis, Alexandre; Ramos Almeida, Cristina; Audibert, Anelise; Martín-Navarro, Ignacio)[2024MNRAS.531..554R](#)
- 333.- On the bright end of the UV luminosity functions of galaxies at z 0.6-1.2**
Sharma, M.; Page, M. J.; Ferreras, I.; Breeveld, A. A.[2024MNRAS.531.2040S](#)

- 334.- On the Pair-instability Supernova Origin of J1010+2358**
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- 335.- Optical properties of Y dwarfs observed with the Gran Telescopio Canarias**
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Otero-Santos, J. *et al.*[2024A&A...686A.228O](#)
- 337.- OzDES Reverberation Mapping Program: Stacking analysis with H β , Mg II, and C IV**
Malik, U. *et al.* (incluye a **Carnero Rosell, A.**)[2024MNRAS.531..163M](#)
- 338.- Precise characterisation of HD 15337 with CHEOPS: A laboratory for planet formation and evolution**
Rosário, N. M. *et al.* (incluye a **Alonso, R.; Pallé, E.; Villaver, E.**)[2024A&A...686A.282R](#)
- 339.- Quasars with flare/eclipse-like variability identified in ZTF**
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- 340.- Reconnaissance ultracool spectra in the Euclid Deep Fields**
Zhang, J. -Y.; Lodieu, N.; Martín, E. L.[2024A&A...686A.171Z](#)
- 341.- Recovery of the X-ray polarisation of Swift J1727.8–1613 after the soft-to-hard spectral transition**
Podgorný, J. *et al.* (incluye a **Muñoz-Darias, T.**)[2024A&A...686L..12P](#)
- 342.- Self-supervised component separation for the extragalactic submillimetre sky**
Bonjean, V.; Tanimura, H.; Aghanim, N.; Bonnaire, T.; Douspis, M.[2024A&A...686A..91B](#)
- 343.- Simultaneous NICER and NuSTAR observations of the ultraluminous source NGC 4190 ULX-1**
Combi, Jorge A.; Fogantini, Federico A.; **Saavedra, Enzo A.**; Romero, Gustavo E.; Abaroa, Leandro; García, Federico; Luque-Escamilla, Pedro; Martí, Josep; Cruz-Sanchez, Nelson[2024A&A...686A.121C](#)
- 344.- Small-scale magnetic flux emergence preceding a chain of energetic solar atmospheric events**
Nóbrega-Siverio, D.; Cabello, I.; Bose, S.; van der Voort, L. H. M. Rouppe; Joshi, R.; Froment, C.; Henriques, V. M. J.[2024A&A...686A.218N](#)
- 345.- SMARTY: The MILES moderate resolution near-infrared stellar library**
Bertoldo-Coêlho, Michele *et al.* (incluye a **Riffel, Rogério; Dametto, Natacha Zanon; Vazdekis, Alexandre; Martín-Navarro, Ignacio; Falcón-Barroso, Jesus**)[2024MNRAS.530.3651B](#)
- 346.- SN 2020pvh: A Type II-P supernova with a precursor outburst**
Elias-Rosa, N. *et al.* (incluye a **Geier, S.**)[2024A&A...686A..13E](#)
- 347.- Star-formation activity of low-mass galaxies at the peak epoch of galaxy formation probed by deep narrow-band imaging**
Daikuhara, Kazuki; Kodama, Tadayuki; **Pérez-Martínez, Jose M.**; Shimakawa, Rhythm; Suzuki, Tomoko L.; Tadaki, Ken-ichi; Koyama, Yusei; Tanaka, Ichi[2024MNRAS.531.2335D](#)
- 348.- Systematic KMTNet Planetary Anomaly Search. XI. Complete Sample of 2016 Subprime Field Planets**
Shin, In-Gu *et al.* (incluye a **Fukui, Akihiko**)[2024AJ....167..269S](#)
- 349.- The dependence of the magnetism of a near-limb sunspot on height**
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- 350.- The Detection and Investigation of Exoplanets with MASTER Global Network Telescopes**
Lipunov, V. M. *et al.* (incluye a Rebolo Lopez, R.)[2024ARep...68..557L](#)
- 351.- The Discovery and Follow-up of Four Transiting Short-period Sub-Neptunes Orbiting M Dwarfs**
Hori, Yasunori *et al.* (incluye a Fukui, Akihiko; Narita, Norio; Morello, Giuseppe; Abreu García, Nestor; Álvarez Hernández, Leticia; Béjar, Víctor J. S.; Calatayud-Borras, Yéssica; Carleo, Ilaria; Enoc, Gareb; Esparza-Borges, Emma; Galán, Daniel; Geraldía-González, Samuel; Murgas, Felipe; Orell-Miquel, Jaume; Palle, Enric; Parviainen, Hannu; Peláez-Torres, Alberto; Puig-Subirà, Marta; Sánchez-Benavente, Manuel; Sosa-Guillén, Paula; Muñoz Torres, Sara; Barkaoui, Khalid)[2024AJ....167..289H](#)
- 352.- The effects of environment on galaxies' dynamical structures: From simulations to observations**
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- 353.- The enigma of Gaia18cjb: A possible rare hybrid of FUor and EXor properties**
Fiorellino, Eleonora *et al.* (incluye a García-Álvarez, David)[2024A&A...686A.160F](#)
- 354.- The GALAH survey: tracing the Milky Way's formation and evolution through RR Lyrae stars**
D'Orazi, Valentina *et al.* (incluye a Monelli, Matteo; Tantaló, Maria)[2024MNRAS.531..137D](#)
- 355.- The GAPS Programme at TNG. LIV. A He I survey of close-in giant planets hosted by M-K dwarf stars with GIANO-B**
Guilluy, G. *et al.* (incluye a Boschín, W.; Carleo, I.)[2024A&A...686A..83G](#)
- 356.- The GAPS Programme at TNG. LV. Multiple molecular species in the atmosphere of HAT-P-11 b and review of the HAT-P-11 planetary system**
Basilicata, M. *et al.* (incluye a Carleo, I.)[2024A&A...686A.127B](#)
- 357.- The influence of thermal pressure gradients and ionization (im)balance on the ambipolar diffusion and charge-neutral drifts**
Gómez Míguez, M. M.; Martínez Gómez, D.; Khomenko, E.; Vitas, N.[2024RSPTA.38230228G](#)
- 358.- The Milky Way bar pattern speed using Hercules and Gaia DR3**
Lucchini, Scott; D'Onghia, Elena; Aguerri, J. Alfonso L.[2024MNRAS.531L..14L](#)
- 359.- Towards an observationally motivated AGN dusty torus model - I. Dust chemical composition from the modelling of Spitzer spectra**
Reyes-Amador, Omar Ulises; Fritz, Jacopo; González-Martín, Omaira; Srinivasan, Sundar; Baes, Maarten; Lopez-Rodriguez, Enrique; Osorio-Clavijo, Natalia; Victoria-Ceballos, Cesar Iván; Stalevski, Marko; Ramos Almeida, C.[2024MNRAS.531.1841R](#)
- 360.- Understanding the thermal and magnetic properties of an X-class flare in the low solar atmosphere**
Ferrente, F.; Quintero Noda, C.; Zuccarello, F.; Guglielmino, S. L.[2024A&A...686A.244F](#)
- 361.- Validation of a Third Planet in the LHS 1678 System**
Silverstein, Michele L. *et al.* (incluye a Murgas, Felipe; Palle, Enric)[2024AJ....167..255S](#)
- 362.- Variation of the stellar initial mass function in semi-analytical models. III. Testing the cosmic-ray regulated integrated galaxy-wide initial mass function**
Fontanot, Fabio; La Barbera, Francesco; De Lucia, Gabriella; Cecchi, Rachele; Xie, Lizhi; Hirschmann, Michaela; Bruzual, Gustavo; Charlot, Stéphane; Vazdekis, Alexandre[2024A&A...686A.302F](#)
- 363.- [Mg/Fe] and variable initial mass function: Revision of $[\alpha/\text{Fe}]$ for massive galaxies**
Pernet, Emilie; Boecker, Alina; Martín-Navarro, Ignacio[2024A&A...687L..14P](#)
- 364.- A fast neural emulator for interstellar chemistry**
Asensio Ramos, A.; Westendorp Plaza, C.; Navarro-Almáida, D.; Rivière-Marichalar, P.; Wakelam, V.; Fuente, A.[2024MNRAS.531.4930A](#)

- 365.- A roadmap for the atmospheric characterization of terrestrial exoplanets with JWST**
Trappist-1 Jwst Community Initiative, De Wit, Julien *et al.* (include a Barkaoui, Khalid)[2024NatAs...8..810T](#)
- 366.- Age of Massive Galaxies at Redshift 8**
López-Corredoira, M.; Melia, F.; Wei, J. -J.; Gao, C. -Y.[2024ApJ...970...63L](#)
- 367.- An extended low-density atmosphere around the Jupiter-sized planet WASP-193 b**
Barkaoui, Khalid *et al.*[2024NatAs...8..909B](#)
- 368.- An impressionist view of V Hydrae. When MATISSE paints asymmetric giant blobs**
Planquart, L. *et al.* (include a Escorza, A.)[2024A&A...687A.306P](#)
- 369.- AuriDESI: mock catalogues for the DESI Milky Way Survey**
Kizhuprakkat, Namitha *et al.* (include a Allende Prieto, Carlos)[2024MNRAS.531.4108K](#)
- 370.- Bayesian inference methodology to characterize the dust emissivity at far-infrared and submillimeter frequencies**
Adak, Debabrata; Shaikh, Shabbir; Sinha, Srijita; Ghosh, Tuhin; Boulanger, Francois; Lagache, Guilaine; Souradeep, Tarun; Miville-Deschênes, Marc-Antoine[2024MNRAS.531.4876A](#)
- 371.- CHEOPS in-flight performance. A comprehensive look at the first 3.5 yr of operations**
Fortier, A. *et al.* (include a Alonso, R.; Pallé, E.; Villaver, E.)[2024A&A...687A.302F](#)
- 372.- Chronology of our Galaxy from Gaia colour-magnitude diagram fitting (ChronoGal). I. The formation and evolution of the thin disc from the Gaia Catalogue of Nearby Stars**
Gallart, Carme *et al.* (include a Surot, Francisco; Fernández-Alvar, Emma; Battaglia, Giuseppina; Queiroz, Anna B.; Monelli, Matteo; Thomas, Guillaume F.)[2024A&A...687A.168G](#)
- 373.- Combining magneto-hydrostatic constraints with Stokes profile inversions. IV. Imposing $\nabla \cdot \mathbf{B} = 0$ condition**
Borrero, J. M.; Pastor Yabar, A.; Ruiz Cobo, B.[2024A&A...687A.155B](#)
- 374.- Comparison of optical spectra between asteroids Ryugu and Bennu: I. Cross calibration between Hayabusa2/ONC-T and OSIRIS-REx/MapCam**
Yumoto, K. *et al.* (include a de León, J.; Licandro, J.)[2024Icar..41716122Y](#)
- 375.- Constraints on Lorentz invariance violation from the extraordinary Mrk 421 flare of 2014 using a novel analysis method**
Abe, S. *et al.* (include 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.)[2024JCAP...07..044A](#)
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Forero Sánchez, D.; Kitaura, F. -S.; Sinigaglia, F.; Coloma-Nadal, J. M.; Kneib, J. -P.[2024JCAP...07..001F](#)
- 377.- Dark matter line searches with the Cherenkov Telescope Array**
Abe, S. *et al.* (include a Arnesen, T. T. H.; Becerra González, J.; López-Oramas, A.; Molero, M.; Molina, E.; Nievas Rosillo, M.; Vázquez Acosta, M.)[2024JCAP...07..047A](#)
- 378.- Debris Disks Can Contaminate Mid-infrared Exoplanet Spectra: Evidence for a Circumstellar Debris Disk around Exoplanet Host WASP-39**
Flagg, Laura *et al.* (include a Morello, Giuseppe)[2024ApJ...969L..19F](#)
- 379.- Dehydrogenation, polymerization and self-assembly in the inhibition of copper surfaces by an ultrathin imidazole film**
Barzaga, R.; Díaz-Tendero, S.; Díaz, J. A.; Cedillo, M. I.; Mendez-González, Y.; Esqueda-Barrón, Y.; Fariás, M. H.; Hernández, M. P.[2024Corro.23512168B](#)

- 380.- Detection of an Earth-sized exoplanet orbiting the nearby ultracool dwarf star SPECULOOS-3**
Gillon, Michaël *et al.* (include a Barkaoui, Khalid; Alonso, Roi; Narita, Norio; Fukui, Akihiko; Murgas, Felipe; Rebolo, Rafael)[2024NatAs...8..865G](#)
- 381.- Detection of Fe and Ti on the dayside of the ultrahot Jupiter MASCARA-1b with CARMENES**
Guo, B. *et al.* (include a Pallé, E.)[2024A&A...687A.103G](#)
- 382.- Detection of Na in the atmosphere of the hot Jupiter HAT-P-55b**
Kang, Huiyi; Chen, Guo; Jiang, Chengzi; Pallé, Enric; Murgas, Felipe; Parviainen, Hannu; Ma, Yuehua; Fukui, Akihiko; Narita, Norio[2024A&A...687A...9K](#)
- 383.- Do spiral arms enhance star formation efficiency?**
Querejeta, Miguel *et al.* (include a Pinna, Francesca)[2024A&A...687A.293Q](#)
- 384.- Euclid preparation. XLI. Galaxy power spectrum modelling in real space**
Euclid Collaboration *et al.* (include a Colodro-Conde, C.)[2024A&A...687A.216E](#)
- 385.- Excitation mechanisms of C II optical permitted lines in ionized nebulae**
Reyes-Rodríguez, E.; Méndez-Delgado, J. E.; García-Rojas, J.; Binette, L.; Nemer, A.; Esteban, C.; Kreckel, K.[2024A&A...687A..97R](#)
- 386.- Expanded Sample of Small Magellanic Cloud Ultraviolet Dust Extinction Curves: Correlations between the 2175 Å Bump, q_{PAH} , Ultraviolet Extinction Shape, and N(H I)/A(V)**
Gordon, Karl D.; Fitzpatrick, E. L.; Massa, Derck; Bohlin, Ralph; Chastenet, Jérémy; Murray, Claire E.; Clayton, Geoffrey C.; Lennon, Daniel J.; Misselt, Karl A.; Sandstrom, Karin[2024ApJ...970...51G](#)
- 387.- Exploring galaxy evolution time-scales in clusters: insights from the projected phase space**
Sampaio, V. M.; de Carvalho, R. R.; Aragón-Salamanca, A.; Merrifield, M. R.; Ferreras, I.; Cornwell, D. J.[2024MNRAS.532..982S](#)
- 388.- Extreme-ultraviolet (EUV) observables of simulated plasmoid-mediated reconnection in the solar corona**
Færder, Ø. H.; Nóbrega-Siverio, D.; Carlsson, M.; Martínez-Sykora, J.[2024A&A...687A.171F](#)
- 389.- Galaxy merger challenge: A comparison study between machine learning-based detection methods**
Margalef-Bentabol, B. *et al.* (include a Huertas-Company, M.)[2024A&A...687A..24M](#)
- 390.- Generic low-atmosphere signatures of swirled-anemone jets**
Joshi, Reetika; Aulanier, Guillaume; Radcliffe, Alice; Rouppe van der Voort, Luc; Pariat, Etienne; Nóbrega-Siverio, Daniel; Schmieder, Brigitte[2024A&A...687A.172J](#)
- 391.- HD 110067 c has an aligned orbit. Measuring the Rossiter-McLaughlin effect inside a resonant multi-planet system with ESPRESSO**
Zak, J. *et al.* (include a Fukui, A.; Jones, D.; Murgas, F.; Pallé, E.)[2024A&A...687L...2Z](#)
- 392.- Integral field spectroscopy supports atmospheric optics to reveal the finite outer scale of the turbulence**
García-Lorenzo, B.; Esparza-Arredondo, D.; Acosta-Pulido, J. A.; Castro-Almazán, J. A.[2024A&A...687A..40G](#)
- 393.- Ionised AGN outflows in the Goldfish galaxy: The illuminating and interacting red quasar eFEDSJ091157.4+014327 at $z \sim 0.6$**
Musiimenta, B. *et al.* (include a Speranza, G.; Ramos Almeida, C.)[2024A&A...687A.111M](#)
- 394.- LiteBIRD science goals and forecasts: primordial magnetic fields**
Paoletti, D. *et al.* (include a Rubiño-Martin, J. A.)[2024JCAP...07..086P](#)
- 395.- Mass calibration of DES Year-3 clusters via SPT-3G CMB cluster lensing**
Ansarinejad, B. *et al.* (include a Carnero Rosell, A.; Carretero, J.)[2024JCAP...07..024A](#)

- 396.- **Migration and Evolution of giant ExoPlanets (MEEP). I. Nine Newly Confirmed Hot Jupiters from the TESS Mission**
Schulte, Jack *et al.* (incluye a Barkaoui, Khalid; Murgas, Felipe; Narita, Norio; Esparza-Borges, Emma; Fukui, Akihiko; Palle, Enric; Parviainen, Hannu)[2024AJ....168...32S](#)
- 397.- **Nightside clouds and disequilibrium chemistry on the hot Jupiter WASP-43b**
Bell, Taylor J. *et al.* (incluye a Morello, Giuseppe; Palle, Enric)[2024NatAs...8..879B](#)
- 398.- **OCCASO. V. Chemical-abundance trends with Galactocentric distance and age**
Carbajo-Hijarrubia, J. *et al.* (incluye a Gallart, C.)[2024A&A...687A.239C](#)
- 399.- **PHANGS-HST Catalogs for ~100,000 Star Clusters and Compact Associations in 38 Galaxies. I. Observed Properties**
Maschmann, Daniel *et al.* (incluye a Pinna, Francesca)[2024ApJS..273...14M](#)
- 400.- **PHANGS-JWST: Data-processing Pipeline and First Full Public Data Release**
Williams, Thomas G. *et al.* (incluye a Pinna, Francesca)[2024ApJS..273...13W](#)
- 401.- **Radial gradients of CO absorptions and abundance ratios in the bulge of M31**
La Barbera, F.; Vazdekis, A.; Pasquali, A.; Heidt, J.; Gargiulo, A.; Eftekhari, E.[2024A&A...687A.156L](#)
- 402.- **Scrutinizing evidence for the triggering of active galactic nuclei in the outskirts of massive galaxy clusters at $z \approx 1$**
Muñoz Rodríguez, Iván; Georgakakis, Antonis; Shankar, Francesco; Ruiz, Ángel; Bonoli, Silvia; Comparat, Johan; Fu, Hao; Koulouridis, Elias; Lapi, Andrea; Ramos Almeida, Cristina[2024MNRAS.532..336M](#)
- 403.- **Search and analysis of giant radio galaxies with associated nuclei (SAGAN). IV. Interplay with the Supercluster environment**
Sankhyayan, Shishir; Dabhade, Pratik[2024A&A...687L...8S](#)
- 404.- **Self-consistent Combined HST, K-band, and Spitzer Photometric Catalogs of the BUFFALO Survey Fields**
Pagul, Amanda *et al.* (incluye a Montes, Mireia)[2024ApJS..273...10P](#)
- 405.- **Single-epoch and Differential Astrometric Microlensing of Quasars**
Forés-Toribio, R.; Mediavilla, E.; Muñoz, J. A.; Jiménez-Vicente, J.; Fian, C.; del Burgo, C.[2024ApJ...970...11F](#)
- 406.- **SPT-SZ MCMF: an extension of the SPT-SZ catalogue over the DES region**
Klein, M. *et al.* (incluye a Carnero Rosell, A.)[2024MNRAS.531.3973K](#)
- 407.- **Systematic analysis of jellyfish galaxy candidates in Fornax, Antlia, and Hydra from the S-PLUS survey: a self-supervised visual identification aid**
Gondhalekar, Yash *et al.* (incluye a Riffel, Rogério)[2024MNRAS.532..270G](#)
- 408.- **TESS Hunt for Young and Maturing Exoplanets (THYME). X. A Two-planet System in the 210 Myr MELANGE-5 Association**
Thao, Pa Chia *et al.* (incluye a Barkaoui, Khalid)[2024AJ....168...41T](#)
- 409.- **The CAVITY project: The spatially resolved stellar population properties of galaxies in voids**
Conrado, Ana M. *et al.* (incluye a Falcón-Barroso, Jesús; Ferré-Mateu, Anna; Román, Javier)[2024A&A...687A..98C](#)
- 410.- **The colliding-wind binary HD 168112**
Blomme, R.; Rauw, G.; Volpi, D.; Nazé, Y.; Abdul-Masih, M.[2024A&A...687A.106B](#)
- 411.- **The Complete CEERS Early Universe Galaxy Sample: A Surprisingly Slow Evolution of the Space Density of Bright Galaxies at $z \sim 8.5$ –14.5**
Finkelstein, Steven L. *et al.* (incluye a Huertas-Company, Marc)[2024ApJ...969L...2F](#)

- 412.- **The COSMOS-Web ring: In-depth characterization of an Einstein ring lensing system at $z \sim 2$**
Mercier, W. *et al.* (incluye a Huertas-Company, M.)[2024A&A...687A..61M](#)
- 413.- **The dark energy survey: detection of weak lensing magnification of supernovae and constraints on dark matter haloes**
Shah, P. *et al.* (incluye a Carnero Rosell, A.)[2024MNRAS.532..932S](#)
- 414.- **The hierarchical cosmic web and assembly bias**
Coloma-Nadal, J. M.; Kitaura, F. -S.; García-Farieta, J. E.; Sinigaglia, F.; Favole, G.; Forero Sánchez, D.[2024JCAP...07..083C](#)
- 415.- **The IACOB project. X. Large-scale quantitative spectroscopic analysis of Galactic luminous blue stars**
de Burgos, A.; Simón-Díaz, S.; Urbaneja, M. A.; Puls, J.[2024A&A...687A.228D](#)
- 416.- **The IACOB project. XI. No increase in mass-loss rates over the bistability region**
de Burgos, A.; Keszthelyi, Z.; Simón-Díaz, S.; Urbaneja, M. A.[2024A&A...687L..16D](#)
- 417.- **The Lockman-SpReSO project. Main properties of infrared-selected star-forming galaxies**
González-Otero, Mauro *et al.* (incluye a Cepa, Jordi; Padilla-Torres, Carmen P.)[2024A&A...687A..19G](#)
- 418.- **The MAGPI Survey: massive slow rotator population in place by z 0.3**
Derkenne, Caro *et al.* (incluye a Ferré-Mateu, Anna)[2024MNRAS.531.4602D](#)
- 419.- **The miniJPAS Survey: The radial distribution of star formation rates in faint X-ray active galactic nuclei**
Acharya, Nischal *et al.* (incluye a Ramos Almeida, Cristina)[2024A&A...687A.285A](#)
- 420.- **The SRG/eROSITA All-Sky Survey. Dark Energy Survey year 3 weak gravitational lensing by eRASS1 selected galaxy clusters**
Grandis, S. *et al.* (incluye a Carnero Rosell, A.)[2024A&A...687A.178G](#)
- 421.- **Three short-period Earth-sized planets around M dwarfs discovered by TESS: TOI-5720 b, TOI-6008 b, and TOI-6086 b**
Barkaoui, K. *et al.* (incluye a Narita, N.; Murgas, F.; Esparza-Borges, E.; Fukui, A.; Pallé, E.; Parviainen, H.)[2024A&A...687A.264B](#)
- 422.- **TOI-4336 A b: A temperate sub-Neptune ripe for atmospheric characterization in a nearby triple M-dwarf system**
Timmermans, M. *et al.* (incluye a Barkaoui, K.; Murgas, F.)[2024A&A...687A..48T](#)
- 423.- **TOI-837 b is a young Saturn-sized exoplanet with a massive $70 M_{\oplus}$ core**
Barragán, Oscar *et al.* (incluye a Mallorquín, Manuel)[2024MNRAS.531.4275B](#)
- 424.- **Trio of super-Earth candidates orbiting K-dwarf HD 48948: a new habitable zone candidate**
Dalal, S. *et al.* (incluye a Boschín, W.)[2024MNRAS.531.4464D](#)
- 425.- **Two-dimensional Eclipse Mapping of the Hot-Jupiter WASP-43b with JWST MIRI/LRS**
Hammond, Mark *et al.* (incluye a Morello, Giuseppe)[2024AJ....168....4H](#)
- 426.- **Unraveling the kinematics of IZw18: A detailed study of ionized gas with MEGARA/GTC**
Arroyo-Polonio, A.; Kehrig, C.; Iglesias-Páramo, J.; Vílchez, J. M.; Pérez-Montero, E.; Duarte Puertas, S.; Gallego, J.; Reverte, D.; Cabrera-Lavers, A.[2024A&A...687A..77A](#)
- 427.- **Unveiling the (in)consistencies among the galaxy stellar mass function, star formation histories, satellite abundances, and intracluster light from a semi-empirical perspective**
Fu, Hao *et al.* (incluye a Martín-Navarro, Ignacio)[2024MNRAS.532..177F](#)
- 428.- **Using autoencoders and deep transfer learning to determine the stellar parameters of 286 CARMENES M dwarfs**
Mas-Buitrago, P. *et al.* (incluye a Passegger, V. M.)[2024A&A...687A.205M](#)

- 429.- A benchmark JWST near-infrared spectrum for the exoplanet WASP-39 b**
Carter, A. L. *et al.* (include a **Morello, G.**)[2024NatAs...8.1008C](#)
- 430.- A hot-Jupiter progenitor on a super-eccentric retrograde orbit**
Gupta, Arvind F. *et al.* (include a **Carleo, Ilaria; Masseron, Thomas; Guillet, Bruno; Knight, Rachel; Leroux, Liouba; Loose, Margaret; Nowak, Grzegorz; Palle, Enric; Primm, Michael; Shimizu, Masao; Simard, Georges; Will, Stefan**)[2024Natur.632...50G](#)
- 431.- A low-mass sub-Neptune planet transiting the bright active star HD 73344**
Sulis, S. *et al.* (include a **Mathur, S.**)[2024A&A...688A..14S](#)
- 432.- A search for Galactic post-asymptotic giant branch stars in Gaia DR3**
González-Santamaría, I.; Manteiga, M.; **Manchado, A.; Villaver, E.**; Ulla, A.; Dafonte, C.[2024A&A...688A.209G](#)
- 433.- A Survey of Protoplanetary Disks Using the Keck/NIRC2 Vortex Coronagraph**
Wallack, Nicole L. *et al.* (include a **Femenía Castellá, Bruno**)[2024AJ....168...78W](#)
- 434.- Accretion properties of X-ray AGN: evidence for radiation-regulated obscuration with redshift-dependent host galaxy contribution**
Laloux, Brivael *et al.* (include a **Ramos Almeida, Cristina**)[2024MNRAS.532.3459L](#)
- 435.- An ALMA CO(1-0) survey of the 2Jy sample: large and massive molecular discs in radio AGN host galaxies**
Tadhunter, C.; Oosterloo, T.; Morganti, R.; **Ramos Almeida, C.**; Martín, M. Villar; Emonts, B.; Dicken, D.[2024MNRAS.532.4463T](#)
- 436.- Chemical Cartography with APOGEE: Two-process Parameters and Residual Abundances for 288,789 Stars from Data Release 17**
Sit, Tawny; Weinberg, David H.; Wheeler, Adam; Hayes, Christian R.; Hasselquist, Sten; **Masseron, Thomas**; Sobek, Jennifer[2024ApJ...970..180S](#)
- 437.- Climate change in hell: Long-term variation in transits of the evaporating planet K2-22b**
Gaidos, E. *et al.* (include a **Parviainen, H.; Esparza-Borges, E.; Fukui, A.; Murgas, F.; Narita, N.; Palle, E.**)[2024A&A...688L..34G](#)
- 438.- Discovery of an Extremely r-process-enhanced Thin-disk Star with [Eu/H] = +0.78**
Xie, Xiao-Jin *et al.* (include a **Allende Prieto, Carlos**)[2024ApJ...970L..30X](#)
- 439.- Discovery of the local counterpart of disc galaxies at $z > 4$: The oldest thin disc of the Milky Way using Gaia-RVS**
Nepal, S.; Chiappini, C.; **Queiroz, A. B.**; Guiglion, G.; Montalbán, J.; Steinmetz, M.; Miglio, A.; Khalatyan, A.[2024A&A...688A.167N](#)
- 440.- Dust beyond the torus: revealing the mid-infrared heart of local Seyfert ESO 428-G14 with JWST/MIRI**
Haidar, Houda *et al.* (include a **Ramos Almeida, Cristina; Audibert, Anelise**)[2024MNRAS.532.4645H](#)
- 441.- Early Results from the HUMDRUM Survey: A Small, Earth-mass Planet Orbits TOI-1450A**
Brady, Madison *et al.* (include a **Fukui, Akihiko; Narita, Norio**)[2024AJ....168...67B](#)
- 442.- From eruption to post-flare rain: A 2.5D MHD model**
Sen, Samrat; Prasad, Avijeet; Liakh, Valeriia; Keppens, Rony[2024A&A...688A..64S](#)
- 443.- Gaia22dkvLb: A Microlensing Planet Potentially Accessible to Radial-velocity Characterization**
Wu, Zexuan *et al.* (include a **Fukui, Akihiko**)[2024AJ....168...62W](#)
- 444.- Galaxy Ages with Redshift $z = 2-4$: Stellar Population Synthesis for Candidates in FourStar Galaxy Evolution Survey**
Gao, Chong-Yu; **López-Corredoira, Martín**; Wei, Jun-Jie[2024ApJ...970..142G](#)

- 445.- **Green, solventless debromination of C 70 Br 10 to C 70 with CsI**
Barzaga, Ransel; García-Hernández, D. Aníbal; Manchado, Arturo; Cataldo, Franco [2024FNCN...32..740B](#)
- 446.- **HD152843 b & c: the masses and orbital periods of a sub-Neptune and a superpuff Neptune**
Nicholson, B. A. *et al.* (incluye a Boschini, W.; Lorenzi, V.) [2024MNRAS.532.4632N](#)
- 447.- **Hydrodynamic simulations of cool stellar atmospheres with MANCHA**
Perdomo García, A.; Vitas, N.; Khomenko, E.; Collados, M. [2024A&A...688A..27P](#)
- 448.- **Inhomogeneous terminators on the exoplanet WASP-39 b**
Espinoza, Néstor *et al.* (incluye a Palle, Enric) [2024Natur.632.1017E](#)
- 449.- **LeMMINGs. Multiwavelength constraints on the co-existence of nuclear star clusters and AGN in nucleated galaxies**
Dullo, B. T. *et al.* (incluye a Knapen, J. H.) [2024MNRAS.532.4729D](#)
- 450.- **Light-curve Recovery with Rubin-LSST. II. Unveiling the Darkness of the Galactic Bulge (VESTALE) with RR Lyrae**
Di Criscienzo, M. *et al.* (incluye a Monelli, M.) [2024ApJS..273...35D](#)
- 451.- **LIGHTS. Survey Overview and a Search for Low Surface Brightness Satellite Galaxies**
Zaritsky, Dennis *et al.* (incluye a Golini, Giulia; Trujillo, Ignacio; Montes, Mireia; Sharbaf, Zahra) [2024AJ...168...69Z](#)
- 452.- **Magnetic Fields beneath Active Region Coronal Loops**
Judge, Philip G.; Kleint, L.; Kuckein, C. [2024ApJ...970..147J](#)
- 453.- **Magnetic Fields in M-dwarf Members of the Pleiades Open Cluster Using APOGEE Spectra**
Wanderley, Fábio *et al.* (incluye a Allende Prieto, C.) [2024ApJ...971..112W](#)
- 454.- **Mapping the oxygen abundance in Red Geysers and its relation with the gas kinematics using MEGACUBES**
Ilha, Gabriele S.; Krabbe, Angela C.; Riffel, Rogemar A.; Dors, Oli L.; Riffel, Rogério; Rembold, Sandro B.; Storchi-Bergmann, Thaisa; Mallmann, Nicolas D. [2024MNRAS.532.2988I](#)
- 455.- **Model-based identification of solar coronal mass ejections using deep neural networks**
Iglesias, F. A.; Cisterna, F.; Sanchez, M.; Machuca, Y.; Lloveras, D.; Manini, F.; Lopez, F. M.; Cremades, H.; Asensio-Ramos, A. [2024BAAA...65...17I](#)
- 456.- **Neural calibration of imaging Stokes polarimeters**
Iglesias, F. A.; Asensio Ramos, A.; Sanchez, M.; Feller, A. [2024BAAA...65..281I](#)
- 457.- **Numerical simulations of exocomet transits: Insights from β Pic and KIC 3542116**
Luk'yanyk, I.; Kulyk, I.; Shubina, O.; Pavlenko, Ya.; Vasylenko, M.; Dobrycheva, D.; Korsun, P. [2024A&A...688A..65L](#)
- 458.- **Photo-dynamical characterisation of the TOI-178 resonant chain. Exploring the robustness of transit-timing variations and radial velocity mass characterisations**
Leleu, A. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.) [2024A&A...688A.211L](#)
- 459.- **Planetary nebulae of the Large Magellanic Cloud. I. A multiwavelength analysis**
Tosi, S.; Dell'Agli, F.; Kamath, D.; Stanghellini, L.; Ventura, P.; Bianchi, S.; Gómez-Muñoz, M. A.; García-Hernández, D. A. [2024A&A...688A..36T](#)
- 460.- **Proper Motions and Orbits of Distant Local Group Dwarf Galaxies from a Combination of Gaia and Hubble Data**
Bennet, Paul *et al.* (incluye a Aparicio, Antonio; Gallart, Carme; Monelli, Matteo) [2024ApJ...971...98B](#)
- 461.- **Rotational synchronisation of B-type binaries in 30 Doradus**
Lennon, D. J.; Dufton, P. L.; Villaseñor, J. I.; Langer, N.; Evans, C. J.; Sana, H.; Taylor, W. D. [2024A&A...688A.141L](#)

- 462.- SiO maser polarization and magnetic field in evolved cool stars**
Marinho, L.; Herpin, F.; Wiesemeyer, H.; López Ariste, A.; Baudry, A.; **Asensio Ramos, A.**; Lèbre, A.; Mathias, P.; Montargès, M.[2024A&A...688A.143M](#)
- 463.- Solar multiobject multiframe blind deconvolution with a spatially variant convolution neural emulator**
Asensio Ramos, A.[2024A&A...688A..88A](#)
- 464.- The CARMENES search for exoplanets around M dwarfs. Revisiting the GJ 581 multi-planetary system with new Doppler measurements from CARMENES, HARPS, and HIRES**
von Stauffenberg, A. *et al.* (incluye a **Béjar, V. J. S.**)[2024A&A...688A.112V](#)
- 465.- The Early Data Release of the Dark Energy Spectroscopic Instrument**
DESI Collaboration *et al.* (incluye a **Allende Prieto, C.**; **Balaguera-Antolínez, A.**; **Carnero Rosell, A.**; **Kitaura, F.**; **Sinigaglia, F.**)[2024AJ....168...58D](#)
- 466.- The Negative Baryon Acoustic Oscillation Shift in the Ly α Forest from Cosmological Simulations**
Sinigaglia, Francesco; **Kitaura, Francisco-Shu**; **Nagamine, Kentaro**; **Oku, Yuri**[2024ApJ...971L..22S](#)
- 467.- The updated BOSZ synthetic stellar spectral library**
Mészáros, Szabolcs *et al.* (incluye a **Prieto, Carlos Allende**)[2024A&A...688A.197M](#)
- 468.- Three super-Earths and a possible water world from TESS and ESPRESSO**
Hobson, M. J. *et al.* (incluye a **Allende Prieto, C.**; **Génova Santos, R.**; **González Hernández, J. I.**; **Palle, E.**; **Rebolo, R.**; **Suárez Mascareño, A.**)[2024A&A...688A.216H](#)
- 469.- TOI-1408: Discovery and Photodynamical Modeling of a Small Inner Companion to a Hot Jupiter Revealed by Transit Timing Variations**
Korth, Judith *et al.* (incluye a **Parviainen, Hannu**; **Carleo, Ilaria**; **Nowak, Grzegorz**; **Murgas, Felipe**; **Fukui, Akihiko**; **Pallé, Enric**; **Beck, Paul G.**; **Mathur, Savita**; **Deeg, Hans J.**; **Morello, Giuseppe**; **Narita, Norio**; **Orell-Miquel, Jaume**)[2024ApJ...971L..28K](#)
- 470.- TOPl-2447 b / NGTS-29 b: a 69-day Saturn around a Solar analogue**
Gill, Samuel *et al.* (incluye a **Carleo, Ilaria**)[2024MNRAS.532.1444G](#)
- 471.- Tracking Advanced Planetary Systems (TAPAS) with HARPS-N. VIII. A wide-orbit planetary companion in the hot-Jupiter system HD 118203**
Maciejewski, G.; Niedzielski, A.; Goździewski, K.; Wolszczan, A.; **Villaver, E.**; **Fernández, M.**; **Adamów, M.**; **Sierzputowska, J.**[2024A&A...688A.172M](#)
- 472.- Unveiling the internal structure and formation history of the three planets transiting HIP 29442 (TOI-469) with CHEOPS**
Egger, J. A. *et al.* (incluye a **Alonso, R.**; **Pallé, E.**; **Villaver, E.**)[2024A&A...688A.223E](#)
- 473.- Unveiling the purely young star formation history of the SMC's northeastern shell from colour-magnitude diagram fitting**
Sakowska, Joanna D. *et al.* (incluye a **Gallart, Carme**; **Monelli, Matteo**)[2024MNRAS.532.4272S](#)
- 474.- X-Shooting ULLYSES: Massive stars at low metallicity. II. DR1: Advanced optical data products for the Magellanic Clouds**
Sana, H. *et al.* (incluye a **Abdul-Masih, M.**)[2024A&A...688A.104S](#)
- 475.- X-Shooting ULLYSES: Massive stars at low metallicity. III. Terminal wind speeds of ULLYSES massive stars**
Hawcroft, C. *et al.* (incluye a **Herrero, A.**)[2024A&A...688A.105H](#)
- 476.- A study of interacting galaxies from the Arp-Madore catalog: Triggering of star formation and nuclear activity**
Cezar, Pedro H.; **Pastoriza, Miriani G.**; **Riffel, Rogério**; **Ramos Almeida, Cristina**; **Krabbe, Angela C.**; **Rembold, Sandro B.**[2024A&A...689A.312C](#)

- 477.- An ALMA survey of submillimetre galaxies in the Extended Chandra Deep Field South: an unbiased study of SMG environments measured with narrow-band imaging**
Cornish, Thomas M. *et al.* (incluye a Dannerbauer, Helmut)[2024MNRAS.533.2399C](#)
- 478.- An Earth-sized Planet on the Verge of Tidal Disruption**
Dai, Fei *et al.* (incluye a Orell-Miquel, Jaume; Pallé, Enric; Murgas, Felipe; Barkaoui, Khalid; Narita, Norio; Fukui, Akihiko)[2024AJ....168..101D](#)
- 479.- Are early-type galaxies quenched by present-day environment?: A study of dwarfs in the Fornax Cluster**
Romero-Gómez, J.; Peletier, Reynier F.; Aguerri, J. A. L.; Smith, R.[2024A&A...689A..40R](#)
- 480.- Carbon enrichment in APOGEE disk stars as evidence of mass transfer in binaries**
Foster, Steve *et al.* (incluye a García-Hernández, Domingo Aníbal)[2024A&A...689A.230F](#)
- 481.- CAVITY, Calar Alto Void Integral-field Treasury survey and project extension**
Pérez, I. *et al.* (incluye a Román, J.; Sánchez Alarcón, P.; Walo-Martín, D.; Falcón-Barroso, J.; Ferré-Mateu, A.)[2024A&A...689A.213P](#)
- 482.- Characterisation of the warm-Jupiter TOI-1130 system with CHEOPS and a photo-dynamical approach**
Borsato, L. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.)[2024A&A...689A..52B](#)
- 483.- Comparing land- and skylscapes in the three main manorial-conquered lands of the Canary Islands**
MURATORE, M.F.; Gangui, A.; Belmonte, J.A.; Cabrera, C.[10.24215/26840162e016](#)
- 484.- Comparison of optical spectra between asteroids Ryugu and Bennu: II. High-precision analysis for space weathering trends**
Yumoto, K. *et al.* (incluye a de León, J.; Licandro, J.)[2024Icar..42016204Y](#)
- 485.- CONCERTO at APEX On-sky performance in continuum**
Hu, W. *et al.* (incluye a Fasano, A.)[2024A&A...689A..20H](#)
- 486.- Dark energy survey year 3 results: miscentring calibration and X-ray-richness scaling relations in redMaPPer clusters**
Kelly, P. M. *et al.* (incluye a Carnero Rosell, A.)[2024MNRAS.533..572K](#)
- 487.- Dark Energy Survey: A 2.1% measurement of the angular Baryonic Acoustic Oscillation scale at redshift $z_{\text{eff}}=0.85$ from the final dataset**
Abbott, T. M. C. *et al.* (incluye a Carnero Rosell, A.)[2024PhRvD.110f3515A](#)
- 488.- Dark Energy Survey: Galaxy sample for the baryonic acoustic oscillation measurement from the final dataset**
Mena-Fernández, J. *et al.* (incluye a Carnero Rosell, A.)[2024PhRvD.110f3514M](#)
- 489.- Deciphering the imprint of active galactic nucleus feedback in Seyfert galaxies: Nuclear-scale molecular gas deficits**
García-Burillo, S. *et al.* (incluye a Ramos Almeida, C.; Audibert, A.)[2024A&A...689A.347G](#)
- 490.- Deriving the star formation histories of galaxies from spectra with simulation-based inference**
Iglesias-Navarro, Patricia; Huertas-Company, Marc; Martín-Navarro, Ignacio; Knapen, Johan H.; Pernet, Emilie[2024A&A...689A..58I](#)
- 491.- DESI Early Data Release Milky Way Survey value-added catalogue**
Koposov, Sergey E. *et al.* (incluye a Allende Prieto, C.)[2024MNRAS.533.1012K](#)
- 492.- Detection of the [C I] $\lambda 8727$ emission line. Low-ionization structures in NGC 7009**
Akras, S.; Monteiro, H.; Walsh, J. R.; Konstantinou, L.; Gonçalves, D. R.; Garcia-Rojas, J.; Boumis, P.; Aleman, I.[2024A&A...689A..14A](#)

- 493.- Differential image motion in astrometric observations with very large seeing-limited telescopes**
Lazorenko, P. F.; Sahlmann, J.; Mayor, M.; **Martin, E. L.** [2024A&A...689A..94L](#)
- 494.- Dissecting a miniature universe: A multi-wavelength view of galaxy quenching in the Shapley supercluster**
Aghanim, N.; Tuominen, T.; **Bonjean, V.**; Gouin, C.; Bonnaire, T.; Einasto, M. [2024A&A...689A.332A](#)
- 495.- ESPRESSO reveals blueshifted neutral iron emission lines on the dayside of WASP-76 b**
Costa Silva, A. R. *et al.* (incluye a **Rebolo, R.**; **Allende Prieto, C.**; **Esparza-Borges, E.**; **González Hernández, J. I.**; **Palle, E.**; **Suárez Mascareño, A.**) [2024A&A...689A...8C](#)
- 496.- Euclid preparation: XLII. A unified catalogue-level reanalysis of weak lensing by galaxy clusters in five imaging surveys**
Euclid Collaboration *et al.* (incluye a **Rebolo, R.**; **Colodro-Conde, C.**) [2024A&A...689A.252E](#)
- 497.- Euclid preparation: XLIII. Measuring detailed galaxy morphologies for Euclid with machine learning**
Euclid Collaboration *et al.* (incluye a **Huertas-Company, M.**; **Knapen, J. H.**; **Rebolo, R.**; **Colodro-Conde, C.**) [2024A&A...689A.274E](#)
- 498.- Euclid preparation: XLIV. Modelling spectroscopic clustering on mildly nonlinear scales in beyond- Λ CDM models**
Euclid Collaboration *et al.* (incluye a **Colodro-Conde, C.**) [2024A&A...689A.275E](#)
- 499.- Euclid preparation: XLV. Optical emission-line predictions of intermediate- z galaxy populations in GAEA for the Euclid Deep and Wide Surveys**
Euclid Collaboration *et al.* (incluye a **Colodro-Conde, C.**) [2024A&A...689A.276E](#)
- 500.- Euclid preparation: XLVI. The near-infrared background dipole experiment with Euclid**
Euclid Collaboration *et al.* (incluye a **Colodro-Conde, C.**) [2024A&A...689A.294E](#)
- 501.- Euclid: Testing photometric selection of emission-line galaxy targets**
Cagliari, M. S. *et al.* (incluye a **Rebolo, R.**) [2024A&A...689A.166C](#)
- 502.- Evidence for a Shallow Evolution in the Volume Densities of Massive Galaxies at $z = 4-8$ from CEERS**
Chworowsky, Katherine *et al.* (incluye a **Huertas-Company, Marc**) [2024AJ....168..113C](#)
- 503.- Exploring the nature of dark matter with the extreme galaxy AGC 114905**
Mancera Piña, Pavel E.; **Golini, Giulia**; **Trujillo, Ignacio**; **Montes, Mireia** [2024A&A...689A.344M](#)
- 504.- First Direct Evidence for Keplerian Rotation in Quasar Inner Broad-line Regions**
Fian, C.; Jiménez-Vicente, J.; **Mediavilla, E.**; Muñoz, J. A.; Chelouche, D.; Kaspi, S.; Forés-Toribio, R. [2024ApJ...972L...7F](#)
- 505.- From gas to stars: MUSEings on the internal evolution of IC 1613**
Taibi, S. *et al.* (incluye a **Battaglia, G.**; **Gallart, C.**; **Beasley, M. A.**) [2024A&A...689A..88T](#)
- 506.- Gas-phase metallicity for the Seyfert galaxy NGC 7130**
Amiri, A.; **Knapen, J. H.**; **Comerón, S.**; **Marconi, A.**; **Lehmer, B. D.** [2024A&A...689A.193A](#)
- 507.- GATOS: missing molecular gas in the outflow of NGC 5728 revealed by JWST**
Davies, R. *et al.* (incluye a **Audibert, A.**; **Esparza Arredondo, D.**; **García-Lorenzo, B.**; **Ramos Almeida, C.**) [2024A&A...689A.263D](#)
- 508.- K2-399 b is not a planet: The Saturn that wandered through the Neptune desert is actually a hierarchical eclipsing binary**
Lillo-Box, J. *et al.* (incluye a **Narita, N.**; **Fukui, A.**) [2024A&A...689L...8L](#)
- 509.- Kilonova Seekers: the GOTO project for real-time citizen science in time-domain astrophysics**
Killestein, T. L. *et al.* (incluye a **Dhillon, V. S.**; **Pallé, E.**; **Eyles-Ferris, R.**; **Mata Sánchez, D.**; **Patel, M.**; **Rana, J.**) [2024MNRAS.533.2113K](#)

- 510.- **Magnetic field diagnostics of prominences with the Mg II k line 3D Stokes inversions versus traditional methods**
Štěpán, Jiří; del Pino Alemán, Tanausú; Trujillo Bueno, Javier [2024A&A...689A.341S](#)
- 511.- **Measuring stellar surface rotation and activity with the PLATO mission: I. Strategy and application to simulated light curves**
Breton, S. N. *et al.* (incluye a Mathur, S.) [2024A&A...689A.229B](#)
- 512.- **MUSE spectroscopy of the high abundance discrepancy planetary nebula NGC 6153**
Gómez-Llanos, V.; García-Rojas, J.; Morisset, C.; Monteiro, H.; Jones, D.; Wesson, R.; Boffin, H. M. J.; Corradi, R. L. M. [2024A&A...689A.228G](#)
- 513.- **OGLE-2015-BLG-0845L: a low-mass M dwarf from the microlensing parallax and xallarap effects**
Hu, Zhecheng *et al.* (incluye a Fukui, Akihiko) [2024MNRAS.533.1991H](#)
- 514.- **On the use of field RR Lyrae as Galactic probes: VII. Light curve templates in the LSST photometric system**
Braga, V. F.; Monelli, M.; Dall'Ora, M.; Mullen, J. P.; Molinaro, R.; Marconi, M.; Szabó, R.; Gallart, C. [2024A&A...689A.349B](#)
- 515.- **Primeval very low-mass stars and brown dwarfs - VIII. The first age benchmark L subdwarf, a wide companion to a halo white dwarf**
Zhang, Z. H. *et al.* (incluye a Lodieu, N.; Pavlenko, Ya V.) [2024MNRAS.533.1654Z](#)
- 516.- **Properties of sunspot light bridges on a geometric height scale**
Esteban Pozuelo, S.; Asensio Ramos, A.; Díaz Baso, C. J.; Ruiz Cobo, B. [2024A&A...689A.255E](#)
- 517.- **PSZ2 G282.28+49.94, a recently discovered analogue of the famous Bullet Cluster**
Bartalucci, I. *et al.* (incluye a Boschini, W.) [2024A&A...689A.324B](#)
- 518.- **QSOFEED: Relationship between star formation and active galactic nuclei feedback**
Bessiere, P. S.; Ramos Almeida, C.; Holden, L. R.; Tadhunter, C. N.; Canalizo, G. [2024A&A...689A.271B](#)
- 519.- **Results of the follow-up of ANTARES neutrino alerts**
Albert, A. *et al.* (incluye a Rebolo Lopez, R.; Sierra-Ricart, M.) [2024JCAP...09..042A](#)
- 520.- **Revealing the inner workings of the lensed quasar SDSS J1339+1310: Insights from microlensing analysis**
Fian, C.; Muñoz, J. A.; Jiménez-Vicente, J.; Mediavilla, E.; Chelouche, D.; Kaspi, S.; Forés-Toribio, R. [2024A&A...689A.129F](#)
- 521.- **Revisiting the dynamical masses of the transiting planets in the young AU Mic system: Potential AU Mic b inflation at 20 Myr**
Mallorquín, M. *et al.* (incluye a Béjar, V. J. S.; Lodieu, N.; Suárez Mascareño, A.; Pallé, E.) [2024A&A...689A.132M](#)
- 522.- **RMS asymmetry: a robust metric of galaxy shapes in images with varied depth and resolution**
Sazonova, Elizaveta *et al.* (incluye a Román, Javier) [2024OJAp....7E..77S](#)
- 523.- **TESS Investigation—Demographics of Young Exoplanets (TI-DYE). II. A Second Giant Planet in the 17 Myr System HIP 67522**
Barber, Madyson G. *et al.* (incluye a Fukui, Akihiko; Narita, Norio) [2024ApJ...973L..30B](#)
- 524.- **The atmospheric composition of the ultra-hot Jupiter WASP-178 b observed with ESPRESSO**
Damasceno, Y. C. *et al.* (incluye a Esparza-Borges, E.; González Hernández, J. I.; Pallé, E.) [2024A&A...689A..54D](#)
- 525.- **The CARMENES search for exoplanets around M dwarfs: Magnesium and silicon abundances of K7–M5.5 stars**
Taberner, H. M. *et al.* (incluye a González Hernández, J. I.) [2024A&A...689A.223T](#)

- 526.- The Complex Star Formation History of the Halo of NGC 5128 (Cen A)**
Aghdam, Sima T.; Javadi, Atefeh; Hashemi, Seyedazim; Abdollahi, Mahdi; van Loon, Jacco Th.; Khosroshahi, Habib; Golshan, Roya H.; **Saremi, Elham**; Saberi, Maryam [2024ApJ...972...47A](#)
- 527.- The Dark Energy Survey 5-yr photometrically classified type Ia supernovae without host-galaxy redshifts**
Möller, A. *et al.* (include a **Carnero Rosell, A.**) [2024MNRAS.533.2073M](#)
- 528.- The dark energy survey supernova program: investigating beyond- Λ CDM**
Camilleri, R. *et al.* (include a **Carnero Rosell, A.**) [2024MNRAS.533.2615C](#)
- 529.- The Dark Energy Survey Supernova Program: slow supernovae show cosmological time dilation out to $z = 1$.**
White, R. M. T. *et al.* (include a **Carnero Rosell, A.**) [2024MNRAS.533.3365W](#)
- 530.- The Dark Energy Survey: Cosmology Results with ~ 1500 New High-redshift Type Ia Supernovae Using the Full 5 yr Data Set**
DES Collaboration *et al.* (include a **Campos, A.**) [2024ApJ...973L..14D](#)
- 531.- The Dark Energy Survey: Cosmology Results with ~ 1500 New High-redshift Type Ia Supernovae Using the Full 5 yr Data Set**
Abbott, T. M. C. *et al.* (include a **Carnero Rosell, A.**) [2024ApJ...973L..14A](#)
- 532.- The Fourth S-PLUS Data Release: 12-filter photometry covering 3000 square degrees in the southern hemisphere**
Herpich, F. R. *et al.* (include a **Hartmann, E. A.**) [2024A&A...689A.249H](#)
- 533.- The frequency of transiting planetary systems around polluted white dwarfs**
Robert, Akshay; Farihi, Jay; Van Eylen, Vincent; Aungwerojwit, Amornrat; Gänsicke, Boris T.; Redfield, Seth; **Dhillon, Vikram S.**; Marsh, Thomas R.; Swan, Andrew [2024MNRAS.533.1756R](#)
- 534.- The MOPYS project: A survey of 70 planets in search of extended He I and H atmospheres: No evidence of enhanced evaporation in young planets**
Orell-Miquel, J. *et al.* (include a **Murgas, F.**; **Pallé, E.**; **Mallorquín, M.**; **Carleo, I.**; **Esparza-Borges, E.**; **Fukui, A.**; **Morello, G.**; **Narita, N.**) [2024A&A...689A.179O](#)
- 535.- The PARSEC view of star formation in galaxy centres: from protoclusters to star clusters in an early-type spiral**
Prieto, Almudena; Gladis Magris, C.; Bruzual, Gustavo; Fernández-Ontiveros, Juan A.; Burkert, Andreas [2024MNRAS.533..433P](#)
- 536.- The PAU Survey: Galaxy stellar population properties estimates with narrowband data**
Csizi, B. *et al.* (include a **Siudek, M.**) [2024A&A...689A..37C](#)
- 537.- The Pristine Inner Galaxy Survey (PIGS): IX. The largest detailed chemical analysis of very metal-poor stars in the Sagittarius dwarf galaxy**
Sestito, Federico *et al.* (include a **Aguado, David S.**) [2024A&A...689A.201S](#)
- 538.- The Radio Galaxy Environment Reference Survey (RAGERS): a submillimetre study of the environments of massive radio-quiet galaxies at $z = 1-3$**
Cornish, Thomas M. *et al.* (include a **Dannerbauer, Helmut**) [2024MNRAS.533.1032C](#)
- 539.- The Stellar Distribution in Ultrafaint Dwarf Galaxies Suggests Deviations from the Collisionless Cold Dark Matter Paradigm**
Sánchez Almeida, Jorge; **Trujillo, Ignacio**; **Plastino, Angel R.** [2024ApJ...973L..15S](#)
- 540.- The VISTA Variables in the Vía Láctea extended (VVVX) ESO public survey: Completion of the observations and legacy**
Saito, R. K. *et al.* (include a **Martin, E. L.**) [2024A&A...689A.148S](#)
- 541.- TOI-757 b: an eccentric transiting mini-Neptune on a 17.5-d orbit**
Alqasim, A. *et al.* (include a **Alonso, R.**; **Nowak, G.**; **Palle, E.**; **Villaver, E.**) [2024MNRAS.533....1A](#)

- 542.- X-Shooting ULLYSES: Massive stars at low metallicity: IV. Spectral analysis methods and exemplary results for O stars**
Sander, A. A. C. *et al.* (incluye a Berlanas, S. R.; Herrero, A.)[2024A&A...689A..30S](#)
- 543.- X-Shooting ULLYSES: Massive stars at low metallicity: V. Effect of metallicity on surface abundances of O stars**
Martins, F. *et al.* (incluye a Herrero, A.)[2024A&A...689A..31M](#)
- 544.- A biconical ionised gas outflow and evidence of positive feedback in NGC 7172 uncovered by MIRI/JWST**
Hermosa Muñoz, L. *et al.* (incluye a García-Lorenzo, B.; Esparza-Arredondo, D.; Ramos Almeida, C.; Audibert, A.)[2024A&A...690A.350H](#)
- 545.- A detailed study of the very high-energy Crab pulsar emission with the LST-1**
Abe, K. *et al.* (incluye a Becerra González, J.; García López, R.; Herrera Llorente, J.; López-Oramas, A.; Molero Gonzalez, M.; Molina, E.; Nieves Rosillo, M.; Vázquez Acosta, M.)[2024A&A...690A.167A](#)
- 546.- A new perspective on the stellar mass-metallicity relation of quiescent galaxies from the LEGA-C survey**
Bevacqua, Davide; Saracco, Paolo; Boecker, Alina; D'Ago, Giuseppe; De Lucia, Gabriella; De Propriis, Roberto; La Barbera, Francesco; Pasquali, Anna; Spiniello, Chiara; Tortora, Crescenzo[2024A&A...690A.150B](#)
- 547.- A Novel Method to Constrain Tidal Quality Factor from A Nonsynchronized Exoplanetary System**
Tokuno, Takato; Fukui, Akihiko; Suzuki, Takeru K.[2024ApJ...973..128T](#)
- 548.- A spectroscopic and kinematic survey of fast hot subdwarfs**
Geier, S. *et al.* (incluye a Geier, S. J.)[2024A&A...690A.368G](#)
- 549.- A sub-Earth-mass planet orbiting Barnard's star**
González Hernández, J. I. *et al.* (incluye a Suárez Mascareño, A.; Stefanov, A. K.; Rebolo, R.; Nari, N.; Passegger, V. M.; Allende Prieto, C.; Génova Santos, R.; Palles, E.)[2024A&A...690A..79G](#)
- 550.- A targeted search for strongly lensed supernovae with the Las Cumbres Observatory**
Craig, Peter; O'Connor, Kyle; Chakrabarti, Sukanya; Rodney, Steven A.; Pierel, Justin R.; McCully, Curtis; Perez-Fournon, Ismael[2024MNRAS.534.1077C](#)
- 551.- AGN feedback can produce metal enrichment on galaxy scales**
Villar Martín, M.; López Cobá, C.; Cazzoli, S.; Pérez Montero, E.; Cabrera Lavers, A.[2024A&A...690A.397V](#)
- 552.- Application of the Eddington inversion method to constrain the dark matter halo of galaxies using only observed surface brightness profiles**
Sánchez Almeida, Jorge; Plastino, Angel R.; Trujillo, Ignacio[2024A&A...690A.151S](#)
- 553.- Assessing your Observatory's Impact: Best Practices in Establishing and Maintaining Observatory Bibliographies**
D'Abrusco, Raffaele *et al.* (incluye a Gomez, Monique)[2024OJAp....7E..85D](#)
- 554.- Binarity at LOW Metallicity (BLOeM): A spectroscopic VLT monitoring survey of massive stars in the SMC**
Shenar, T. *et al.* (incluye a Lennon, D. J.; Abdul-Masih, M.; Berlanas, S. R.; Herrero, A.; Holgado, G.; Menon, A.; Simón-Díaz, S.)[2024A&A...690A.289S](#)
- 555.- Boron depletion in Galactic early B-type stars reveals two different main sequence star populations**
Jin, Harim; Langer, Norbert; Lennon, Daniel J.; Proffitt, Charles R.[2024A&A...690A.135J](#)

- 556.- Constraints on the in situ and ex situ stellar masses in nearby galaxies obtained with artificial intelligence**
Angeloudi, Eirini; Falcón-Barroso, Jesús; Huertas-Company, Marc; Boecker, Alina; Sarmiento, Regina; Eisert, Lukas; Pillepich, Annalisa [2024NatAs...8.1310A](#)
- 557.- Digging deeper into NGC 6868 II: ionized gas and excitation mechanism**
Benedetti, João P. V. *et al.* (incluye a Ferré-Mateu, Anna; Vazdekis, Alexandre) [2024MNRAS.534..400B](#)
- 558.- Echo-free quality factor of a multilayer axion haloscope**
Hernández-Cabrera, Juan F.; de Miguel, Javier; Hernández-Suárez, E.; Joven, Enrique; Otani, Chiko; Rubiño-Martín, J. Alberto; Zioutas, Konstantin; DALI Collaboration [2024PhRvD.110g2013H](#)
- 559.- Empirical mass-loss rates and clumping properties of O-type stars in the Large Magellanic Cloud**
Hawcroft, C.; Mahy, L.; Sana, H.; Sundqvist, J. O.; Abdul-Masih, M.; Brands, S. A.; Decin, L.; de Koter, A.; Puls, J. [2024A&A...690A.126H](#)
- 560.- Euclid preparation. XLVII. Improving cosmological constraints using a new multi-tracer method with the spectroscopic and photometric samples**
Euclid Collaboration *et al.* (incluye a Rebolo, R.; Colodro-Conde, C.; Balaguera-Antolinez, A.) [2024A&A...690A..30E](#)
- 561.- Euclid preparation. XLVIII. The pre-launch Science Ground Segment simulation framework**
Euclid Collaboration *et al.* (incluye a Colodro-Conde, C.; Rebolo, R.; Huertas-Company, M.) [2024A&A...690A.103E](#)
- 562.- Euclid: Constraining linearly scale-independent modifications of gravity with the spectroscopic and photometric primary probes**
Frusciante, N. *et al.* (incluye a Rebolo, R.) [2024A&A...690A.133F](#)
- 563.- Extragalactic globular cluster near-infrared spectroscopy: I. Integrated near-infrared spectra of Centaurus A/NGC 5128**
Dahmer-Hahn, L. G.; Chies-Santos, A. L.; Eftekhari, E.; Zanatta, E.; Riffel, R.; Vazdekis, A.; Villaume, A.; Beasley, M. A.; Lassen, A. E. [2024A&A...690A..93D](#)
- 564.- Fast simulation mapping: From standard to modified gravity cosmologies using the bias assignment method**
García-Farieta, Jorge Enrique; Balaguera-Antolínez, Andrés; Kitaura, Francisco-Shu [2024A&A...690A..27G](#)
- 565.- Fast X-ray/IR observations of the black hole transient Swift J1753.5–0127: From an IR lead to a very long jet lag**
Ulgiate, A. *et al.* (incluye a Vincentelli, F. M.; Shahbaz, T.) [2024A&A...690A.239U](#)
- 566.- Five new eclipsing binaries with low-mass companions**
Lipták, J. *et al.* (incluye a Beck, P. G.; Deeg, H. J.; Jones, D.; Mathur, S.) [2024A&A...690A.168L](#)
- 567.- Gas flows in the central region of the Seyfert galaxy NGC 4593 with MUSE**
Mulumba, D.; Knapen, J. H.; Comerón, S.; Ramos Almeida, C.; Obonyo, W. O.; Pereira-Santaella, M.; Baki, P. [2024A&A...690A.277M](#)
- 568.- Gas-phase Fe/O and Fe/N abundances in star-forming regions: Relations between nucleosynthesis, metallicity, and dust**
Méndez-Delgado, J. E. *et al.* (incluye a Esteban, C.; García-Rojas, J.; Reyes-Rodríguez, E.; Sánchez, S. F.) [2024A&A...690A.248M](#)
- 569.- High-quality Extragalactic Legacy-field Monitoring (HELM) with DECam: Project Overview and First Data Release**
Zhuang, Ming-Yang *et al.* (incluye a Casares, Jorge) [2024ApJS..274...42Z](#)

- 570.- HR 10 as seen by CHEOPS and TESS: Revealing δ Scuti pulsations, granulation-like signal and hint for transients**
Salmon, S. J. A. J. *et al.* (incluye a Alonso, R.; Pallé, E.)[2024A&A...690A..73S](#)
- 571.- INSPIRE: INvestigating Stellar Population In RElics - VII. The local environment of ultra-compact massive galaxies**
Scognamiglio, Diana *et al.* (incluye a Ferré-Mateu, Anna; Martín-Navarro, Ignacio)[2024MNRAS.534.1597S](#)
- 572.- Isotopic abundance of carbon in the DLA towards QSO B1331+170**
Milaković, Dinko *et al.* (incluye a Génova Santos, Ricardo; González Hernández, J. I.; Palle, Enric; Rebolo, Rafael; Suárez Mascareño, Alejandro)[2024MNRAS.534...12M](#)
- 573.- J-PLUS: Beyond Spectroscopy. III. Stellar Parameters and Elemental-abundance Ratios for Five Million Stars from DR3**
Huang, Yang *et al.* (incluye a Hernández-Monteagudo, Carlos)[2024ApJ...974..192H](#)
- 574.- Light-curve analysis and shape models of NEAs 7335, 7822, 154244, and 159402**
Rodríguez Rodríguez, Javier *et al.* (incluye a Licandro, Javier; Alarcon, Miguel R.; Serra-Ricart, Miquel)[2024MNRAS.533.4160R](#)
- 575.- LoVoCCS. II. Weak Lensing Mass Distributions, Red-sequence Galaxy Distributions, and Their Alignment with the Brightest Cluster Galaxy in 58 Nearby X-Ray-luminous Galaxy Clusters**
Fu, Shenming *et al.* (incluye a Montes, Mireia)[2024ApJ...974...69F](#)
- 576.- Low abundances of TiO and VO on the dayside of KELT-9 b: Insights from ground-based photometric observations**
Hayashi, Yuya *et al.* (incluye a Narita, Norio; Fukui, Akihiko; Palle, Enric; Murgas, Felipe; Parviainen, Hannu; Esparza-Borges, Emma; Peláez-Torres, Alberto; Meni Gallardo, Pedro Pablo; Fernández-Rodríguez, Gareb; Abreu García, Néstor; Muñoz Torres, Sara; Calatayud Borrás, Yéssica; Montañés Rodríguez, Pilar)[2024PASJ...76.1131H](#)
- 577.- Magnetic diffusion in solar atmosphere produces measurable electric fields**
Anan, Tetsu *et al.* (incluye a Socas-Navarro, Hector)[2024NatCo..15.8811A](#)
- 578.- Mapping the Longitudinal Magnetic Field in the Atmosphere of an Active Region Plage from the Inversion of the Near-ultraviolet CLASP2.1 Spectropolarimetric Data**
Li, Hao *et al.* (incluye a del Pino Alemán, Tanausú; Trujillo Bueno, Javier; Alsina Ballester, Ernest)[2024ApJ...974..154L](#)
- 579.- Mass determination of two Jupiter-sized planets orbiting slightly evolved stars: TOI-2420 b and TOI-2485 b**
Carleo, Ilaria *et al.* (incluye a Masseron, Thomas; Murgas, Felipe; Nowak, Grzegorz; Narita, Norio)[2024A&A...690A..18C](#)
- 580.- Near-infrared Spectral Homogeneity of the Didymos System Before and After the DART Impact**
Ieva, Simone *et al.* (incluye a de León, J.)[2024PSJ.....5..225I](#)
- 581.- Neutron decay anomaly, neutron stars, and dark matter**
Bastero-Gil, Mar; Huertas-Roldán, Teresa; Santos, Daniel[2024PhRvD.110h3003B](#)
- 582.- NOEMA forming Cluster survEy (NICE): Characterizing eight massive galaxy groups at $1.5 < z < 4$ in the COSMOS field**
Sillassen, Nikolaj B. *et al.* (incluye a D'Eugenio, Chiara)[2024A&A...690A..55S](#)
- 583.- Obliquities of exoplanet host stars: Nineteen new and updated measurements, and trends in the sample of 205 measurements**
Knudstrup, E. *et al.* (incluye a Murgas, F.; Narita, N.; Palle, E.)[2024A&A...690A.379K](#)

- 584.- Perspectives on the physics of late-type stars from beyond low earth orbit, the moon and mars**
Mathur, Savita; Santos, Ângela R. G.[2024npjMG..10...96M](#)
- 585.- Planetary nebulae seen with TESS: New and revisited short-period binary central star candidates from Cycles 1 to 4**
Aller, Alba; Lillo-Box, Jorge; Jones, David[2024A&A...690A.190A](#)
- 586.- Prospects for a survey of the galactic plane with the Cherenkov Telescope Array**
Abe, S. *et al.* (incluye a Becerra González, J.; López-Oramas, A.; Molero, M.; Molina, E.; Nieves Rosillo, M.; Vazquez Acosta, M. L.)[2024JCAP...10..081A](#)
- 587.- Prospects for γ -ray observations of the Perseus galaxy cluster with the Cherenkov Telescope Array**
Abe, K. *et al.* (incluye a Becerra González, J.; López-Oramas, A.; Molero, M.; Molina, E.; Nieves Rosillo, M.; Vázquez Acosta, M.)[2024JCAP...10..004A](#)
- 588.- Quasi-periodic X-ray eruptions years after a nearby tidal disruption event**
Nicholl, M. *et al.* (incluye a Dhillon, V. S.)[2024Natur.634..804N](#)
- 589.- Retrieval of the physical parameters of galaxies from WEAVE-StePS-like data using machine learning**
Angthopo, J. *et al.* (incluye a Vazdekis, A.; Balcells, M.; Ferré-Mateu, A.; Knapen, J. H.)[2024A&A...690A.198A](#)
- 590.- Schwarzschild modelling of barred s0 galaxy NGC 4371**
Tahmasebzadeh, Behzad *et al.* (incluye a de Lorenzo-Cáceres, Adriana; Méndez-Abreu, Jairo)[2024MNRAS.534..861T](#)
- 591.- Short-term variability of the transitional pulsar candidate CXOU J110926.4-650224 from X-rays to infrared**
Coti Zelati, F. *et al.* (incluye a Dhillon, V. S.; Vincentelli, F.)[2024A&A...690A.220C](#)
- 592.- SpectroTranslator: Deep-neural network algorithm for homogenising spectroscopic parameters**
Thomas, G. F. *et al.* (incluye a Battaglia, G.; Fernández-Alvar, E.; Gallart, C.; Masseron, T.)[2024A&A...690A..54T](#)
- 593.- SPT clusters with DES and HST weak lensing. I. Cluster lensing and Bayesian population modeling of multiwavelength cluster datasets**
Bocquet, S. *et al.* (incluye a Carnero Rosell, A.)[2024PhRvD.110h3509B](#)
- 594.- SPT clusters with DES and HST weak lensing. II. Cosmological constraints from the abundance of massive halos**
Bocquet, S. *et al.* (incluye a Carnero Rosell, A.)[2024PhRvD.110h3510B](#)
- 595.- TESS discovery of two super-Earths orbiting the M-dwarf stars TOI-6002 and TOI-5713 near the radius valley**
Ghachoui, M. *et al.* (incluye a Murgas, F.; Palle, E.; Barkaoui, K.; Narita, N.; Fukui, A.; Esparza-Borges, E.; Parviainen, H.)[2024A&A...690A.263G](#)
- 596.- The abundance of clustered primordial black holes from quasar microlensing**
Heydenreich, Sven; Mediavilla, Evencio; Jiménez-Vicente, Jorge; Vives-Arias, Héctor; Muñoz, Jose A.[2024A&A...690A.307H](#)
- 597.- The CAVITY Project: Spatially-Resolved and Characteristic Properties of Galaxies Derived Using pyPipe3D**
Sánchez, S. F. *et al.* (incluye a Ferré-Mateu, A.; Sánchez Alarcón, P. M.; Román, J.)[2024RMxAA..60..323S](#)
- 598.- The Gaia ultracool dwarf sample-IV. GTC/OSIRIS optical spectra of Gaia late-M and L dwarfs**
Cooper, W. J. *et al.* (incluye a Lodieu, N.; García-Álvarez, D.)[2024MNRAS.534..695C](#)

- 599.- The Galaxy Activity, Torus, and Outflow Survey (GATOS). IV. Exploring Ionized Gas Outflows in Central Kiloparsec Regions of GATOS Seyferts**
Zhang, Lulu *et al.* (incluye a Audibert, Anelise; García-Lorenzo, Begoña; Ramos Almeida, Cristina; Esparza-Arredondo, Donaji)[2024ApJ...974..195Z](#)
- 600.- The GAPS Programme at TNG: LIX. Characterisation study of the ~300 Myr-old multi-planetary system orbiting the star BD+40 2790 (TOI-2076)**
Damasso, M. *et al.* (incluye a Palle, E.; Nowak, G.; Béjar, V. J. S.; Carleo, I.; Lodieu, N.; Lorenzi, V.; Mallorquín, M.; Murgas, F.; Orell-Miquel, J.)[2024A&A...690A.235D](#)
- 601.- The GAPS Programme at TNG: LXI. Atmospheric parameters and elemental abundances of TESS young exoplanet host stars**
Filomeno, S. *et al.* (incluye a Carleo, I.)[2024A&A...690A.370F](#)
- 602.- The IACOB project: XII. New grid of northern standards for the spectral classification of B-type stars**
Negueruela, I.; Simón-Díaz, S.; de Burgos, A.; Casasbuenas, A.; Beck, P. G.[2024A&A...690A.176N](#)
- 603.- The K2-24 planetary system revisited by CHEOPS**
Nascimbeni, V. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.)[2024A&A...690A.349N](#)
- 604.- The KIS Science Data Centre: Concept, Data, Data Access, and Analysis Tools**
Caligari, Peter *et al.* (incluye a Collados, Manuel)[2024SoPh..299..143C](#)
- 605.- The MAGPI survey: orbital distributions, intrinsic shapes, and mass profiles for MAGPI-like EAGLE galaxies using Schwarzschild dynamical models**
Santucci, Giulia *et al.* (incluye a Ferré-Mateu, Anna)[2024MNRAS.534..502S](#)
- 606.- The mass of the white dwarf in YY Dra (=DO Dra): Dynamical measurement and comparative study with X-ray estimates**
Álvarez-Hernández, A.; Torres, M. A. P.; Shahbaz, T.; Rodríguez-Gil, P.; Gazeas, K. D.; Sánchez-Sierras, J.; Jonker, P. G.; Corral-Santana, J. M.; Acosta-Pulido, J. A.; Hakala, P.[2024A&A...690A.218A](#)
- 607.- The Nature of 500 micron Risers III: a small complete sample**
Clements, D. L.; Cairns, J.; Greenslade, J.; Petitpas, G.; Ding, Y.; Pérez-Fournon, I.; Riechers, D.[2024MNRAS.533.4045C](#)
- 608.- The Observational and Numerical Analysis of the Rayleigh–Taylor Instability beneath a Hedgerow Prominence**
Rees-Crockford, T.; Scullion, E.; Khomenko, E.; de Vicente, Ángel[2024ApJ...974...64R](#)
- 609.- The Orbit and Companion of PSR J1622-0315: Variable Asymmetry and a Massive Neutron Star**
Sen, Bidisha; Linares, Manuel; Kennedy, Mark R.; Breton, Rene P.; Misra, Devina; Turchetta, Marco; Dhillon, Vikram S.; Mata Sánchez, Daniel; Clark, Colin J.[2024ApJ...973..121S](#)
- 610.- The PAU survey: photometric redshift estimation in deep wide fields**
Navarro-Gironés, D. *et al.* (incluye a Siudek, M.)[2024MNRAS.534.1504N](#)
- 611.- The R-process Alliance: Fifth Data Release from the Search for R-process-enhanced Metal-poor Stars in the Galactic Halo with the GTC**
Bandyopadhyay, Avrajit *et al.* (incluye a Allende Prieto, Carlos)[2024ApJS..274...39B](#)
- 612.- The RAdio Galaxy Environment Reference Survey (RAGERS): Evidence of an anisotropic distribution of submillimeter galaxies in the 4C 23.56 protocluster at $z = 2.48$**
Zhou, D. *et al.* (incluye a Dannerbauer, H.; Laza-Ramos, A.)[2024A&A...690A.196Z](#)
- 613.- The role of active galactic nucleus feedback on the evolution of dwarf galaxies from cosmological simulations: Supermassive black holes suppress star formation in low-mass galaxies**
Arjona-Gálvez, Elena; Di Cintio, Arianna; Grand, Robert J. J.[2024A&A...690A.286A](#)

- 614.- TOI-2379 b and TOI-2384 b: two super-Jupiter mass planets transiting low-mass host stars**
Bryant, Edward M. *et al.* (incluye a Barkaoui, Khalid; Murgas, Felipe)[2024MNRAS.533.3893B](#)
- 615.- Two black widow pulsars in the optical and X-rays**
Bobakov, A. V.; Kirichenko, A. Yu.; Zharikov, S. V.; Karpova, A. V.; Zyuzin, D. A.; Shibanov, Yu. A.; Mennickent, R. E.; Garcia-Álvarez, D.[2024A&A...690A.173B](#)
- 616.- Unveiling the chemical fingerprint of phosphorus-rich stars: II. Heavy-element abundances from UVES/VLT spectra**
Brauner, Maren; Pignatari, Marco; Masseron, Thomas; García-Hernández, D. A.; Lugaro, Maria[2024A&A...690A.262B](#)
- 617.- Validating full-spectrum fitting with a synthetic integral-field spectroscopic observation of the Milky Way**
Wang, Zixian; Sharma, Sanjib; Hayden, Michael R.; van de Sande, Jesse; Bland-Hawthorn, Joss; Vaughan, Sam; Martig, Marie; Pinna, Francesca[2024MNRAS.534.1175W](#)
- 618.- Validation of up to seven TESS planet candidates through multi-colour transit photometry using MuSCAT2 data**
Peláez-Torres, A. *et al.* (incluye a Esparza-Borges, E.; Pallé, E.; Parviainen, H.; Murgas, F.; Morello, G.; Narita, N.; Fukui, A.; Carleo, I.; Abreu García, N.; Barkaoui, K.; Béjar, V. J. S.; Calatayud-Borras, Y.; Enoc, G.; Galán, D.; Geraldía-González, S.; Madrigal-Aguado, A.; Meni, P.; Muñoz Torres, S.; Orell-Miquel, J.; Sánchez-Benavente, M.; Sosa-Guillén, P.)[2024A&A...690A..62P](#)
- 619.- VLT/GRAVITY interferometric measurements of the innermost dust structure sizes around active galactic nuclei**
Gravity Collaboration *et al.* (incluye a Prieto, A.)[2024A&A...690A..76G](#)
- 620.- Weak lensing combined with the kinetic Sunyaev-Zel'dovich effect: a study of baryonic feedback**
Bigwood, L. *et al.* (incluye a Carnero Rosell, A.)[2024MNRAS.534..655B](#)
- 621.- X-ray Observations of the Very-Faint X-ray Transient XMMSL1 J171900.4-353217: A New Candidate Neutron Star Low-Mass X-ray Binary**
Ahmed, O.; Degenaar, N.; Wijnands, R.; Armas Padilla, M.[2024RMxAA..60..403A](#)
- 622.- A giant planet transiting a 3-Myr protostar with a misaligned disk**
Barber, Madyson G. *et al.* (incluye a Murgas, Felipe; Palle, Enric)[2024Natur.635..574B](#)
- 623.- A new method of reconstructing images of gamma-ray telescopes applied to the LST-1 of CTAO**
Abe, K. *et al.* (incluye a Barrios Jiménez, L.; Becerra González, J.; Garcia López, R.; Herrera Llorente, J.; López-Oramas, A.; Molero Gonzalez, M.; Molina, E.; Nievas Rosillo, M.; Vázquez Acosta, M.)[2024A&A...691A.328A](#)
- 624.- Abundances of iron-peak elements in 58 bulge spheroid stars from APOGEE**
Barbuy, B. *et al.* (incluye a Masseron, T.; Queiroz, A. B. A.)[2024A&A...691A.296B](#)
- 625.- Accurate modeling of the forward-scattering Hanle effect in the chromospheric Ca I 4227 Å line**
Belluzzi, Luca; Riva, Simone; Janett, Gioele; Guerreiro, Nuno; Riva, Fabio; Benedusi, Pietro; del Pino Alemán, Tanausú; Ballester, Ernest Alsina; Bueno, Javier Trujillo; Štěpán, Jiří[2024A&A...691A.278B](#)
- 626.- AGN feeding along a one-armed spiral in NGC 4593: A study using ALMA CO(2–1) observations**
Kianfar, K. *et al.* (incluye a Hatziminaoglou, E.)[2024A&A...691A.118K](#)
- 627.- An ultra-short-period super-Earth with an extremely high density and an outer companion**
Livingston, John H. *et al.* (incluye a Nowak, Grzegorz; Palle, Enric; Deeg, Hans)[2024NatSR..1427219L](#)

- 628.- Analysis of the Full Spitzer Microlensing Sample. I. Dark Remnant Candidates and Gaia Predictions**
Rybicki, Krzysztof A. *et al.* (incluye a Fukui, Akihiko)[2024ApJ...975..216R](#)
- 629.- BOWIE-ALIGN: how formation and migration histories of giant planets impact atmospheric compositions**
Penzlin, Anna B. T. *et al.* (incluye a Esparza-Borges, Emma)[2024MNRAS.535..171P](#)
- 630.- CAVITY: Calar Alto Void Integral-field Treasury surveyY: I. First public data release**
García-Benito, Rubén *et al.* (incluye a Falcón-Barroso, Jesús; Ferré-Mateu, Anna; Sánchez-Alarcón, Pablo M.)[2024A&A...691A.161G](#)
- 631.- CEERS Key Paper. IX. Identifying Galaxy Mergers in CEERS NIRC*am* Images Using Random Forests and Convolutional Neural Networks**
Rose, Caitlin *et al.* (incluye a Huertas-Company, Marc)[2024ApJ...976L...8R](#)
- 632.- Chromospheric Modeling of the Active M3V Star G 80–21 with RH1.5D**
Liu, Shuai; Wei, Huigang; Shi, Jianrong; Li, Wenxian; Han, Hengpeng; Liu, Jifeng; Yang, Shangbin[2024ApJ...975..133L](#)
- 633.- CLOUDY modeling suggests a diversity of ionization mechanisms for diffuse extraplanar gas**
Rautio, R. P. V.; Salo, H.; Watkins, A. E.; Comerón, S.; Venhola, A.[2024A&A...691A..16R](#)
- 634.- Constraining the overcontact phase in massive binary evolution: III. Period stability of known B+B and O+B overcontact systems**
Vrancken, Jasmine; Abdul-Masih, Michael; Escorza, Ana; Menon, Athira; Mahy, Laurent; Marchant, Pablo[2024A&A...691A.150V](#)
- 635.- Coronal and chromospheric activity of Teegarden's star**
Fuhrmeister, B. *et al.* (incluye a Béjar, V. J. S.)[2024A&A...691A.208F](#)
- 636.- Correction to: sMILES SSPs: a library of semi-empirical MILES stellar population models with variable $[\alpha/\text{Fe}]$ abundances**
Knowles, Adam T.; Sansom, A. E.; Vazdekis, A.; Allende Prieto, C.[2024MNRAS.534.4060K](#)
- 637.- Could very low-metallicity stars with rotation-dominated orbits have been driven by the bar?**
Yuan, Zhen *et al.* (incluye a Thomas, Guillaume F.)[2024A&A...691L...1Y](#)
- 638.- Counting stars from the integrated spectra of galaxies**
Martín-Navarro, I.; Vazdekis, A.[2024A&A...691L..10M](#)
- 639.- Determination of the anisotropy of elementary particles with the Alpha Magnetic Spectrometer on the International Space Station**
Velasco, Miguel Ángel; Casaus, Jorge; Molero, Miguel[2024AdSpR..74.4346V](#)
- 640.- Distance estimation of gamma-ray-emitting BL Lac objects from imaging observations**
Nilsson, K. *et al.* (incluye a Becerra González, J.; Acosta Pulido, J. A.; Clavero, R.; Otero-Santos, J.)[2024A&A...691A.154N](#)
- 641.- Effect of the local and large-scale environment on the star formation histories of galaxies**
Torres-Ríos, G. *et al.* (incluye a Falcón-Barroso, J.)[2024A&A...691A.341T](#)
- 642.- Environmental Quenching of Low-surface-brightness Galaxies Near Hosts from Large Magellanic Cloud to Milky Way Mass Scales**
Bhattacharyya, J. *et al.* (incluye a Carnero Rosell, A.)[2024ApJ...975..244B](#)
- 643.- Euclid preparation: L. Calibration of the halo linear bias in $\Lambda(\nu)$ CDM cosmologies**
Euclid Collaboration *et al.* (incluye a Colodro-Conde, C.; Balaguera-Antolinez, A.; Diaz, J. J.; Gutierrez, C. M.)[2024A&A...691A..62E](#)
- 644.- Euclid preparation: LII. Forecast impact of super-sample covariance on 3×2 pt analysis with Euclid**
Euclid Collaboration *et al.* (incluye a Colodro-Conde, C.; Rebolo, R.)[2024A&A...691A.318E](#)

- 645.- Euclid preparation: LIII. LensMC, weak lensing cosmic shear measurement with forward modelling and Markov Chain Monte Carlo sampling**
Euclid Collaboration *et al.* (incluye a Rebolo, R.; Colodro-Conde, C.)[2024A&A...691A.319E](#)
- 646.- Euclid preparation: XLIX. Selecting active galactic nuclei using observed colours**
Euclid Collaboration *et al.* (incluye a Rebolo, R.; Colodro-Conde, C.)[2024A&A...691A...1E](#)
- 647.- Exploring massive star early evolution: the case of the Herschel 36 A triple system**
Arias, Julia I.; Holgado, Gonzalo; Gamen, Roberto; Morrell, Nidia I.; Campillay, Abdo R.[2024MNRAS.535..359A](#)
- 648.- Exploring the Magnetic and Thermal Evolution of a Coronal Jet**
Nayak, Sushree S.; Sen, Samrat; Shrivastav, Arpit Kumar; Bhattacharyya, R.; Athiray, P. S.[2024ApJ...975..143N](#)
- 649.- First Detection of Molecular Gas in the Giant Low Surface Brightness Galaxy Malin 1**
Galaz, Gaspar *et al.* (incluye a Junais)[2024ApJ...975L..26G](#)
- 650.- First light simultaneous triple-channel optical observations of the OPTICAM system at the OAN-SPM**
Castro, Angel *et al.* (incluye a Vincentelli, Federico)[2024NewA..11202262C](#)
- 651.- Full Abundance Study of Two Newly Discovered Barium Giants**
Vitali, Sara; Escorza, Ana; Slumstrup, Ditte; Jofré, Paula[2024ApJ...975...47V](#)
- 652.- Full Stokes-vector Inversion of the Solar Mg II h and k Lines**
Li, Hao; del Pino Alemán, Tanausú; Trujillo Bueno, Javier[2024ApJ...975..110L](#)
- 653.- HD 21520 b: a warm sub-Neptune transiting a bright G dwarf**
Nies, Molly *et al.* (incluye a Palle, Enric)[2024MNRAS.534.3744N](#)
- 654.- High-resolution observations of recurrent jets from an arch filament system**
Joshi, Reetika; Rouppe van der Voort, Luc; Schmieder, Brigitte; Moreno-Insertis, Fernando; Prasad, Avijeet; Aulanier, Guillaume; Nóbrega-Siverio, Daniel[2024A&A...691A.198J](#)
- 655.- Hints of auroral and magnetospheric polarized radio emission from the scallop-shell star 2MASS J05082729–2101444**
Kaur, Simranpreet *et al.* (incluye a Béjar, Víctor J. S.; Murgas, Felipe; Palle, Enric)[2024A&A...691L..17K](#)
- 656.- J-PLUS: Bayesian object classification with a strum of BANNJOS**
del Pino, A. *et al.* (incluye a Hernández-Monteagudo, C.)[2024A&A...691A.221D](#)
- 657.- J-PLUS: The fraction of calcium white dwarfs along the cooling sequence**
López-Sanjuan, C. *et al.* (incluye a Hernández-Monteagudo, C.)[2024A&A...691A.211L](#)
- 658.- KISS: Instrument Description and Performance**
Macías-Pérez, J. F. *et al.* (incluye a Fernández-Torreiro, M.; Fasano, A.; Aguiar, M.; Castro-Almazán, J. A.; de Taoro, A. P.; Génova-Santos, R. T.; Gómez-Renasco, M. F.; Hoyland, R.; Peel, M. W.; Rebolo, R.; Rubiño-Martín, J. A.; Viera-Curvelo, T.)[2024PASP..136k4505M](#)
- 659.- Lens Mass Estimate in the Galactic Disk Extreme Parallax Microlensing Event Gaia19dke**
Maskoliūnas, M. *et al.* (incluye a Dhillon, V. S.)[2024AcA....74...77M](#)
- 660.- Long-term Study of the 2020 Magnetar-like Outburst of the Young Pulsar PSR J1846-0258 in Kes 75**
Sathyaprakash, R. *et al.* (incluye a Borghese, A.)[2024ApJ...976...56S](#)
- 661.- Low surface brightness dwarf galaxies and their globular cluster populations around the low-density environment of our closest S0 NGC 3115**
Canossa-Gosteinski, Marco A. *et al.* (incluye a Beasley, Michael A.; Queiroz, Anna B. A.)[2024MNRAS.534.1729C](#)

- 662.- Magnetic Fields in a Sample of Planet-hosting M Dwarf Stars from Kepler, K2, and TESS Observed by APOGEE**
Wanderley, Fábio *et al.* (incluye a Allende Prieto, C.)[2024ApJ...975..109W](#)
- 663.- MeerKAT observations of Herschel protocluster candidates**
Ding, Y. *et al.* (incluye a Dannerbauer, H.; Gutiérrez, C. M.; Carnero, A.)[2024MNRAS.535..370D](#)
- 664.- Microlensing analysis of 14.5-year light curves in SDSS J1004+4112: Quasar accretion disk size and intracluster stellar mass fraction**
Forés-Toribio, R.; Muñoz, J. A.; Fian, C.; Jiménez-Vicente, J.; Mediavilla, E.[2024A&A...691A..97F](#)
- 665.- Microlensing brown-dwarf companions in binaries detected during the 2022 and 2023 seasons**
Han, Cheongho *et al.* (incluye a Fukui, Akihiko)[2024A&A...691A.237H](#)
- 666.- Modelling the impact of host galaxy dust on type Ia supernova distance measurements**
Popovic, B. *et al.* (incluye a Burke, D. L.; Plazas Malagón, A. A.)[2024MNRAS.534.2263P](#)
- 667.- Multiple reference star differential imaging with VLT/SPHERE: Influence of the reference frame selection and library**
Romero, C.; Milli, J.; Lagrange, A. -M.; De Rosa, R.; Ertel, S.; del Burgo, C.[2024A&A...691A.267R](#)
- 668.- New Astronomical Observatory Design for the Detection and Tracking of Satellite Objects: The Satellite Robotic Observatory (SRO)**
Espartero, Francisco; Cubas, Javier; Nespral, David; Pindado, Santiago[2024RemS...16.4206E](#)
- 669.- Physical properties of trans-Neptunian object (143707) 2003 UY₁₁₇ derived from stellar occultation and photometric observations**
Kretlow, M. *et al.* (incluye a Alarcon, M. R.; Licandro, J.; Murgas, F.; Pallé, E.; Serra-Ricart, M.)[2024A&A...691A..31K](#)
- 670.- Polycyclic Aromatic Hydrocarbon Emission in the Central Regions of Three Seyferts and the Implication for Underlying Feedback Mechanisms**
Zhang, Lulu *et al.* (incluye a Ramos Almeida, Cristina; Esparza-Arredondo, Donaji; Audibert, Anelise)[2024ApJ...975L...2Z](#)
- 671.- Reconciling concentration to virial mass relations**
Leier, Dominik; Ferreras, Ignacio; Negri, Andrea; Saha, Prasenjit[2024A&A...691A.362L](#)
- 672.- Recovering chemical bimodalities in observed edge-on stellar disks: Insights from AURIGA simulations**
Pinna, Francesca; Grand, Robert J. J.; Martig, Marie; Fragkoudi, Francesca[2024A&A...691A..61P](#)
- 673.- Seismic differences between solar magnetic cycles 23 and 24 for low-degree modes**
García, R. A.; Breton, S. N.; Salabert, D.; Tripathy, S. C.; Jain, K.; Mathur, S.; Panetier, E.[2024A&A...691L..20G](#)
- 674.- Standardised formats and open-source analysis tools for the MAGIC telescopes data**
Abe, S. *et al.* (incluye a Becerra González, J.; García López, R. J.; Herrera Llorente, J.; López-Oramas, A.; Molero González, M.; Molina, E.; Nieves Rosillo, M.; Vazquez Acosta, M.)[2024JHEAp..44..266A](#)
- 675.- Study of the excitation of large-amplitude oscillations in a prominence by nearby flares**
Luna, Manuel; Joshi, Reetika; Schmieder, Brigitte; Moreno-Insertis, Fernando; Liakh, Valeriia; Terradas, Jaume[2024A&A...691A.354L](#)
- 676.- SWEET-Cat: A view on the planetary mass-radius relation**
Sousa, S. G. *et al.* (incluye a Israelian, G.)[2024A&A...691A..53S](#)
- 677.- The Cosmological Optical Convergence: Extragalactic Background Light from TeV Gamma Rays**
Gréaux, Lucas; Biteau, Jonathan; Nieves Rosillo, Mireia[2024ApJ...975L..18G](#)

- 678.- **The curious case of 2MASS J15594729+4403595, an ultra-fast M2 dwarf with possible Rieger cycles**
Messina, S.; Catanzaro, G.; Lanza, A. F.; Gandolfi, D.; Serrano, M. M.; Deeg, H. J.; García-Alvarez, D.[2024A&A...691A.117M](#)
- 679.- **The Dark Energy Survey Supernova Program: Cosmological Analysis and Systematic Uncertainties**
Vincenzi, M. *et al.* (include a Carnero Rosell, A.)[2024ApJ...975...86V](#)
- 680.- **The Dark Energy Survey Supernova Program: Light Curves and 5 Yr Data Release**
Sánchez, B. O. *et al.* (include a Carnero Rosell, A.)[2024ApJ...975....5S](#)
- 681.- **The DESI Early Data Release white dwarf catalogue**
Manser, Christopher J. *et al.* (include a Allende Prieto, Carlos)[2024MNRAS.535..254M](#)
- 682.- **The Galaxy Activity, Torus, and Outflow Survey (GATOS): V. Unveiling PAH survival and resilience in the circumnuclear regions of AGNs with JWST**
García-Bernete, I. *et al.* (include a Audibert, A.; Esparza-Arredondo, D.; Ramos Almeida, C.)[2024A&A...691A.162G](#)
- 683.- **The gravitational lensing imprints of DES Y3 superstructures on the CMB: a matched filtering approach**
Demirbozan, U. *et al.* (include a Carnero Rosell, A.; da Costa, L. N.; Ogando, R. L. C.)[2024MNRAS.534.2328D](#)
- 684.- **The inflated, eccentric warm Jupiter TOI-4914 b orbiting a metal-poor star, and the hot Jupiters TOI-2714 b and TOI-2981 b**
Mantovan, G. *et al.* (include a Barkaoui, K.)[2024A&A...691A..67M](#)
- 685.- **The obliquity and atmosphere of the hot Jupiter WASP-122b (KELT-14b) with ESPRESSO: An aligned orbit and no sign of atomic or molecular absorption**
Stangret, M. *et al.* (include a Palle, E.; Esparza-Borges, E.; Orell Miquel, J.; Casasayas-Barris, N.; González Hernández, J. I.; Suárez Mascareño, A.)[2024A&A...691A.120S](#)
- 686.- **The redshift evolution of galactic bar pattern speed in TNG50**
Habibi, Asiyeh; Roshan, Mahmood; Hosseinirad, Mohammad; Khosroshahi, Habib; Aguerri, J. A. L.; Cuomo, Virginia; Abbassi, Shahram[2024A&A...691A.122H](#)
- 687.- **TOI 762 A b and TIC 46432937 b: Two Giant Planets Transiting M-dwarf Stars**
Hartman, Joel D. *et al.* (include a Barkaoui, Khalid)[2024AJ....168..202H](#)
- 688.- **TOI-5005 b: A super-Neptune in the savanna near the ridge**
Castro-González, A. *et al.* (include a Barkaoui, K.)[2024A&A...691A.233C](#)
- 689.- **Transferring spectroscopic stellar labels to 217 million Gaia DR3 XP stars with SHBoost**
Khalatyan, A. *et al.* (include a Queiroz, A. B. A.)[2024A&A...691A..98K](#)
- 690.- **Unveiling the shape: A multi-wavelength analysis of the galaxy clusters Abell 76 and Abell 1307**
Barrena, R.; Pizzuti, L.; Chon, G.; Böhringer, H.[2024A&A...691A.135B](#)
- 691.- **Value-added catalog of physical properties for more than 1.3 million galaxies from the DESI survey**
Siudek, M. *et al.*[2024A&A...691A.308S](#)
- 692.- **X-ray and optical observations of the millisecond pulsar binary PSR J1431–4715**
de Martino, D.; Phosrisom, A.; Dhillon, V. S.; Torres, D. F.; Coti Zelati, F.; Breton, R. P.; Marsh, T. R.; Miraval Zanon, A.; Rea, N.; Papitto, A.[2024A&A...691A..36D](#)
- 693.- **"SNe Ia Twins for Life": Toward a Precise Determination of H_0**
Ruiz-Lapuente, P.; González Hernández, J. I.[2024ApJ...977..180R](#)

- 694.- **A Fourth Planet in the Kepler-51 System Revealed by Transit Timing Variations**
Masuda, Kento *et al.* (incluye a Narita, Norio; Fukui, Akihiko; Palle, Enric; Murgas, Felipe; Parviainen, Hannu; Esparza-Borges, Emma; Barkaoui, Khalid)[2024AJ....168..294M](#)
- 695.- **A Tale of Three: Magnetic Fields along the Orion Integral-shaped Filament as Revealed by the JCMT BISTRO Survey**
Wu, Jintai *et al.* (incluye a Poidevin, Frédéric)[2024ApJ...977L..31W](#)
- 696.- **A wiggling filamentary jet at the origin of the blazar multi-wavelength behaviour**
Raiteri, C. M. *et al.* (incluye a Acosta-Pulido, J. A.)[2024A&A...692A..48R](#)
- 697.- **Architecture of TOI-561 planetary system**
Piotto, G. *et al.* (incluye a Lacedelli, G.; Alonso, R.; Pallé, E.; Villaver, E.)[2024MNRAS.535.2763P](#)
- 698.- **ASW²DF: Census of the obscured star formation in a galaxy cluster in formation at $z = 2.2$**
Zhang, Y. H. *et al.* (incluye a Dannerbauer, H.; Pérez-Martínez, J. M.; D'Eugenio, C.)[2024A&A...692A..22Z](#)
- 699.- **BASS. XLI. The Correlation between Mid-infrared Emission Lines and Active Galactic Nuclei Emission**
Bierschenk, M. *et al.* (incluye a Riffel, R.)[2024ApJ...976..257B](#)
- 700.- **Blue supergiants as a progenitor of intermediate-luminosity red transients**
Moriya, Takashi J.; Menon, Athira[2024PASJ...76L..27M](#)
- 701.- **Broadband multi-wavelength properties of M87 during the 2018 EHT campaign including a very high energy flaring episode**
Algaba, J. C. *et al.* (incluye a Becerra González, J.; García López, R. J.; Herrera Llorente, J.; López-Oramas, A.; Molero González, M.; Molina, E.; Nieves Rosillo, M.; Vazquez Acosta, M.)[2024A&A...692A.140A](#)
- 702.- **CARMENES input catalogue of M dwarfs: VIII. Kinematics in the solar neighbourhood**
Cortés-Contreras, M. *et al.* (incluye a Cardona-Guillén, C.; Béjar, V. J. S.; Lodieu, N.)[2024A&A...692A.206C](#)
- 703.- **Characterisation at Cryogenic Temperatures of an Attenuator for an Application of Astrophysical Instrumentation with MKIDs**
Portero Rodríguez D; García Vázquez H.; Martínez Rodríguez J.L.; Hernández Alonso S.E.; Joven Alvarez E.; Hoyland R.J.; Díaz García J.J.; Rodríguez Ramos L.F.[10.3390/s24248129](#)
- 704.- **Characterisation of TOI-406 as a showcase of the THIRSTEE program: A two-planet system straddling the M-dwarf density gap**
Lacedelli, G. *et al.* (incluye a Pallé, E.; Murgas, F.; Carleo, I.; González Hernández, J. I.; Nari, N.; Orell-Miquel, J.)[2024A&A...692A.238L](#)
- 705.- **Chemo-dynamics of the stellar component of the Sculptor dwarf galaxy: I. Observed properties**
Arroyo-Polonio, José María; Battaglia, Giuseppina; Thomas, Guillaume F.; Pascale, Raffaele; Tolstoy, Eline; Nipoti, Carlo[2024A&A...692A.195A](#)
- 706.- **CLASH-VLT: Galaxy cluster MACS J0329–0211 and its surroundings using galaxies as kinematic tracers**
Girardi, M. *et al.* (incluye a Boschin, W.)[2024A&A...692A.175G](#)
- 707.- **CO-CAVITY project: Molecular gas and star formation in void galaxies**
Rodríguez, M. I. *et al.* (incluye a Falcón-Barroso, J.)[2024A&A...692A.125R](#)
- 708.- **COBIPULSE: A Systematic Search for Compact Binary Millisecond Pulsars**
Turchetta, Marco; Linares, Manuel; Koljonen, Karri; Casares, Jorge; Miles-Páez, Paulo A.; Rodríguez-Gil, Pablo; Shahbaz, Tariq; Simpson, Jordan A.[2024ApJ...977...65T](#)

- 709.- Confirmation of four hot Jupiters detected by TESS using follow-up spectroscopy from MaHPS at Wendelstein together with NEID and TRES**
Ehrhardt, Juliana *et al.* (incluye a Esparza-Borges, Emma; Fukui, Akihiko; de Leon, Jerome; Murgas, Felipe; Narita, Norio; Palle, Enric; Parviainen, Hannu)[2024A&A...692A.220E](#)
- 710.- Constraints on VHE gamma-ray emission of flat spectrum radio quasars with the MAGIC telescopes**
Abe, S. *et al.* (incluye a Becerra González, J.; García López, R. J.; Herrera, J.; López-Oramas, A.; Molero González, M.; Molina, E.; Nievas Rosillo, M.; Vazquez Acosta, M.)[2024MNRAS.535.1484A](#)
- 711.- Crimson Behemoth: A massive clumpy structure hosting a dusty AGN at $z=4.91$**
Tanaka, Takumi S. *et al.* (incluye a Huertas-Company, Marc)[2024PASJ...76.1323T](#)
- 712.- DESI Emission-line Galaxies: Unveiling the Diversity of [O II] Profiles and Its Links to Star Formation and Morphology**
Lan, Ting-Wen *et al.* (incluye a Siudek, Małgorzata)[2024ApJ...977..225L](#)
- 713.- Dynamical system analysis and observational constraints of cosmological models in mimetic gravity**
Fritis, Alberto; Villalobos-Silva, Daniel; Vásquez, Yerko; López-Caraballo, Carlos H.; Helo, Juan Carlos[2024PDU...4601650F](#)
- 714.- Euclid: High-precision imaging astrometry and photometry from Early Release Observations: I. Internal kinematics of NGC6397 by combining Euclid and Gaia data**
Libralato, M. *et al.* (incluye a Battaglia, G.; Colodro-Conde, C.; Rebolo, R.)[2024A&A...692A..96L](#)
- 715.- Euclid: The r_s - M relation as a function of redshift: I. The $5 \times 10^9 M_\odot$ black hole in NGC 1272**
Saglia, R. *et al.* (incluye a Colodro-Conde, C.; Rebolo, R.)[2024A&A...692A.124S](#)
- 716.- Expanding the Ultracompacts: Gravitational-wave-driven Mass Transfer in the Shortest-period Binaries with Accretion Disks**
Chakraborty, Joheen *et al.* (incluye a Rodríguez-Gil, Pablo; Dhillon, V. S.)[2024ApJ...977..262C](#)
- 717.- Fragments of harmony amid apparent chaos: A closer look at the X-ray quasi-periodic eruptions of the galaxy RX J1301.9+2747**
Giustini, Margherita *et al.* (incluye a Vincentelli, Federico)[2024A&A...692A..15G](#)
- 718.- Hints of a close outer companion to the ultra-hot Jupiter TOI-2109 b**
Harre, J. -V. *et al.* (incluye a Parviainen, H.; Alonso, R.; Pallé, E.; Villaver, E.)[2024A&A...692A.254H](#)
- 719.- Identifying New High-confidence Polluted White Dwarf Candidates Using Gaia XP Spectra and Self-organizing Maps**
Pérez-Couto, Xabier; Pallas-Quintela, Lara; Manteiga, Minia; Villaver, Eva; Dafonte, Carlos[2024ApJ...977...31P](#)
- 720.- JWST/NIRCam Narrowband Survey of Pa β Emitters in the Spiderweb Protocluster at $z = 2.16$**
Shimakawa, Rhythm; Pérez-Martínez, J. M.; Dannerbauer, Helmut; Koyama, Yusei; Kodama, Tadayuki; Pérez-González, Pablo G.; D'Eugenio, Chiara; Zhang, Yuheng; Naufal, Abdurrahman; Daikuhara, Kazuki[2024ApJ...977...73S](#)
- 721.- JWST/NIRCam Pa β Narrowband Imaging Reveals Ordinary Dust Extinction for H α Emitters within the Spiderweb Protocluster at $z = 2.16$**
Pérez-Martínez, Jose Manuel; Dannerbauer, Helmut; Koyama, Yusei; Pérez-González, Pablo G.; Shimakawa, Rhythm; Kodama, Tadayuki; Zhang, Yuheng; Daikuhara, Kazuki; D'Eugenio, Chiara; Naufal, Abdurrahman[2024ApJ...977...74P](#)
- 722.- Kicking Time Back in Black Hole Mergers: Ancestral Masses, Spins, Birth Recoils, and Hierarchical-formation Viability of GW190521**
Araújo-Álvarez, Carlos; Wong, Henry W. Y.; Liu, Anna; Calderón Bustillo, Juan[2024ApJ...977..220A](#)

- 723.- KMT-2021-BLG-0284, KMT-2022-BLG-2480, and KMT-2024-BLG-0412: Three microlensing events involving two lens masses and two source stars**
Han, Cheongho *et al.* (incluye a Fukui, Akihiko)[2024A&A...692A.221H](#)
- 724.- Large-scale stellar age-velocity spiral pattern in NGC 4030**
Breda, Iris *et al.* (incluye a Falcón-Barroso, Jesus)[2024A&A...692L..10B](#)
- 725.- Leveraging Movement Representation from Contrastive Learning for Asteroid Detection**
Kongsathitporn, Noppachanin *et al.* (incluye a Dhillon, Vik. S.; Pallé, Enric)[2024PASP..136I4507K](#)
- 726.- Linking the primordial composition of planet building disks to the present-day composition of rocky exoplanets**
Adibekyan, V. *et al.* (incluye a Israelian, G.)[2024A&A...692A..67A](#)
- 727.- LiteBIRD science goals and forecasts. Mapping the hot gas in the Universe**
Remazeilles, M. *et al.* (incluye a Rubiño-Martín, J. A.; Hernández-Monteagudo, C.; Génova-Santos, R. T.; González González, R.)[2024JCAP...12..026R](#)
- 728.- MASTER OT J030227.28+191754.5: An unprecedentedly energetic dwarf nova outburst**
Tampo, Yusuke *et al.* (incluye a Narita, Norio; Fukui, Akihiko)[2024PASJ...76.1228T](#)
- 729.- Model-independent reconstruction of UV luminosity function and reionization epoch**
Adak, Debabrata; Hazra, Dhiraj Kumar; Mitra, Sourav; Krishak, Aditi[2024JCAP...12..010A](#)
- 730.- Multi-dimensional optimisation of the scanning strategy for the LiteBIRD space mission**
Takase, Y. *et al.* (incluye a González González, R.)[2024JCAP...12..036T](#)
- 731.- Non-local thermodynamic equilibrium inversions of the Si I 10827 Å spectral line**
Quintero Noda, C.; Shchukina, N. G.; Asensio Ramos, A.; Martínez González, M. J.; del Pino Alemán, T.; Trelles Arjona, J. C.; Collados, M.[2024A&A...692A.169Q](#)
- 732.- pathfinder: A Semantic Framework for Literature Review and Knowledge Discovery in Astronomy**
Iyer, Kartheik G. *et al.* (incluye a Huertas-Company, Marc; Smith, Michael J.)[2024ApJS..275...38I](#)
- 733.- Physical properties of five near-Earth asteroids within the NEOROCKS project**
Medeiros, H. *et al.* (incluye a Licandro, J.; de León, J.; Alarcon, M. R.; Serra-Ricart, M.)[2024MNRAS.535.3479M](#)
- 734.- Probing Na in giant exoplanets with ESPRESSO and 3D NLTE stellar spectra**
Canocchi, G.; Morello, G.; Lind, K.; Carleo, I.; Stangret, M.; Pallé, E.[2024A&A...692A..43C](#)
- 735.- Propagation of untwisting solar jets from the low-beta corona into the super-Alfvénic wind: Testing a solar origin scenario for switchbacks**
Touresse, J.; Pariat, E.; Froment, C.; Aslanyan, V.; Wyper, P. F.; Seyfritz, L.[2024A&A...692A..71T](#)
- 736.- Revealing the Quiescent Galaxy Population in the Spiderweb Protocluster at $z = 2.16$ with Deep HST/WFC3 Slitless Spectroscopy**
Naufal, Abdurrahman; Koyama, Yusei; D'Eugenio, Chiara; Dannerbauer, Helmut; Shimakawa, Rhythm; Pérez-Martínez, Jose Manuel; Kodama, Tadayuki; Zhang, Yuheng; Daikuhara, Kazuki[2024ApJ...977...58N](#)
- 737.- Secondary halo bias through cosmic time: II. Reconstructing halo properties using clustering information**
Balaguera-Antolínez, Andrés; Montero-Dorta, Antonio D.[2024A&A...692A..32B](#)
- 738.- Spectroscopic analysis of the strongly lensed SN Encore: constraints on cosmic evolution of Type Ia supernovae**
Dhawan, S. *et al.* (incluye a Poidevin, F.; Pérez-Fournon, I.)[2024MNRAS.535.2939D](#)
- 739.- The CARMENES search for exoplanets around M dwarfs: The impact of rotation and magnetic fields on the radial velocity jitter in cool stars**
Ruh, H. L. *et al.* (incluye a Béjar, V. J. S.)[2024A&A...692A.138R](#)

- 740.- **The CHEOPS view of the climate of WASP-3 b**
Scandariato, G. *et al.* (incluye a Alonso, R.; Pallé, E.; Villaver, E.)[2024A&A...692A.129S](#)
- 741.- **The JCMT BISTRO Survey: The Magnetic Fields of the IC 348 Star-forming Region**
Choi, Youngwoo *et al.* (incluye a Poidevin, Frédéric)[2024ApJ...977...32C](#)
- 742.- **The physical properties of two potential targets for space missions: (155140) 2005 UD and (612267) 2001 SG286**
Gherase, R. M. *et al.* (incluye a Vaduvescu, O.; de León, J.; Lorenzi, V.; Licandro, J.; Morate, D.)[2024MNRAS.535.3077G](#)
- 743.- **The Pristine survey: XXIII. Data Release 1 and an all-sky metallicity catalogue based on Gaia DR3 BP/RP spectro-photometry**
Martin, Nicolas F. *et al.* (incluye a Aguado, David S.; Battaglia, Giuseppina; Fernández-Alvar, Emma; González Hernández, Jonay I.; Thomas, Guillaume F.)[2024A&A...692A.115M](#)
- 744.- **The Pristine survey: XXIV. The Galactic underdogs: Dynamic tales of a Milky Way metal-poor population**
de La Vernhe, Isaure González Rivera *et al.* (incluye a Fernández-Alvar, Emma; Thomas, Guillaume F.; Battaglia, Giuseppina)[2024A&A...692A.131D](#)
- 745.- **The return of FarNet-II: Generation of solar far-side magnetograms from helioseismic data**
Broock, E. G.; Asensio Ramos, A.; Felipe, T.[2024A&A...692A.182B](#)
- 746.- **Unequivocal detection of the tidal deformation of a red giant in a binary system via interferometry**
Merc, Jaroslav; Boffin, Henri M. J.[2024A&A...692A.218M](#)
- 747.- **Unveiling the ice and gas nature of active centaur (2060) Chiron using the James Webb Space Telescope**
Pinilla-Alonso, N. *et al.* (incluye a Licandro, J.)[2024A&A...692L..11P](#)
- 748.- **WEAVE First Light Observations: Origin and Dynamics of the Shock Front in Stephan's Quintet**
Arnaudova, M. I. *et al.* (incluye a Knapen, J. H.; Balcells, M.; Aguado, D.; Aguerri, J. A. L.; Barrena, R.; Berlanas, S. R.; Domínguez-Palmero, L.; Fariña, C.; Méndez-Abreu, J.)[2024MNRAS.535.2269A](#)
- 749.- **Time and Culture Across the Iberian Lands: The Cathedrals' Orientation Paradigm—A Diachronic Analysis of the Orientation of the Cathedrals of Portugal and Spain.**
Urrutia-Aparicio, M.; Belmonte, J. A.; González-García, A. C.[10.5281/zenodo.13382956](#)
- 750.- **A very personal semblance of archaeoastronomy pioneer Professor Michael Hoskin, colleague, mentor and friend**
Belmonte, Juan Antonio[10.24215/26840162e011](#)
- 751.- **Astronomy and Culture on the Camino de Santiago**
Urrutia-Aparicio, M.; González-García, A.C.; Belmonte, J.A.[10.24215/26840162e003](#)
- 752.- **Symbiotic stars, weird novae, and related embarrassing binaries**
Merc, Jaroslav; Mikolajewska, Joanna [2024NatAs...8.1504M](#)

INVITED REVIEWS

2024-IR

Ferré-Mateu A. "Observed structural properties of UDGs", Invited Review at 'SS7: Unlocking the secrets of UDGs, a deeper perspective' en "EAS2024", 1-5 Julio, Padova, Italia.

Suárez Mascareño, A. "2 Young 2 Furious – Challenges and opportunities in the study of young exoplanets" en "SS13: Young and Mischievous: close-in exoplanets around young stars" de la "EAS2024", 1-5 Julio, Padova, Italia.

Suárez Mascareño, A. "Same ingredients, diferent recipes. The composition of exoplanets" en "16th International Conference on Gas Geochemistry, 16-22 Junio, Tenerife.

Jones, D. "Post-common-envelope Binaries" en "Kopal 2024: Binary and Multiple Stars in the Era of Big Sky Surveys", 9-13 Septiembre, Litomyšl, República Checa.

Martínez-Pillet V. "The Instituto de Astrofísica de Canarias and the Canary Islands Observatories: Past, Present and Future" en "LSST@EUROPE6", 16-20 Septiembre, La Palma.

Corradi R.L.M., Knapen J.H. "The Gran Telescopio de Canarias and its place in the in-kind programme" en "LSST@EUROPE6", 16-20 Septiembre, La Palma.

López-Oramas, A. "VHE overview of gamma-ray binaries" en "CDY Workshop on Gamma-Ray Loud Binaries", 7-10 Octubre, Dublín, Irlanda.

López-Oramas, A. "VHE Galactic Physics" en "11th International Workshop on Very High Energy Astroparticle Astronomy", 17-19 Octubre, Kanpur, India.

- Invited plenary. López-Oramas, A; *CTAO Status and Perspectives*, RICAP 2024, Frascati, Italia 24-27 sep 2024

LIBROS Y CAPÍTULOS DE LIBROS (Books & Book Chapters, Conference Proceedings included)

2024-L

Srivastava A.K., Goossens M., Arregui I. (eds.) "Magnetohydrodynamic Processes in Solar Plasmas" (Elsevier) ISBN: 9780323956642.

Davis, A. E. L., Field, J. V., Mahoney, T. J. (eds.) "*Reading the Mind of God: Johannes Kepler and the Reform of Astronomy*" (Springer), in press

Beckman, J.E. "Multimessenger Astronomie" Multimessenger Astronomie. ISBN: 978-3-031-36039-8. Cham: Springer International Publishing 2024muas.book.....B

Capítulos de libros

Field, J. V., Mahoney, T. J. "Introduction: Kepler's place in the history of science" "Reading the Mind of God: Johannes Kepler and the Reform of Astronomy" (Springer), in press

Mahoney, T. J. "Measuring the heavens: how Tycho Brahe revolutionized observational astronomy" in "Reading the Mind of God: Johannes Kepler and the Reform of Astronomy" (Springer), in press

González-García, A.C., Belmonte, J.A. "Caral, the Moon and the River in the preceramic Andes" En CALA (Cultural Astronomy in latin America). Ed. by S. Gullberg and C. Zen Vasconcellos (2024), 135-155 World Scientific: Singapur.

Arregui, I., Van Doorselaere, T. "Coronal heating" in Srivastava A.K., Goossens M., Arregui I. (eds.) "Magnetohydrodynamic Processes in Solar Plasmas" (Elsevier) ISBN: 9780323956642

Khomenko, E., Martínez-Gómez, D. "MHD waves in the partially ionized plasma: from single to multifluid approach" in Srivastava A.K., Goossens M., Arregui I. (eds.) "Magnetohydrodynamic Processes in Solar Plasmas" (Elsevier) ISBN: 9780323956642.

Esteban, C., Plana Mallart, R., Codina Falgàs, F., del Prado Cordero, G. "Los templos de la ciudad ibérica de Ullastret: consideraciones arqueoastronómicas preliminares" en C. Rísquez, C. Rueda, M. Molinos, J. P. Bellón, F. Hornos (coords.), "Arturo C. Ruiz Rodríguez y la arqueología ibera en Jaén. Homenaje a 50 años de trayectoria", Servicio de Publicaciones de la Universidad de Jaén : Jaén, ISBN 978-84-9159-601-1, pág 69-77.

Carosi A., López-Oramas A., "A Very-High-Energy Gamma-Ray View of the Transient Sky", publicado en el libro Recent advances in Gamma Ray Astrophysics and Future Perspectives, DOI: 10.3390/books978-3-7258-1243-1, ISBN 978-3-7258-1244-8

COMUNICACIONES A CONGRESOS INTERNACIONALES (Contributions delivered at International Meetings)

2024-CI

“AAS 243: Meeting of the American Astronomical Society”, 7-11 Enero, Nueva Orleans, EEUU.

Jennelle M.; Hambleton K.; Beck P., Scot F. “Refining Masses and Radii in Eclipsing Binary Systems for the Purpose of Calibrating the Asteroseismic Scaling Relations” (P).

Keshri R., Hambleton K., Beck P., Scot F. “Modeling Oscillating Red Giant Binary Systems Using PHOEBE” (P).

Callahan L., Hambleton K., Beck P., Scot F. “Increasing the Precision of Red Giant Eclipsing Binary Parameters” (P).

“Transients Down Under”, 29 Enero-2 Febrero, Melbourne, Australia.

Aguado D. “SN2023ixf: the most detailed flash spectroscopy event observed from the Canary observatories” (CO)

“Optical Design Meeting”, 8 Febrero, La Laguna, Tenerife.

Feijoo N. “Integration and optical alignment of the MCAO testbed for the EST” (P).

“Galaxies & AGN with the First Euclid Data and Beyond”, 14-16 Febrero, Bolonia, Italia.

Iglesias-Navarro P. “Inferring Stellar Population Properties with Bayesian Deep Learning in the Euclid Era” (CO).

“Yearly meeting of the ERC Synergy Grant “The Whole Sun”, 4-22 Marzo, Paris-Saclay, Francia.

Sen S. “Hot Meets Cold: From Eruption to post-flare coronal rain” (IT).

Nóbrega-Siverio, D.; Moreno-Insertis, F.; Galsgaard, K.; Krikova, K.; Rouppe van der Voort, L.; Joshi, R.; Madjarska, M. S. “Deciphering Solar Coronal Heating: Energizing Small-scale Loops through Surface Convection” (CO).

“AECC24: Austrian Early Career Conference”, 8-9 Marzo, Salzburg, Austria.

Grossmann D.H., Beck P.G., Schimak L.S., Muntean N., Johnston C., Zinn J., Mathur S., Hanslmeier A. “KIC 9163796 - Age determination by asteroseismic grid modeling for an oscillating red giant binary” (CO).

Pérez Martínez J.M. “The molecular gas perspective on the growth and death of H α emitters in the Spiderweb protocluster at z=2.16” (CO).

Steinwender L., Beck P.G., Hambleton K., Hanslmeier A. “Unsupervised Classification of RR Lyrae Stars” (CO).

Beck, P. G.; Grossmann, D. H.; Steinwender, L.; Schimak, L. S.; Muntean, N. and the authors of Beck et al. “Constraining stellar and orbital co-evolution through ensemble seismology of solar-like oscillators in binary systems” (P).

Muntean, P.G. Beck, D. Grossmann, L. Schimak, R. A. Garcia, S. Mathur, A. Hanslmeier "Constraining the core-rotation rate along the red-giant evolution" (P).

Suntiger T., Beck P. G., Camalich J. M., Hanslmeier A. "Determination of the Luminosity of Stars at the Tip of the Red-Giant Branch from Gaia Observations as Proxy for the Effectiveness of Axion Cooling" (P).

Steinwender L., Beck P.G., Hambleton K., Hanslmeier A. "Unsupervised Classification of RR Lyrae Stars" (P).

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Daniel Nóbrega-Siverio, Fernando Moreno-Insertis, Klaus Galsgaard, Kilian Krikova, Luc Rouppe van der Voort, Reetika Joshi, Maria Madjarska. "Deciphering solar coronal heating: Energizing small-scale loops through surface convection" (CO).

Andrew Hillier, Inigo Arregui, Matsumoto Takeshi. "A new analytic model for nonlinear wave damping in coronal loops by Kelvin-Helmholtz instability-induced turbulence" (CO).

Dmitrii Y. Kolotkov, Inigo Arregui, Valery M. Nakariakov. "MHD wave damping in hot coronal loops as probe of coronal heating" (CO).

"EAS2024", 1-5 Julio, Padova, Italia.

Beckman J.E., Font J., Epinat B., Dobbs C., Querejeta Pérez M. "Using gas kinematics to measure resonant structures in disc galaxies: the interaction of M51 with NGC 5195" (P).

García Lorenzo B. "Overview of the HARMONI integral field spectrograph for the ELT: Insights into Galaxy Evolution and AGN" (IT).

García-Lorenzo, B., Esparza-Arredondo, D. Acosta-Pulido, J., Castro-Almazán, J."Unveiling the central kpc of type I AGN host galaxies in seeing-limited IFS data" (P).

Gehan C. et al. (incluye Godoy-Rivera D.) "Magnetic activity of red giants: linking chromospheric indicators, oscillations amplitude, and tidal interactions" (CO).

Santos-Peral P., Sánchez-Blázquez P., Vazdekis A., Palicio P.A., Recio-Blanco A., Knowles A.T., Gaspar Gorostieta I.A., Allende Prieto C. "A catalogue of Mg, Ca and C abundances from the X-shooter Spectral Library: benchmark for improving the modelling of stellar population models" (P)

"COSPAR 2024", 13-21 de Julio, Bexco, Busan, Corea del Sur.

Nóbrega-Siverio, D., Moreno-Insertis, F., Galsgaard, K., Krikova, K., Rouppe van der Voort, L., Joshi, R., Madjarska, M. "Deciphering Solar Coronal Heating: Energizing Small-scale Loops through Surface Convection" (IT).

"Galaxies and diffuse gas in large-scale overdense environments at high redshift", 15-19 Julio, Sexten, Italia.

Pérez Martínez J.M. "Galaxy growth and dust-enshrouded star-formation activities in the Spiderweb protocluster at the Cosmic Noon" (IT).

"8th TESS/15th Kepler Asteroseismic Science Consortium Workshop", 15-19 Julio, Porto, Portugal.

Grossmann D. (incluye Beck P., Mathur S., Godoy-Rivera D.) "Asteroseismic grid-modelling of the binary system KIC 9163796" (CO).

Santos A. R. G. (incluye Godoy-Rivera D., Mathur S.) "Signature of the spin-down stalling in the stellar magnetic activity" (CO).

García R. A. et al. (incluye Mathur S., Godoy-Rivera D., Beck P.) "Massive characterisation of subgiants and red giants with TESS (Kepler and Gaia)" (CO).

Godoy-Rivera et al. "The breakdown of current gyrochronology as evidenced by old coeval stars" (P).

Godoy-Rivera et al. (incluye Mathur S., Beck P., Grossmann D.) "Kepler meets Gaia: Binary systems, color-magnitude diagram, and kinematic analysis" (P).

Mathur S. et al. (incluye Beck P., Godoy-Rivera D.) "Unveiling structures in the evolution of magnetic activity of solar-like stars" (P).

Santos A. R. G. et al. (incluye Mathur S., Godoy-Rivera D.) "Magnetic activity and its variability in the Sun and solar-like stars" (P).

"Small Galaxies, Cosmic Questions II", 29 Julio-2 Agosto, Durham, Reino Unido.

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

"TESS Science Conference III", 29 Julio - 2 Agosto, Cambridge, EEUU.

García R. A. et al. (incluye Mathur S., Godoy-Rivera D., Beck P.), "Measuring Rotation Periods and Stellar Oscillations in Red Giants with TESS Data" (CO).

"XXXII IAU General Assembly", 6-15 Agosto, Ciudad de Cabo, Sudáfrica

Alarcón P.S., Knapen J.H., Salo H., Comerón S., Román J., S., Watkins A. "Enhanced Spitzer Survey of Stellar Structure in Galaxies (ES4G): Disc galaxy extension and surface brightness profiles" (CO).

Audibert A. "A multi-wavelength view of AGN feedback impact on the central kiloparsecs of galaxies" (CO).

Audibert A. "Feedback from low-power radio jets on the gas reservoirs of quasars" (CO).

Audibert A. "Spatially resolved molecular line ratios in GATOS" (P).

Bertoldo-Coelho M. et al. (incluye Vazdekis A., Martín I, Falcón J.) "SMARTY: The mileS Moderate resolution neAr infRared sTellar librarY"

Deeg H.J., Alonso R. "Photometric Follow-up for the PLATO Space Mission - an Opportunity for Southern-Hemisphere Observers" (CO).

Esparza E. "JWST and cross-correlations: A faster alternative for atmospheric studies" (CO)

Gutiérrez C. "NRT: observing the transient Universe with the world's largest robotic telescope" (CO).

Iglesias-Navarro P., Knapen J. K., Huertas-Company M., Martín-Navarro I., Pernet E. "Deriving star formation histories of galaxies from spectra with simulation-based inference" (P).

Knapen J.H. "PhD-level training on the interface of astronomy and computer science" (CO).

Manteiga M., González-Santamaría I., Manchado A., Villaver E., Ulla Miguel A., Dafonte C. "A study of Post-AGB stars in the light of GAIA DR3 data" (CO).

Mathur S. "Observational Constraints from Helio- and Asteroseismology" (IT)

Newton O., Di Cintio A., Cardona-Barrero S., Libeskind N., Hoffman Y., Knebe A., Sorce J., Tempel E. "The undiscovered ultra-diffuse galaxies of the Local Group" (CO).

Tancredi G. et al. (incluye Alarcón M.S., Licandro J., Maudes A., Licandro M.) "A survey of comets in the vicinity of Jupiter" (CO).

Trujillo Bueno J and the CLASP2 team "Exploring the Magnetic Fields of the Upper Solar Chromosphere via Ultraviolet Spectropolarimetry"

"Solar MHD 2024", 2-5 Septiembre, La Laguna, Tenerife.

Asensio Ramos A. "Machine Learning in Observations" (CO).

Gómez M. M. "Wave conversion and heating in a two-fluid partially ionized atmosphere" (CO).

Koll Pistarini M. "Vortex flows in the solar atmosphere: Detection and heating mechanisms in 3D MHD numerical simulations" (CO).

"Celebrating 21 years of Astronomy at Warwick", 4-6 Septiembre, Warwick, Reino Unido.

Casares J. "Dynamical Black holes" (CO).

Navarro Umpierrez S. "Mini-HAWHs: A pilot survey designed to discover new quiescent BHs" (CO).

"European Solar Physics Meeting (ESPM-17)", 9-13 Septiembre, Torino, Italia.

Koll Pistarini M. "Vortex flows in the solar atmosphere: Detection and heating mechanisms in 3D MHD numerical simulations" (CO).

Nóbrega-Siverio, D. "Disentangling magnetic reconnection in the solar atmosphere" (IT).

"LSST@EUROPE6", 16-20 Septiembre, La Palma.

Poidevin F. "Superluminous Supernovae" (CO).

Sánchez-Alarcón P.M. "Complete Spitzer Survey of Stellar Structure in Galaxies (CS4G): Disc galaxy extension and surface brightness profiles" (CO).

Trujillo I. "LSST 10-year coadded images: a preview with the LIGHTS survey" (CO).

Golini G. "A new era in galaxy edge characterisation with ultra-deep imaging" (CO).

Licandro J. "The Critical Role of 10-m Class Telescope Follow-up in the LSST era: the case of the 10.4m

GTC telescope" (CO).

Pérez-Fournon I. "IAC projects on astrophysical transients and plans for the Vera Rubin LSST" (CO).

Pérez-Fournon I. "Teaching and learning astrophysical techniques with the IAC80, INT, Las Cumbres Observatory, and, soon, with the Vera Rubin LSST" (CO).

Iglesias Navarro P. "Inferring stellar population properties with simulation-based inference in the LSST era" (CO).

Sanchez Almeida "J. Using the low surface brightness galaxy imaging to be provided by LSST to constrain the nature of dark matter" (CO).

Lodieu N. "Metal-poor very low-mass stars and brown dwarfs in Rubin LSST and Euclid" (CO).

"SONG 2024 Science Meeting: 10 years of Science and the future with SONG", 18-20 Septiembre, La Laguna, Tenerife.

Beck P. "Tales of stellar & binary co-evolution, told by stellar oscillations from Kepler, TESS and PLATO" (CO).

Belmonte J.A. "Who were the Guanches? The scientific quest for the ancient Canarians" (IT).

Brauner M., Masseron T., García-Hernández D.A. "Chemical abundance inventory in phosphorus-rich stars" (CO).

Escorza A., Van Winckel H. "The eccentric progeny of AGB binaries: the 15-year Mercator monitoring program and its synergy with SONG" (CO).

Godoy-Rivera D. "Multiple Melodies: Probing Binary Coevality with SONG Asteroseismology" (CO).

Martínez M.J., del Pino T., Pallé P., Rossenberg A. "MUSOL. A unique laboratory for the global observations of the Sun" (IT).

Mathur S., Santos A.R.G.S., Claytor Z.R., García R.A. et al. "Tracing the magnetic activity evolution of solar-like stars with long photometric observations" (CO).

Muntean N., Beck P.G., Hanslmeier A. "Introducing an automated pipeline for the estimation of the period spacing and other seismic parameters of solar like oscillators" (CO).

Pallé P.L., Pimienta A. & IAC/SONG Teams "SONG node at Observatorio del Teide" (CO).

Simón-Díaz S. "Chorusing SONGs around the world: the new SONG scientific coordination structure" (IT).

Verret C., Eff-Darwich A., García R., Huertas M., Korzennik S., Mathur S. "Sequential neural posterior estimation for inversion of the rotation profile of solar-like stars" (CO).

Ye X., Allende Prieto C., Aguado D.S., Wu W. "Discovering metal-poor stars with Gaia data and characterizing it with the IDS spectrograph on the INT" (CO).

Zhang J, Shi J., Allende Prieto C., Wu H. "The NLTE effects of important elements based on high-resolution spectra" (CO).

"XIII Congresso Nazionale Oggetti Compatti", 22-26 Septiembre, Alghero, Italia.

Ambrifi A.: "Cold Accretion Disk Winds in Low Mass X-ray Binaries: Modeling Outflow Signatures" (CO)

"Framing the Big Picture of Galaxy Star Formation Quenching with JWST & Euclid", 30 Septiembre-4 Octubre, Madrid

D'Eugenio C. "JWST and ALMA in search for the elusive molecular gas component of high-z quiescent galaxies" (IT).

"Kick-Off Meeting UNDARK" 8-11 Octubre, La Laguna, Tenerife.

Poidevin F. "Superluminous supernovae and magnetars" (CO).

Rubiño Martín, J.A. "Science at IAC with QUIJOTE and TMS" (IT)

"Beyond the Edge of the Universe Latest results from the deepest astronomical surveys", 21-15 Octubre, Sintra, Portugal.

Marrero de la Rosa C. "Revealing the outskirts of Milky Way analogs" (P).

"Tenerife Meeting of the ERC Synergy Grant "The Whole Sun", 21-25 Octubre, Tenerife

Nóbrega-Siverio, D.; Cabello, I.; Bose, S.; Rouppe van der Voort, L.; Joshi, R.; Froment, C.; Henriques, V. "Small-scale flux emergence preceding a chain of energetic solar atmospheric events" (CO).

"From Protoclusters to First Mature Clusters", 28 Octubre-1 Noviembre, Suzhou, China.

D'Eugenio C. "Revealing the quiescent side of the Spiderweb Protocluster" (IT).

"CMB-CAL @ BICOCCA", 4-8 Noviembre, Milan, Italia.

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

"IAU Symposium 395: Stellar populations in the Milky Way and beyond", 17-22 Noviembre, Paraty, Brasil.

Brauner M. "Chemical abundance inventory in phosphorus-rich stars" (CO).

Queiroz A. "Dissecting the bulge, bar and inner Galaxy" (IT)

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

2024- CN

“2nd Iberian White Dwarfs Working Group Meeting”, 19-21 Febrero, Madrid.

Rodríguez-Gil P. “The elusive orbital period of the recurrent nova V2487 Oph revealed” (CO).

“Euclid Spain Meeting 2024”, 18-19 Abril 2024, CSIC-ICE, Barcelona.

Montes, M “The LSB Universe through the eyes of Euclid” (IT)

Montes, M.; Kluge, M.; Hatch, N.; Golden-Marx, J.; Gonzalez, A. H. et al. “A View of the Intracluster Light and Intracluster Globular Clusters of the Perseus Cluster” (CO)

Poidevin F, Pérez-Fournon I. “Supernovae and Transients” (CO)

“XV Día de Nuestra Ciencia 2024 (DNC2024)”, 7 Junio, La Laguna, Tenerife.

Alisa E. “Solving the paradox of sodium D1 line polarization” (CO).

Arriero Lopez A.M., Rubiño J.A., Cuttaira F., Terenzi L. “Thermal Design and modelling of the Tenerife Microwave Spectrometer: towards high precision spectral measurements of the microwave sky” (P).

Arroyo Apolonio J. M. “Chemo-dynamical characterization of the stellar population in the Sculptor dwarf galaxy” (CO).

Bejar V.J.S. “First results of the GTC Adaptive Optics commissioning” (CO).

Carnero A. “CosmicBrain Project at the IAC I: Biological Age Determination from the Bispectrum of Magnetic” (CO).

Contreras-Guerra P.D. “Globular Clusters Formation and Evolution in the Auriga Galaxy Simulations” (CO).

Delpueyo Español X. “ALISIO1: El primer satélite canario para observa la Tierra” (CO).

Fernández Alvar E. “The star formation histories of the kinematic thin and thick disks of the Milky Way” (CO).

Kitaura F. “COSMIC SIGNAL: thousands of parallel universes to understand the nature and evolution of our own” (CO).

Kuhn J. and the Liom team “LIOM’s vision: build strategic alliances with established academic and innovative technology companies around the world” (P).

Lacedelli G. “THIRSTEE: testing the water world hypothesis on small transiting exoplanets” (CO).

Le Pivert-Jolivet T. “Analysing the Solar System's Building Blocks: Remotely and in the Laboratory” (CO).

López-Oramas, A. “High-resolution early-time spectroscopy of core-collapse SNe from the Canary Island observatories” (CO):

Mallorquín Díaz M. “Masses and radii of planets transiting the closest and youngest star, AU Mic” (CO).

Nari N. "HD 20794: A bright G6V star observed with ESPRESSO and HARPS" (CO).

Navarro Umpiérrez S. "Mini-HAWHs: A pilot survey designed to discover new quiescent BHs" (CO).

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

Panizo Espinar G. "The omnipresent flux-dependent optical dip of the unique black hole transient Swift J1357.2-0933" (CO).

Pérez-Fournon I., Poidevin F. on behalf of the LensWatch collaboration "Lensed Type Ia Supernova "Encore" at $z = 2$: The First Instance of Two Multiply Imaged Supernovae in the Same Host Galaxy" (P).

Pérez Martínez J.M. "Caught in the Spiderweb" (CO).

Pinna F. "The formation of nuclear star clusters in massive star-forming spiral galaxies" (CO).

Ramos Almeida C. "Investigating the impact of nuclear activity on galaxy evolution with JWST" (CO).

Saavedra E.A., Armas Padilla M., Muñoz-Darias T. "A Hard X-ray Analysis of the Ultra-Compact X-ray Binary Candidates SLX 1744-299 and SLX 1744-300" (P).

Serra-Ricart M., Maudes A. "TTT project: A new way of doing Science" (P).

Socas-Navarro H. "Searching for Planet 9: The Messenger Hypothesis" (CO).

Streblyanska A., Barrena R. and the WEAVE Cluster Group "First observations of Galaxy Clusters with Weave" (P).

Thomas G. "Spectro-Translator: A new method to homogenize large Spectroscopic catalog" (CO).

Trelles J.C. "Unveiling the hidden magnetism of the quiet Sun along the solar cycle" (CO).

Wu W., Ye X. "Identifying Blue Horizontal Branch (BHB) stars from the low-resolution Gaia XP spectra" (P).

Zerjal M. "Fine structure and baby Jupiters in the Sigma Orionis cluster" (CO).

"XVI SEA 2024: Sociedad Española de Astronomía", 15-19 Julio, Granada.

Aguado D. "Astronomía y ciencia con la población reclusa de Madrid V-Soto del Real" (CO).

Alonso R. "An updated view of a young stellar triply eclipsing system" (CO).

Ambrifi A. "Cold Accretion Disc Winds in Black Hole Transients: the case of GX 339-4" (CO).

Angeloudi E. "Constraining in-situ vs. ex-situ stellar mass in nearby galaxies with Artificial Intelligence" (CO).

Arjona E. "The role of AGN feedback on the evolution of dwarf galaxies from cosmological simulations" (CO).

Arriero-López A. "Thermal design and modeling of the Tenerife Microwave Spectrometer: towards high precision spectral measurements of the microwave sky" (CO).

Arroyo Polonio J.M. "Chemo-dynamical characterization of the Sculptor dwarf Galaxy" (CO).

Asensio-Ramos A. "Multi-object multi-frame blind deconvolution with a spatially variant convolution neural

emulator" (CO).

Bañares Hernández A. "Confronting Dark Matter Models with Nearby Dwarf Irregular Galaxies" (CO).

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

Béjar V.J.S. "Results of the GTC Adaptive Optics commissioning and prospects for the first science" (CO)

Belmonte J.A. "Sueños de Arabia: Paisajes y celajes del Mundo Nabateo" (CO).

Benedetti J.P. "Don't judge a book by its cover: digging deeper into NGC 6868" (CO).

Brook C. "Constraining gas metal mixing strength in simulations using observations of the Milky Way's disc" (CO).

Cedrés B. "GLACE survey: OSIRIS/GTC tuneable imaging of the galaxy cluster ZwCl 0024.0+1652. The Mass– Metallicity relationship and the effect of the environment" (CO).

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

de Burgos A. "New evolutionary clues to understand the nature of massive stars" (CO).

Di Cintio A. "Low surface brightness galaxies in cosmological simulations" (CO).

Eftekhari E. "LIBERTY Survey: extragalactic globular clusters near-infrared spectroscopy" (CO).

Esparza Arredondo D. "Studying the dusty-gas properties of AGN using a simultaneous fit of mid-infrared and X-ray data" (CO).

Esparza Borges E. "WST and cross-correlation techniques: A faster alternative for exoplanet atmospheric studies" (CO).

Esteban C. "The radial abundance gradients in the outer disc of the Andromeda Galaxy." (CO).

Falcón Barroso J. "The WEAVE-Apertif survey" (CO).

Ferré-Mateu A. "Ultra diffuse galaxies, simple LSB dwarfs or badly behaved ones?" (CO)

Frías García-Lago, F. "Cosmic web effective lensing modelling" (CO)

Galán-Diéguez D., Peláez-Torres A., Arévalo M.J., Ulla-Miguel A., Manteiga-Outeiro M., Manchado-Torres A., Dafonte-Vázquez C., González-Santamaría I. "A study on spectroscopy and photometry for the AM CVn candidate ASASSN-14mv" (P)

Galán-Diéguez D., Berlanas S.R., Herrero A. "Unraveling post-binary evolutionary channels in Cygnus OB2 using WEAVE" (P)

Galán-Diéguez D. "Very first approach to the lack of fast rotators in Cygnus OB2" (CO)

García-Hernández D.A. "Interdisciplinary networking as a powerful tool to understand the astrochemistry of star and planet formation" (CO).

García-Lorenzo B. "Unveiling the central kpc of Type I AGN host galaxies in Seeing-Limited IFS data" (CO).

García-Rojas, J. "WEAVE Science verification LIFU data of Galactic planetary nebulae" (CO)

García-Rojas, J. "DESIREd: A database of high-quality spectra to study fundamental problems in ionized nebulae." (P)

Garzón F. "New EMIR performances after detector upgrade" (CO).

Golini G. "Advanced data reduction techniques for low surface brightness" (CO).

Guerra Arencibia S. "The mysterious globular cluster population of NGC5846-UDG1 (MATLAS-2019)" (CO).

Hernández-Monteagudo C. "Exploring and exploiting the Cosmological Potential of Angular Redshift Fluctuations" (CO).

Huertas-Roldán T. "New radio detections of molecular and atomic emission towards C-rich planetary nebulae" (CO).

Koll Pistarini, M. "Vortex flows in the solar atmosphere: Detection and heating mechanisms in 3D MHD numerical simulations" (CO).

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

Mallorquín Diaz M. "Mass and radius determination of young planets and the implications for their gas envelope evolution" (CO).

Manchado A. "HAC-like grains as possible carriers of UIR emission in fullerene PNe" (CO).

Marrero de la Rosa C. "Analysis of Low-Surface Brightness features in the outskirts of massive spiral galaxies." (CO).

Martínez-Sebastián C. "He-rich O-type stars as tracers of past binary interaction" (CO).

Molina E. "A gamma-ray view of microquasar outbursts" (CO).

Nari N. "HD 20794: A bright G6V star observed with ESPRESSO and HARPS" (CO).

Nespral D. "El observatorio astronómico del Teide, presente y futuro" (XCO).

Orte García, M. "On the chlorine abundance in HII regions" (CO)

Pérez-Fournon I. "Observing the death of stars and the associated supernova explosions in real time" (CO).

Pinna F. "The GECKOS Survey: Turning galaxy evolution on its side with highly resolved stellar population measurements of edge-on galaxies" (CO).

Rubiño Martín A. A. "The QUIJOTE experiment: status, latest results and future plans" (CO).

Sánchez Almeida J. "Constraining the shape of the dark matter halo of very low surface brightness galaxies only from imaging" (CO).

Sarrato-Alós J. "Inferring the dark matter distribution in galaxies with machine learning methods" (CO).

Sharbaf Z. "Ultra-deep imaging of M33: exploring its stellar halo with broad band imaging for the first time" (CO).

Simón-Díaz S- "The massive OB star component of the WEAVESCIP survey" (CO).

Suárez Mascareño, A. "Two temperate Earth-mass planets orbiting the nearby star GJ 1002" (P)

Tinaut Ruano F. "Exploiting the near-ultraviolet as a diagnostic tool for the composition of primitive material in the Solar System" (CO).

Trelles-Arjona J.C. "Quiet Sun magnetism from ViSP data Multiline Inversions around 630.1 nm" (CO).

Trujillo I. "Low surface brightness: present and future" (CO).

Vazdekis A. "Biblioteca estelar espectral de WEAVE" (CO).

"III Congreso Internacional de Jóvenes por la Investigación", 15 Noviembre, La Laguna, Tenerife.

Portero-Rodríguez D., García-Vázquez H., Díaz J.J., Rodríguez L.F., Aguerri J.A.L. "Applications of integrated photonics in astrophysical instrumentation" (CO).

COMUNICACIONES CORTAS, ARTICULOS EN REVISTAS INTERNACIONALES SIN ÁRBITRO

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

2024-CR

Mainieri, V., Anderson R. I., Brinchmann, J. et al (Incluye **Battaglia G., Herrero A.**) “The Wide-field Spectroscopic Telescope (WST). Science White Paper” [2024arXiv240305398M](#)

Fijma, Stefanie et al. (Incluye **Armas Padilla M, Muñoz Darias T.**) “A Disc Wind Where You Least Expect It: The Outflow in the Short-period X-ray Binary UW CrB” *AAS/High Energy Astrophysics Division* [2024HEAD...2150106F](#)

Borowski, Eric et al. (Incluye **Shahbaz T**) “Rapid multiwavelength variability reveals jet emission in the black hole binary V404 Cygni in quiescence” *AAS/High Energy Astrophysics Division* [2024HEAD...2130105B](#)

Belkin, S. et al. (incluye **Dhillon, V.S. Pallé E., Mata-Sánchez D., Rana J.**) “GRB 230911A: The First Discovery of a Fermi GRB Optical Counterpart with the Gravitational-wave Optical Transient Observer (GOTO)” [2024RNAAS...8....6B](#)

Taibi, S.; Roth, M. M.; **Battaglia, G.**; Kamann, S. “An Enigmatic High Excitation Nebula in IC 1613 Dwarf Galaxy” [2024RNAAS...8...45T](#)

Montes, Mireia; Sánchez Almeida, Jorge; Trujillo, Ignacio “Deep HST Imaging Favors the Bulgeless Edge-on Galaxy Explanation for the Hypothetical Stellar Wake Created by a Runaway Supermassive Black Hole” [2024RNAAS...8..150M](#)

Ali, Abduhla; Diercke, Andrea; Hofmeister, Stefan; **Kuckein, Christoph**; Savin, Daniel Wolf; Hahn, Michael “Evaluation of a Magnetic Field Inversion Method Using Only Stokes I” [2024RNAAS...8...15A](#)

Blanton, Lilly; Hillwig, Todd; **Jones, David** “Modeling Close Binary Systems Within Planetary Nebulae” [2024AAS...24311307B](#)

Wood, Hunter; Hillwig, Todd; Reindl, Nicole; **Jones, David** “Modeling Binary Systems Containing the Hot White Dwarfs WD1136+667 and Gaia-DR2-1350” [2024AAS...24336704W](#)

Nidever, David et al. (incluye **Allende-Prieto C.**) “First JWST Results Find No Alpha-Bimodality in M31” [2024AAS...24342805N](#)

Hejazi, Neda; Crossfield, Ian J. M.; Souto, Diogo; **Pavlenko, Yakiv**; Nordlander, Thomas; Cunha, Katia; Marfil, Emilio; Smith, Verne V.; Coria, David R. “Elemental Abundances of Planet-Host Cool Dwarfs: Clues on Planet Formation and Evolution” [2024AAS...24343201H](#)

Pinamonti, Matteo; Barbato, Domenico; Ruggieri, Alessandro; Sozzetti, Alessandro; Bonomo, Aldo; **Nari Nicola**; Desidera, Silvano “Observational evidence of different formation mechanisms of Solar System-type architectures across spectral types” [2024ESS.....560801P](#)

Watanabe, Noriharu; Narita, Norio; Hori, Yasunori; **Palle Bago, Enric** “Nodal Precession of a Hot Jupiter Transiting the Edge of a Late A-Type Star TOI-1518” [2024ESS.....561705W](#)

Gilbert, Emily et al. (Incluye **Suárez Mascareño A.**) “Measuring the Masses of the TOI-700 Planets with ESPRESSO” [2024ESS.....560107G](#)

Greklek-McKeon, Michael et al. (**Parviainen H.**) “Finding Water Worlds with Transit Timing Variations” [2024ESS.....560502G](#)

Lendl, Monika et al. (**Parviainen H.**) “3.5 years of observing exoplanet day sides with CHEOPS” [2024ESS....510204L](#)

Perotto, L. et al. (incluye **Barrena R.**) “The NIKA2 Sunyaev-Zeldovich Large Program. Sample and upcoming product public release” [2024EPJWC.29300040P](#)

Mennella, A. et al. (incluye **Génova-Santos R., Rubiño-Martin J.A.**) “The European Low Frequency Survey. Observing the radio sky to understand the beginning of the Universe” [2024EPJWC.29300031M](#)

Sánchez-Portal, M. et al. (incluye **Cepa J., González Otero M., Padilla-torres C.P.**) “IRAM 30-meter millimeter follow-up of deep OSIRIS-GTC optical surveys” [2024EPJWC.29300047S](#)

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2024 - PN

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