

# PUBLICACIONES EN REVISTAS INTERNACIONALES CON ÁRBITRO

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Coti Zelati, F. *et al.* (incluye a Dhillon, V. S.; Vincentelli, F.)[2024A&A...690A.220C](#)
- 573.- **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](#)
- 574.- **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](#)
- 575.- **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](#)
- 576.- **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](#)
- 577.- **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](#)
- 578.- **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](#)
- 579.- **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](#)
- 580.- **The GAPS Programme at TNG: LIX. Characterisation study of the  $\sim$ 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](#)

- 581.- 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](#)
- 582.- The KIS Science Data Centre: Concept, Data, Data Access, and Analysis Tools**  
Caligari, Peter *et al.* (incluye a Collados, Manuel) [2024SoPh...299..143C](#)
- 583.- 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](#)
- 584.- 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](#)
- 585.- 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](#)
- 586.- 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](#)
- 587.- 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](#)
- 588.- The PAU survey: photometric redshift estimation in deep wide fields**  
Navarro-Gironés, D. *et al.* (incluye a Siudek, M.) [2024MNRAS.534.1504N](#)
- 589.- 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](#)
- 590.- 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](#)
- 591.- 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](#)
- 592.- 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](#)
- 593.- 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.; García-Álvarez, D. [2024A&A...690A.173B](#)
- 594.- 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](#)
- 595.- 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](#)

- 596.- **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.; Mení, P.; Muñoz Torres, S.; Orell-Miquel, J.; Sánchez-Benavente, M.; Sosa-Guillén, P.)[2024A&A...690A..62P](#)
- 597.- **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](#)
- 598.- **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](#)
- 599.- **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](#)
- 600.- **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](#)
- 601.- **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](#)
- 602.- **The gravitational lensing imprints of DES Y3 superstructures on the CMB: a matched filtering approach**  
Demirbozan, U. *et al.* (incluye a Carnero Rosell, A.; da Costa, L. N.; Ogando, R. L. C.)[2024MNRAS.534.2328D](#)
- 603.- **TOI 762 A b and TIC 46432937 b: Two Giant Planets Transiting M-dwarf Stars**  
Hartman, Joel D. *et al.* (incluye a Barkaoui, Khalid)[2024AJ....168..202H](#)
- 604.- **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](#)
- 605.- **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](#)
- 606.- **A very personal semblance of archaeoastronomy pioneer Professor Michael Hoskin, colleague, mentor and friend**  
Belmonte, Juan Antonio [10.24215/26840162e011](#)
- 607.- **Astronomy and Culture on the Camino de Santiago**  
Urrutia-Aparicio, M.; González-García, A.C.; Belmonte, J.A. [10.24215/26840162e003](#)
- 608.- **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](#)



## 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.

**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.

## **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

### **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.

# 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)

#### **"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 $\alpha$  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).

Suntinger 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).

Michlmayer S., Beck P.G., García R.A., Jiménez A. "The effects of Solar Activity cycles on the asteroseismic parameters from 25 years of observations with GOLF and VIRGO on the ESA SOHO space telescope" (P.)

Marx Y., Beck P.G. "Red giant binaries as seen from TESS and Kepler" (P).

**"Cosmic Threads: Interlinking the Stellar Initial Mass Function from Star-birth to Galaxies", 11-15 Marzo, Sexten, Italia.**

Vazdekis A. "IMF constrains from stellar population studies in varying spectral ranges" (IT)

**"Cosmology in the Alps (SKACH)", 18-22 Marzo, Les Diablerets, Suiza.**

Dabhade P. "The spectral index-flux density relation for extragalactic radio sources selected at metre and decametre wavelengths" (CO).

**"Abundance Gradients in the Local Universe (ADONIS)", 25 Marzo-19 Abril, Garching (Munich), Alemania**

Esteban, C. "O/H variations in the discs of the Milky Way, M31 and the Magellanic Clouds from spectra of ionized nebulae" (IT)

Tantalo M. "Identification and characterization of AGB stars in NGC 6822" (CO).

**"European Solar Physics Online Seminars (ESPOS)", 4 Abril (Online)**

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).

**"SBI for galaxy evolution", 9-12 Abril, Bristol, Reino Unido.**

Iglesias Navarro P. "Deriving SFHs of galaxies from spectra with SBI" (CO).

**"A new dawn of dwarf galaxies research", 8-13 Abril, Leiden. Países Bajos.**

Battaglia G. "Structure and sub-structures of Local Group dwarf galaxies" (IT).

Ferré-Mateu A. "Dwarf galaxies at the extremes" (IT).

**"Extreme galaxies in their extreme environments at extremely early epochs", 29 Abril-3 Mayo, Reykjavik, Islandia.**

Ferré-Mateu A. "Do compact galaxies host extreme black holes?" (CO).

**“SKA Pathfinder Radio Continuum Survey (SPARCS)-XII: Pushing toward the final frontier”, 6-10 Mayo, Bolonia, Italia**

Dabhade P. "Decoding DDRG growth and environment with the largest sample from LoTSS" (CO).

**"IV Meeting on Chemical Abundances in Gaseous Nebulae", 6-10 Mayo, Sao José dos Campos, Brasil.**

García-Rojas, J. "MUSE observations of high abundance discrepancy planetary nebulae: when abundance discrepancies turn to be abundance contrasts between two different gas phases" (CO)

Esteban, C. "Evidences of density variations in HII regions and their effects on metallicity determinations" (CO)

**“The Cosmic Evolution Early Release Science Survey (CEERS)”, 13-15 Mayo, Madrid.**

Iglesias Navarro P. "Inferring stellar population properties using simulation-based inference in resolved galaxies from HST+JWST photometry" (CO).

**“Star formation across cosmic scales: machine learning insights and applications”, 13-17 Mayo, Budapest, Hungria.**

Huertas M. "Deriving Star Formation Histories of Galaxies from Spectra with Simulation-based Inference"(CO).

**"ESP2024: PLATO Planetary Systems – Formation to Observed Architectures", 14-16 Mayo 2024, Catania, Italia.**

Deeg, H.J. "Circumbinary planet populations: Status and expectations for PLATO" (CO)

**“LOFAR Family Meeting”, 3-7 Junio, Leiden, Países Bajos.**

Dabhade P. "Probing the Evolution of Radio Quasar Morphologies Across Cosmic Time with LoTSS" (CO).

**“244th Meeting of the AAS”, 9-13 Junio, Madison (EEUU).**

Anguiano B., et al. (Incluye Allende Prieto C.) "A Systematic Search for and Characterization of White Dwarf Binaries Across the H-R Diagram" (CO).

**"Exoplanets 5", 16-21 Junio, Leiden, Holanda**

Suárez Mascareño, A. "NIRPS takes a look at Proxima" (P)

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

Suárez Mascareño, A. "TESS and ESPRESSO discover a super-Earth and a mini-Neptune orbiting the K-dwarf TOI-238" (P)

**"First Structures in the Universe 2024", 24-28 Junio, Paris, Francia**

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

### **"11th Coronal Loops Workshop", 25-28 Junio, La Laguna, Tenerife.**

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.**

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)

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).

### **"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).

### **"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).

### **"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).



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

## 2024- CN

**“2<sup>nd</sup> 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.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).

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

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

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

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

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

# 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 Darías 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](#)

de Andres, Daniel et al. (incluye **Ferragamo, Antonio**) "Generating galaxy clusters mass density maps from mock multiview images via deep learning" [2024EPJWC.29300013D](#)

Muñoz-Echeverría, M. et al. (incluye **Ferragamo A.**) "Estimation of the hydrostatic-to-lensing mass bias from resolved cluster masses" [2024EPJWC.29300033M](#)

**Fasano, Alessandro** et al. "CONCERTO: Instrument and status" [2024EPJWC.29300018F](#)

**Ferragamo, A.** et al. "A machine learning method to infer clusters of galaxies mass radial profiles from mock Sunyaev-Zel'dovich maps with The Three Hundred clusters" [2024EPJWC.29300019F](#)

Paliwal, A. et al. (incluye **Ferragamo, A.**) "3D scaling laws and projection effects in The300-NIKA2 Sunyaev-Zeldovich Large Program Twin Samples" [2024EPJWC.29300037P](#)

**Fasano, A.** et al., "CONCERTO: Instrument model of Fourier transform spectroscopy, white-noise components" Proceeding of the SPIE, 1310200 (2024). [2024SPIE13102E..00F](#)

Tsuji M. et al., (incluye **Fasano, A. Génova-Santos, R., Rebolo, R., Rubino-Martin, J.A.** ), " Commissioning the CMB polarization telescope GroundBIRD with the full set of detectors", Proceedings of the SPIE, 1310205 (2024). [2024SPIE13102E..05T](#)

**ARTICULOS EN REVISTAS NACIONALES**  
**(Publications in Spanish Journals).**

**2024 - PN**

# TESIS DOCTORALES (PhD Theses)

## 2024-T

**Speranza, Giovanna** (23/02/24) "Incidence and energetics of AGN winds in the local Universe"

**García Broock, Elena** (29/02/24) "Improvement of farside activity detection with machine learning techniques and applications".

**Sholz Díaz, Laura E.** (09/05/24) "Probing the baryonic cycle of galaxies through stellar population analyses".

**Tinaut Ruano, Fernando** (11/06/24) "Exploiting the near-ultraviolet as a diagnostic tool for the composition of primitive material in the Solar System".

**Martínez García, Alberto Manuel** (14/06/24) "Internal kinematics of the Milky Way satellites".

**González Otero, Mauro** (28/06/24) "The Lockman-SpReSO project. Optical properties of far-infrared selected galaxies".

**Perdomo García, Andrea** (12/07/24) "Three-dimensional radiative MHD simulations of near-surface convection in main sequence cool stars".

**Romero Gómez, Jorge** (13/09/24) "Spectroscopic properties of dwarf galaxies in nearby cluster".

**Terol Calvo J.** (30/09/24) "Dark Matter and Neutrinos at the crossroad of Astrophysics, Cosmology and Particle Physics".

**de Burgos Sierra, Abel** (04/10/24) ""On the evolutionary nature of massive B-type supergiants: a modern empirical reappraisal using data from IACOB, Gaia and TESS".

**Orell Miquel, Jaume** (18/10/24) "High-resolution spectroscopy of exoplanets in the era of TESS".