

# PUBLICACIONES EN REVISTAS INTERNACIONALES CON ÁRBITRO

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- 2.- **A 1.55 R<sub>⊕</sub> habitable-zone planet hosted by TOI-715, an M4 star near the ecliptic South Pole**  
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- 3.- **A bright triple transient that vanished within 50 min**  
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- 4.- **A Forecast of the Sensitivity of the DALI Experiment to Galactic Axion Dark Matter**  
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- 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**  
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- 8.- **AGN feedback and star formation in the peculiar galaxy NGC 232: insights from VLT-MUSE observations**  
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- 9.- **An almost dark galaxy with the mass of the Small Magellanic Cloud**  
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- 736.- Revealing the Quiescent Galaxy Population in the Spiderweb Protocluster at  $z = 2.16$  with Deep HST/WFC3 Slitless Spectroscopy**  
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- 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.**  
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- 750.- **A very personal semblance of archaeoastronomy pioneer Professor Michael Hoskin, colleague, mentor and friend**  
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- 751.- **Astronomy and Culture on the Camino de Santiago**  
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- 752.- **Symbiotic stars, weird novae, and related embarrassing binaries**  
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# 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.

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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 $\alpha$  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).

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).

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).

**"SPIE Optical System Design", 7- 11 Abril 2024, Strasbourg, Francia.**

Cagigas, M. A.; García-Lorenzo, B.; Alonso, A. "HARMONI at ELT: pre-optics optical design at FDR" 2024SPIE13019E..1SC

Canto-Caño V., Delgado-Hernández J., Ganzález-Carretero E., López-López R., Mato-Martínez A., Moreno-Arce H., Vega-Moreno A., Reyes García-Talavera M., Patrón-Recio J., Acosta-Pulido J.A., Béjar V.S., Cagigas M. "GRANCAIN: the first light infrared camera for GTC/O: end-to-end optical design, integration, and verification" 2024SPIE13024E..0KC

Insausti, M.; Rasilla, J. L.; Gracia, F.; Cagigas, M. A. "Optical coating facilities at the Instituto de Astrofísica de Canarias" 2024SPIE13020E..0VI

**"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).

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

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

**"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).

**"CLUES for Local Universe Exploration and Study", 10-14 Junio, Warsaw, Polonia.**

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

Arjona E. "A new galaxy size definition across different state-of-art hydrodynamical simulations" (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)

**"SPIE Astronomical Telescopes + Instrumentation", 16-22 Junio, Yokohama, Japon.**

Artigau, Étienne et al. (incluye Rebolo R., González Hernández, J., Gracia Temich, F., Nari, N., Passegger, V., Rasilla, J.L., Stefanov, A.K., Suárez Mascareño, A.) "NIRPS first light and early science: breaking the 1 m/s RV precision barrier at infrared wavelengths" 2024SPIE13096E..0CA

Belío-Asín, Marta et al. (incluye Pérez-García, A., Sánchez-Capuchino, J., Bonaque-González, S., Soria, E., Feijóo, N., Ferro, I., Ruiz de Galarreta, C., Cózar-Castellano, J., Núñez, M., Collados, M., Barreto, M.) "An overview of the preliminary optical design of the European Solar Telescope (EST)" 2024SPIE13094E..2GB

**Belio-Asín, Marta "The European Solar Telescope: Optical and Opto-mechanical design and analysis at the Preliminary Design Phase" (Poster)**

Bento, João.; Heffernan, David; Quintana Rivero, César; Prieto Antúnez, Alberto; Garner, Adam; Copley, David; Fernández-Valdivia, J. J.; León Gil, Javier; Barrera Martín, Josué; Torres, Miguel "A modern DevOps and serverless architecture for the New Robotic Telescope software infrastructure" 2024SPIE13101E..1GB

Bonaccini Calia D. et al. (incluye Reyes García-Talavera, M.) "Progress and first experimental results of the ALASCA LGS-AO facility for satellite communications", Paper No.13097-168, Proc. SPIE 13097, Adaptive Optics Systems IX, (2024).

**Canto-Caño, Verónica "CSOA: How to transform an Optical Design into a Manufacturable Optical System" (Poster)**

Chazelas, Bruno et al. (Amate Plasencia, M., Peñate Castro, J., Vega-Moreno, A., Tenegi, F., Simoes, R., González-Hernández, J.) "ANDES, the high-resolution spectrograph for the ELT: RIZ spectrograph preliminary design" 2024SPIE13096E..4JC

Chhabra, Sorabh et al. (incluye Garzón F.) "Spectrographs for the Asgard/BIFROST beam combiner for the VLTI: optical and optomechanical design and first lab results" 2024SPIE13095E..2DC

Cifuentes, Alejo et al. (incluye Acciari, V. A., Colombo, E.) "Performance of MAGIC stellar intensity interferometer and expansion to MAGIC + CTAO-LST1 stellar intensity interferometer" 2024SPIE13095E..27C

Cogato, F. et al. (incluye Colodro-Conde, C., Diaz, J., Tubio, O.) "Euclid commissioning results: the near infrared spectrometer and photometer (NISF) signal detection chain" 2024SPIE13092E..3GC

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Conversi, L.; Licandro, J.; Delbo, M.; Fitzsimmons, A.; Muinonen, K.; Müller, T.; Popescu, M.; Tanga, P.; Moissl, R. "NEOMIR: ESA's space-based infrared mission for NEO detection and early warning" 2024SPIE13092E..2HC

Copley, David et al. (incluye Goded A., Gutiérrez C.M., Prieto, A., Puga, M., Quintana, C., Rebolo, R.) "New Robotic Telescope system progress towards critical design review" 2024SPIE13094E..3WC

Corradi, Romano L. M.; Cabrera-Lavers, Antonio; Lombardi, Gianluca "The instrumentation plan of the 10.4m GTC telescope" 2024SPIE13096E..0HC

Delgado-García, Graciela; Joven-Álvarez, Enrique; Rodríguez-Ramos, Luis F.; Menéndez-Mendoza, Saúl; Viera-Curbelo, Teodora; Martín, Yolanda; Chulani, Haresh M.; Alonso, Ángel; García-Lorenzo, Begoña.; Thatte, Niranjana "HARMONI at ELT: electronic cabinets design" 2024SPIE13096E..4XD

Di Marcantonio, P. et al. (incluye Amate M.) "ANDES, the high-resolution spectrograph for the ELT: project management for the preliminary design phase" 2024SPIE13099E..1WD

Dyer, Martin J. et al. (incluye Pallé E.) "The Gravitational-wave Optical Transient Observer (GOTO)" 2024SPIE13094E..1XD

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Garzón, Francisco; Fernández-Acosta, Sergio; Hammersley, Peter; Joven, Enrique; Russo, Anthony; Rosich, Josefina "Detector upgrade in EMIR@GTC: on-sky performances" 2024SPIE13096E..27G

Ghigna, T. et al. (incluye Díaz García, J. J., Génova-Santos, R. T., Gimeno-Amo, C., González González, R., Rubino-Martín, J.A., Vielva, P.) "The LiteBIRD mission to explore cosmic inflation" 2024SPIE13092E..28G

Glauser, Adrian M. et al. (Pallé E.) "The Large Interferometer For Exoplanets (LIFE): a space mission for mid-infrared nulling interferometry" 2024SPIE13095E..1DG

González-Carretero, Eduardo D. et al. (incluye Canto-Caño, V., Delgado-Hernández, J.M., Moreno-Martín, A.F., Simoes, R., Reyes García-Talavera, M., Acosta-Pulido, J.A., Béjar, Víctor J. S., Tenegi-Sanginés, F., Vega-Moreno, A., Mato, A., López-López, R., Patrón-Recio, J., Moreno-Arce, H.) "Design and manufacture of athermalized optomechanical mounts for GRANCAIN, the infrared imaging instrument for GTC's adaptive optics" 2024SPIE13100E..6VG

González Carretero E.D., Tubío-Araújo O., Reyes García-Talavera M., Simoes R., Béjar V.J.S., Patrón-Recio J., Tenegi-Sanginés F., Montilla I., Marco de La Rosa J., Rosich-Minguell J., Luis-Aznar M., Puga-Antolín M., López-López R., Acosta-Pulido J.A. "Transport, handling, and integration of the adaptive optics system for GTC: from the laboratory to the telescope" 2024SPIE13096E..96G

Hernández, Elvio; Hernández, Alberto; Alonso, Ángel; García-Lorenzo, Begoña.; Thatte, Niranjana "HARMONI at ELT: athermal toroidal mirror mount for HARMONI pre-optics" 2024SPIE13100E..34H

Hernández-Cabrera, Juan F.; de Miguel, Javier; Hernández-Suárez, Elvio; Joven-Álvarez, Enrique; Lorenzo-Hernández, Haroldo; Otani, Chiko; Rubiño-Martín, José Alberto "Free space experimental characterization of a multilayer Fabry-Pérot resonator for DALI" 2024SPIE13102E..11H

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Hernández-González, Alberto; Hernández Suárez, Elvio; Montoya Martínez, Luz Maria; Cagigas, Miguel A.; Luján González, Alejandro Antonio; García-Lorenzo, Begoña.; Alonso-Sánchez, Ángel; Thatte, Niranjana. "HARMONI at ELT: verification tests of opto-mechanical mounts for HARMONI preoptics in cryogenic environment" 2024SPIE13100E..52H

Insausti, M.; Rasilla, J. L.; Gracia, F. "Optical coating facilities at the Instituto de Astrofísica de Canarias" 2024SPIE13100E..23I

Kubik, B. et al. (incluye Colodro-Conde, C., Tubío, O.) "Performance of the image persistence model for Euclid infrared detectors" 2024SPIE13103E..15K

León-Gil, J.; Rodríguez-Linares, Nicolás.; Belío-Asin, M.; Gonzalez-Cava, J. M.; Merlos-García, F.; Fuentes-Morales, G.; Mato, Á.; Soler, M.; Nuñez-Cagigal, M.; Barreto, M. "Active optics control and its integration with the adaptive optics in the European Solar Telescope (EST)" 2024SPIE13101E..44L

Lombardi, G.; Fildes, G.; Alrefay, T. Y.; Almalik, N.; Cuevas, O. "Preliminary characterization of the AIUla Manara astronomical site for the 4-m telescope project in the Kingdom of Saudi Arabia" 2024SPIE13094E..59L

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Marco de la Rosa, J. et al. (incluye Rosich J., Tubío, O., Patrón, J., Montilla, I., López, R. L., Puga, M., Simoes, R., González, E., Luis, M., Reyes García-Talavera, M., Béjar, V.J S.) "GTCAO low-frequency tip-tilt offload to M2" 2024SPIE13097E..7SM

**Marcos, Ana María "Optical metrology in the fabrication process" (P).**

Marconi, A. et al. (incluye Allende Prieto, C., Amate, M., González-Hernández, J. I., Gracia Témich, F., Pallé, E., Peñate Castro, J., Rebolo, R., Simoes, R., Suárez Mascareño, A., Tenegi-Sanginés, F., Vega-Moreno, A.) "ANDES, the high resolution spectrograph for the ELT: science goals, project overview, and future developments" 2024SPIE13096E..13M

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Martínez Rey N. et al. (incluye Reyes García-Talavera M.) “CaNaPy: comparing predicted performance and on-sky results for the natural guide star mode”, Paper No.13097-205, Proc. SPIE 13097, Adaptive Optics Systems IX, (2024).

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Mennella, Aniello et al. (Génova-Santos, Ricardo T., Hoyland, R., Rubiño-Martín, J.A.) “The European low-frequency survey on the Simons Array” 2024SPIE13102E..25M

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Santos Diaz, P. et al. (incluye Vega-Moreno, A., Peñate Castro, J., Tenegi, F.) "ANDES, the high-resolution spectrograph for the ELT: RIZ & UVB spectrographs' preliminary design, analysis, and integration of the vacuum vessel and thermal enclosure" 2024SPIE13096E..4KS

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Soler, M.; Vogiatzis, K.; Cózar-Castellano, J.; Bonaque-González, S.; Belio, M.; Núñez, M.; Barreto, M. "Local seeing analysis for the European Solar Telescope" 2024SPIE13094E..5FS

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Thatte, N., Melotte, D., Neichel, B., et al. (incluye Alonso Sanchez, A., Battaglia, G., Cagigas, M., Castro-Almazán, J.A., Chulani, H., Delgado-García, G., Fernandez Izquierdo, P., Esparza-Arredondo, D., García-Lorenzo, B., Hernández González, A., Hernández Suárez, E., Licandro, J., Joven, E., López López, R., Lujan Gonzalez, A., Martín Hernando, Y., Martín-Navarro, I., Mediavilla, E., Menéndez Mendoza, S., Montoya Martínez, L.M., Peñate Castro, J., Murgas, F., Pallé E., Pérez, A., Rasilla, J.L., Rebolo R., Rodríguez, H., Rodríguez Ramos, L.F., Béjar V.J.S., Shahbaz, T., Vega Moreno, A., Viera, T.) "HARMONI at ELT: project status and instrument overview" 2024SPIE13096E..14T

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" 2024SPIE13102E..05T

Urrutia, Ander; Sanquirce, Rubén.; Cózar-Castellano, Juan; Soler, Mahy; Murga, Gaizka; Mato, Angel; Barreto, Mary; Núñez Cagigal, Miguel "Wind tunnel test for the preliminary design of the European Solar Telescope" 2024SPIE13094E..5GU

Viera-Curbelo, T., Rodríguez-Ramos, L.F., Vega-Moreno, A., Chulani, H., Murray, J., García-Lorenzo, B. "Instrument rotators. Performance using different electromechanical systems" Proc. SPIE, 13100, 1310016. doi: 10.1117/12.3018420. 2024

Watson, Alan M. et al. (incluye Acosta-Pulido, J. A., Aguiar, M., Béjar, V.J.S., Díaz García, J.J., Garzón F., Joven Álvarez, E., Matilla Blanco, E., Patrón Recio, J., Prieto, A.) "FRIDA: diffraction-limited imaging and integral-field spectroscopy for the GTC" 2024SPIE13096E..1YW

Weber, Michael et al. (incluye Amate, M., Peñate Castro, J., Vega-Moreno, A., Luís Simoes, R., González-Hernández, J.I.) "ANDES, the high-resolution spectrograph for the ELT: UVB spectrograph preliminary design" 2024SPIE13096E..4AW

Zhou, Ye et al. (incluye Lodieu, N., Rebolo, R.) "Small-ELF Telescope opto-mechanical system: progress on design, manufacturing, and tensegrity prototyping" 2024SPIE13094E..3RZ

### **"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).

D'Eugenio C. "Challenges and bright avenues for probing the fate of cold gas in high-z quiescent galaxies" (CO).

### **"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.**

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

**“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.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.**

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# COMUNICACIONES CORTAS, ARTICULOS EN REVISTAS INTERNACIONALES SIN ÁRBITRO

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**2024 - PN**

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## 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".

**Vicente Arevalo, Andrés** (20/11/24) "3D Inversions of Chromospheric Structure".

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