

PUBLICACIONES EN REVISTAS INTERNACIONALES CON ÁRBITRO

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- 2.- **A bright triple transient that vanished within 50 min**
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- 3.- **A Forecast of the Sensitivity of the DALI Experiment to Galactic Axion Dark Matter**
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Abe, S. *et al.* (incluye a Becerra González, J.; García López, R. J.; Herrera, J.; López-Oramas, A.; Molero González, M.; Molina, E.; Nieves Rosillo, M.; Vazquez Acosta, M.)[2024MNRAS.535.1484A](#)
- 673.- **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](#)
- 674.- **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](#)
- 675.- **A very personal semblance of archaeoastronomy pioneer Professor Michael Hoskin, colleague, mentor and friend**
Belmonte, Juan Antonio[10.24215/26840162e011](#)
- 676.- **Astronomy and Culture on the Camino de Santiago**
Urrutia-Aparicio, M.; González-García, A.C.; Belmonte, J.A.[10.24215/26840162e003](#)
- 677.- **An ultra-short-period super-Earth with an extremely high density and an outer companion**
Livingston, John H. *et al.* (incluye a Nowak, Grzegorz; Palle, Enric; Deeg, Hans)
[2024NatSR..1427219L](#)

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).

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

"LOFAR Family Meeting", 3-7 Junio, Leiden, Países Bajos.

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

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

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

"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-Asin, 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

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).

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: end-to-end optical design, integration, and verification” 2024SPIE13024E..0KC

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

Content, Robert et al. (Jones D.) “MAAT: an IFU for GTC optimized using spectrograph wavefront measurements and superoptimization” 2024SPIE13096E..95C

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, Niranjan "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
- Fasano, A. et al. "CONCERTO: Instrument model of Fourier transform spectroscopy, white-noise components" Proceeding of the SPIE, 1310200 (2024).
- Galland, Nicolas; Marquis, Lucas; Raynaud, Henri-François; Osborn, James; Marco de La Rosa, José; Montilla, Icíar; Tubío Araújo, Óscar; Reyes García-Talavera, Marcos; Kulcsár, Caroline "Autonomous predictive control for the Gran Telescopio Canarias Adaptive Optics (GTCAO) system within the H2020 ORP project: progress and initial results" 2024SPIE13097E..82G
- 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-Martin, 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, Niranjan "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..1IH
- Hernández Fernández, Alberto; Díaz Martín, David; Hernández Expósito, David; Díaz García, José Javier; Hoyland, Roger John; Rodríguez Ramos, Luis Fernando; Tubío Araújo, Óscar Manuel; Rodríguez Pérez, Silvestre "Study of a Microwave Kinetic Inductance Detector (MKID) readout system based on FPGAs and SoCs" 2024SPIE13102E..2DH
- Hernández-González, Alberto; Hernández Suárez, Elvio; Montoya Martínez, Luz Maria; Cagigas, Miguel A.; Luján González, Alejandro Antonio; García-Lorenzo, Begoña.; Alonso-Sánchez, Ángel; Thatte,

- Niranjan A. "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
- Insausti, M.; Rasilla, J. L.; Gracia, F.; Cagigas, M. A. "Optical coating facilities at the Instituto de Astrofísica de Canarias" 2024SPIE13020E..0VI
- Kubik, B. et al. (incluye Colodro-Conde, C., Tubio, 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 AlUla Manara astronomical site for the 4-m telescope project in the Kingdom of Saudi Arabia" 2024SPIE13094E..59L
- Lorenzo-Hernández H., Zamora-Jiménez A., Vega-Moreno A., Hoyland R.J., Gomez-Reñasco M.F., Díaz-Martín D., Pérez-de-Taoro A., Aguiar-González M., Rubiño-Martín J.A., Génova-Santos R.T., Rodríguez-Díaz J., López-Caraballo C.H., Rebolo-López R., Fernández-Torreiro M., Fasano A., Adak D., Arriero-López A., Almeida A. "The Multi Frequency Instrument 2 (MFI2): mechanical design, manufacture, integration, and commissioning of the MFI2 for the QUIJOTE facility in Tenerife (Canary Islands)" 2024SPIE13096E..33L
- Luján, Alejandro; Hernández, Elvio; Fuerte, Pablo; Redondo, Pablo; Hernández-González, Alberto "Innovative solution for upgrading commercial bearings for use in cryogenic instruments" 2024SPIE13100E..73L
- Malo, Lison et al. (incluye González-Hernández, J.I., Rebolo, R., Gracia Témich, F., Nari, N., Passegger, V., Rasilla, J.L., Stefanov, A.K., Suárez Mascareño, A.) "NIRPS near-infrared spectrograph: AITV phase at ESO3.6m/La Silla" 2024SPIE13096E..46M
- 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
- 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
- Marquis, Lucas et al. (incluye de La Rosa, J. M., Montilla, I., Tubío Araújo, O., Reyes García-Talavera, M., Lombardi, G.) "First on-sky tests of LQG control for a 10m-class telescope: prelude on the Gran Telescopio Canarias adaptive optics system" 2024SPIE13097E..7YM
- Martín, Yolanda; Hernandez Suarez, Elvio; Luján, Alejandro; Viera-Curbelo, Teodora A.; Alonso, Ángel A.; García-Lorenzo, Begoña "HARMONI at ELT: design and tests results of the instrument cryogenic fast shutter" 2024SPIE13100E..33M
- 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).
- Matta-Gómez, A.; Quintero Nehrkorn, J.; Quintero Noda, C.; Rodríguez Delgado, H.; Regalado Olivares, S.; Bienes, J.; Ruiz de Galarreta, C.; Collados, M.; Barreto Cabrera, M. "Use of a finite state machine approach for sequence control in the GREGOR infrared spectrograph (GRIS)" 2024SPIE13101E..3PM

Menéndez Mendoza, Saúl; Caseras González, Joan; Delgado Hernández, José Miguel; Gigante Ripoll, Jose Vicente; Hernández Suárez, Elvio; Vega Moreno, Afrodísio; García-Lorenzo, Begoña.; Alonso Sánchez, Ángel "HARMONI at ELT: HIPOTEC electronics and control system" 2024SPIE13096E..4ZM

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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Asensio Ramos A. “Machine Learning in Observations” (CO).

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

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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).

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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).

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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).

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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).

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

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

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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).

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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).
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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).

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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).

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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).

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2024 - PN

TESIS DOCTORALES (PhD Theses)

2024-T

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

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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".

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