

PUBLICACIONES EN REVISTAS INTERNACIONALES CON ÁRBITRO

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- 3.- **A Forecast of the Sensitivity of the DALI Experiment to Galactic Axion Dark Matter**
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- 676.- **The Cosmological Optical Convergence: Extragalactic Background Light from TeV Gamma Rays**
Gréaux, Lucas; Biteau, Jonathan; Nieves Rosillo, Mireia [2024ApJ...975L..18G](#)
- 677.- **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](#)
- 678.- **The Dark Energy Survey Supernova Program: Cosmological Analysis and Systematic Uncertainties**
Vincenzi, M. *et al.* (incluye a Carnero Rosell, A.) [2024ApJ...975...86V](#)
- 679.- **The Dark Energy Survey Supernova Program: Light Curves and 5 Yr Data Release**
Sánchez, B. O. *et al.* (incluye a Carnero Rosell, A.) [2024ApJ...975....5S](#)
- 680.- **The DESI Early Data Release white dwarf catalogue**
Manser, Christopher J. *et al.* (incluye a Allende Prieto, Carlos) [2024MNRAS.535..254M](#)
- 681.- **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.* (incluye a Audibert, A.; Esparza-Arredondo, D.; Ramos Almeida, C.) [2024A&A...691A.162G](#)
- 682.- **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](#)
- 683.- **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.* (incluye a Barkaoui, K.) [2024A&A...691A..67M](#)
- 684.- **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.* (incluye a Palle, E.; Esparza-Borges, E.; Orell Miquel, J.; Casasayas-Barris, N.; González Hernández, J. I.; Suárez Mascareño, A.) [2024A&A...691A.120S](#)
- 685.- **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](#)
- 686.- **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](#)
- 687.- **TOI-5005 b: A super-Neptune in the savanna near the ridge**
Castro-González, A. *et al.* (incluye a Barkaoui, K.) [2024A&A...691A.233C](#)
- 688.- **Transferring spectroscopic stellar labels to 217 million Gaia DR3 XP stars with SHBoost**
Khalatyan, A. *et al.* (incluye a Queiroz, A. B. A.) [2024A&A...691A..98K](#)
- 689.- **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](#)
- 690.- **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](#)
- 691.- **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](#)

- 692.- "SNe Ia Twins for Life": Toward a Precise Determination of H_0
Ruiz-Lapuente, P.; González Hernández, J. I. [2024ApJ...977..180R](#)
- 693.- 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](#)
- 694.- 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](#)
- 695.- Architecture of TOI-561 planetary system
Piotto, G. *et al.* (incluye a Lacedelli, G.; Alonso, R.; Pallé, E.; Villaver, E.) [2024MNRAS.535.2763P](#)
- 696.- 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](#)
- 697.- 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](#)
- 698.- Blue supergiants as a progenitor of intermediate-luminosity red transients
Moriya, Takashi J.; Menon, Athira [2024PASJ...76L..27M](#)
- 699.- 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](#)
- 700.- 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](#)
- 701.- 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](#)
- 702.- 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](#)
- 703.- 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](#)
- 704.- 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](#)
- 705.- 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](#)
- 706.- 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](#)
- 707.- Euclid: The r_b - 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](#)

- 708.- 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](#)
- 709.- 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](#)
- 710.- 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](#)
- 711.- 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](#)
- 712.- Linking the primordial composition of planet building disks to the present-day composition of rocky exoplanets**
Adibekyan, V. *et al.* (incluye a **Israeli, G.**)[2024A&A...692A..67A](#)
- 713.- 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](#)
- 714.- 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](#)
- 715.- Model-independent reconstruction of UV luminosity function and reionization epoch**
Adak, Debabrata; Hazra, Dhiraj Kumar; Mitra, Sourav; Krishak, Aditi[2024JCAP...12..010A](#)
- 716.- Multi-dimensional optimisation of the scanning strategy for the LiteBIRD space mission**
Takase, Y. *et al.* (incluye a **González González, R.**)[2024JCAP...12..036T](#)
- 717.- 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](#)
- 718.- 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](#)
- 719.- 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](#)
- 720.- 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](#)
- 721.- 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](#)
- 722.- Secondary halo bias through cosmic time: II. Reconstructing halo properties using clustering information**
Balaguera-Antolínez, Andrés; Montero-Dorta, Antonio D.[2024A&A...692A..32B](#)

- 723.- 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](#)
- 724.- 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](#)
- 725.- 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](#)
- 726.- The JCMT BISTRO Survey: The Magnetic Fields of the IC 348 Star-forming Region**
Choi, Youngwoo *et al.* (incluye a Poidevin, Frédérick)[2024ApJ...977...32C](#)
- 727.- 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](#)
- 728.- 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](#)
- 729.- 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](#)
- 730.- 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](#)
- 731.- 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](#)
- 732.- 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](#)
- 733.- A very personal semblance of archaeoastronomy pioneer Professor Michael Hoskin, colleague, mentor and friend**
Belmonte, Juan Antonio[10.24215/26840162e011](#)
- 734.- Astronomy and Culture on the Camino de Santiago**
Urrutia-Aparicio, M.; González-García, A.C.; Belmonte, J.A.[10.24215/26840162e003](#)

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).

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)

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"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., Machado-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 WEAVESCIIP 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 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](#)

Sánchez Almeida J. “Einasto Gravitational Potentials have Difficulty to Hold Spherically Symmetric Stellar Systems with Cores” [2024RNAAS...8..167S](#)

**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".

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

Álvarez Hernández, Ayoze (04/12/24) "Testing white dwarf X-ray masses in magnetic cataclysmic variables with dynamical studies".