PUBLICACIONES EN REVISTAS INTERNACIONALES CON ÁRBITRO

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| **344.-** | Star-formation activity of low-mass galaxies at the peak epoch of galaxy formation probed by deep narrow-band imagingDaikuhara, Kazuki; Kodama, Tadayuki; **Pérez-Martínez, Jose M.**; Shimakawa, Rhythm; Suzuki, Tomoko L.; Tadaki, Ken-ichi; Koyama, Yusei; Tanaka, Ichi[2024MNRAS.531.2335D](http://adsabs.harvard.edu/abs/2024MNRAS.531.2335D) |
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| **346.-** | The dependence of the magnetism of a near-limb sunspot on heightBenko, M.; Balthasar, H.; Gömöry, P.; **Kuckein, C.**; González Manrique, S. J.[2024A&A...686A.194B](http://adsabs.harvard.edu/abs/2024A%26A...686A.194B) |
| **347.-** | The Discovery and Follow-up of Four Transiting Short-period Sub-Neptunes Orbiting M DwarfsHori, Yasunori et al. (incluye a **Fukui, Akihiko**; **Narita, Norio**; **Morello, Giuseppe**; **Abreu García, Nestor**; **Álvarez Hernández, Leticia**; **Béjar, Víctor J. S.**; **Calatayud-Borras, Yéssica**; **Carleo, Ilaria**; **Enoc, Gareb**; **Esparza-Borges, Emma**; **Galán, Daniel**; **Geraldía-González, Samuel**; **Murgas, Felipe**; **Orell-Miquel, Jaume**; **Palle, Enric**; **Parviainen, Hannu**; **Peláez-Torres, Alberto**; **Puig-Subirà, Marta**; **Sánchez-Benavente, Manuel**; **Sosa-Guillén, Paula**; **Muñoz Torres, Sara**; **Barkaoui, Khalid**)[2024AJ....167..289H](http://adsabs.harvard.edu/abs/2024AJ....167..289H) |
| **348.-** | The effects of environment on galaxies' dynamical structures: From simulations to observationsDing, Y.; Zhu, L.; Pillepich, A.; van de Ven, G.; Corsini, E. M.; Iodice, E.; **Pinna, F.**[2024A&A...686A.184D](http://adsabs.harvard.edu/abs/2024A%26A...686A.184D) |
| **349.-** | The enigma of Gaia18cjb: A possible rare hybrid of FUor and EXor propertiesFiorellino, Eleonora et al. (incluye a **García-Álvarez, David**)[2024A&A...686A.160F](http://adsabs.harvard.edu/abs/2024A%26A...686A.160F) |
| **350.-** | The GALAH survey: tracing the Milky Way's formation and evolution through RR Lyrae starsD'Orazi, Valentina et al. (incluye a **Monelli, Matteo**; **Tantalo, Maria**)[2024MNRAS.531..137D](http://adsabs.harvard.edu/abs/2024MNRAS.531..137D) |
| **351.-** | The GAPS Programme at TNG. LIV. A He I survey of close-in giant planets hosted by M-K dwarf stars with GIANO-BGuilluy, G. et al. (incluye a **Boschin, W.**; **Carleo, I.**)[2024A&A...686A..83G](http://adsabs.harvard.edu/abs/2024A%26A...686A..83G) |
| **352.-** | The GAPS Programme at TNG. LV. Multiple molecular species in the atmosphere of HAT-P-11 b and review of the HAT-P-11 planetary systemBasilicata, M. et al. (incluye a **Carleo, I.**)[2024A&A...686A.127B](http://adsabs.harvard.edu/abs/2024A%26A...686A.127B) |
| **353.-** | The influence of thermal pressure gradients and ionization (im)balance on the ambipolar diffusion and charge-neutral drifts**Gómez Míguez, M. M.**; **Martínez Gómez, D.**; **Khomenko, E.**; **Vitas, N.**[2024RSPTA.38230228G](http://adsabs.harvard.edu/abs/2024RSPTA.38230228G) |
| **354.-** | The Milky Way bar pattern speed using Hercules and Gaia DR3Lucchini, Scott; D'Onghia, Elena; **Aguerri, J. Alfonso L.**[2024MNRAS.531L..14L](http://adsabs.harvard.edu/abs/2024MNRAS.531L..14L) |
| **355.-** | Towards an observationally motivated AGN dusty torus model - I. Dust chemical composition from the modelling of Spitzer spectraReyes-Amador, Omar Ulises; Fritz, Jacopo; González-Martín, Omaira; Srinivasan, Sundar; Baes, Maarten; Lopez-Rodriguez, Enrique; Osorio-Clavijo, Natalia; Victoria-Ceballos, Cesar Iván; Stalevski, Marko; **Ramos Almeida, C.**[2024MNRAS.531.1841R](http://adsabs.harvard.edu/abs/2024MNRAS.531.1841R) |
| **356.-** | Understanding the thermal and magnetic properties of an X-class flare in the low solar atmosphereFerrente, F.; **Quintero Noda, C.**; Zuccarello, F.; Guglielmino, S. L.[2024A&A...686A.244F](http://adsabs.harvard.edu/abs/2024A%26A...686A.244F) |
| **357.-** | Validation of a Third Planet in the LHS 1678 SystemSilverstein, Michele L. et al. (incluye a **Murgas, Felipe**; **Palle, Enric**)[2024AJ....167..255S](http://adsabs.harvard.edu/abs/2024AJ....167..255S) |
| **358.-** | Variation of the stellar initial mass function in semi-analytical models. III. Testing the cosmic-ray regulated integrated galaxy-wide initial mass functionFontanot, Fabio; La Barbera, Francesco; De Lucia, Gabriella; Cecchi, Rachele; Xie, Lizhi; Hirschmann, Michaela; Bruzual, Gustavo; Charlot, Stéphane; **Vazdekis, Alexandre**[2024A&A...686A.302F](http://adsabs.harvard.edu/abs/2024A%26A...686A.302F) |
| **359.-** | A fast neural emulator for interstellar chemistry**Asensio Ramos, A.**; **Westendorp Plaza, C.**; Navarro-Almaida, D.; Rivière-Marichalar, P.; Wakelam, V.; Fuente, A.[2024MNRAS.531.4930R](http://adsabs.harvard.edu/abs/2024MNRAS.531.4930R) |
| **360.-** | A fast neural emulator for interstellar chemistry**Asensio Ramos, A.**; **Westendorp Plaza, C.**; Navarro-Almaida, D.; Rivière-Marichalar, P.; Wakelam, V.; Fuente, A.[2024MNRAS.531.4930A](http://adsabs.harvard.edu/abs/2024MNRAS.531.4930A) |
| **361.-** | AuriDESI: mock catalogues for the DESI Milky Way SurveyKizhuprakkat, Namitha et al. (incluye a **Allende Prieto, Carlos**)[2024MNRAS.531.4108K](http://adsabs.harvard.edu/abs/2024MNRAS.531.4108K) |
| **362.-** | Bayesian inference methodology to characterize the dust emissivity at far-infrared and submillimeter frequencies**Adak, Debabrata**; Shaikh, Shabbir; Sinha, Srijita; Ghosh, Tuhin; Boulanger, Francois; Lagache, Guilaine; Souradeep, Tarun; Miville-Deschênes, Marc-Antoine[2024MNRAS.531.4876A](http://adsabs.harvard.edu/abs/2024MNRAS.531.4876A) |
| **363.-** | Comparison of optical spectra between asteroids Ryugu and Bennu: I. Cross calibration between Hayabusa2/ONC-T and OSIRIS-REx/MapCamYumoto, K. et al. (incluye a **de León, J.**; **Licandro, J.**)[2024Icar..41716122Y](http://adsabs.harvard.edu/abs/2024Icar..41716122Y) |
| **364.-** | CosmoMIA: cosmic web-based redshift space halo distributionForero Sánchez, D.; **Kitaura, F. -S.**; **Sinigaglia, F.**; **Coloma-Nadal, J. M.**; Kneib, J. -P.[2024JCAP...07..001F](http://adsabs.harvard.edu/abs/2024JCAP...07..001F) |
| **365.-** | Debris Disks Can Contaminate Mid-infrared Exoplanet Spectra: Evidence for a Circumstellar Debris Disk around Exoplanet Host WASP-39Flagg, Laura et al. (incluye a **Morello, Giuseppe**)[2024ApJ...969L..19F](http://adsabs.harvard.edu/abs/2024ApJ...969L..19F) |
| **366.-** | Detection of Fe and Ti on the dayside of the ultrahot Jupiter MASCARA-1b with CARMENESGuo, B. et al. (incluye a **Pallé, E.**)[2024A&A...687A.103G](http://adsabs.harvard.edu/abs/2024A%26A...687A.103G) |
| **367.-** | Detection of Na in the atmosphere of the hot Jupiter HAT-P-55bKang, Huiyi; Chen, Guo; Jiang, Chengzi; **Pallé, Enric**; **Murgas, Felipe**; **Parviainen, Hannu**; Ma, Yuehua; **Fukui, Akihiko**; **Narita, Norio**[2024A&A...687A...9K](http://adsabs.harvard.edu/abs/2024A%26A...687A...9K) |
| **368.-** | Excitation mechanisms of C II optical permitted lines in ionized nebulae**Reyes-Rodríguez, E.**; Méndez-Delgado, J. E.; **García-Rojas, J.**; Binette, L.; Nemer, A.; **Esteban, C.**; Kreckel, K.[2024A&A...687A..97R](http://adsabs.harvard.edu/abs/2024A%26A...687A..97R) |
| **369.-** | Exploring galaxy evolution time-scales in clusters: insights from the projected phase spaceSampaio, V. M.; de Carvalho, R. R.; Aragón-Salamanca, A.; Merrifield, M. R.; **Ferreras, I.**; Cornwell, D. J.[2024MNRAS.532..982S](http://adsabs.harvard.edu/abs/2024MNRAS.532..982S) |
| **370.-** | Galaxy merger challenge: A comparison study between machine learning-based detection methodsMargalef-Bentabol, B. et al. (incluye a **Huertas-Company, M.**)[2024A&A...687A..24M](http://adsabs.harvard.edu/abs/2024A%26A...687A..24M) |
| **371.-** | HD 110067 c has an aligned orbit. Measuring the Rossiter-McLaughlin effect inside a resonant multi-planet system with ESPRESSOZak, J. et al. (incluye a **Fukui, A.**; **Jones, D.**; **Murgas, F.**; **Palle, E.**)[2024A&A...687L...2Z](http://adsabs.harvard.edu/abs/2024A%26A...687L...2Z) |
| **372.-** | Integral field spectroscopy supports atmospheric optics to reveal the finite outer scale of the turbulence**García-Lorenzo, B.**; **Esparza-Arredondo, D.**; **Acosta-Pulido, J. A.**; **Castro-Almazán, J. A.**[2024A&A...687A..40G](http://adsabs.harvard.edu/abs/2024A%26A...687A..40G) |
| **373.-** | Ionised AGN outflows in the Goldfish galaxy: The illuminating and interacting red quasar eFEDSJ091157.4+014327 at z ∼ 0.6Musiimenta, B. et al. (incluye a **Speranza, G.**; **Ramos Almeida, C.**)[2024A&A...687A.111M](http://adsabs.harvard.edu/abs/2024A%26A...687A.111M) |
| **374.-** | Migration and Evolution of giant ExoPlanets (MEEP). I. Nine Newly Confirmed Hot Jupiters from the TESS MissionSchulte, Jack et al. (incluye a **Barkaoui, Khalid**; **Murgas, Felipe**; **Narita, Norio**; **Esparza-Borges, Emma**; **Fukui, Akihiko**; **Palle, Enric**; **Parviainen, Hannu**)[2024AJ....168...32S](http://adsabs.harvard.edu/abs/2024AJ....168...32S) |
| **375.-** | Scrutinizing evidence for the triggering of active galactic nuclei in the outskirts of massive galaxy clusters at z ≈ 1Muñoz Rodríguez, Iván; Georgakakis, Antonis; Shankar, Francesco; Ruiz, Ángel; Bonoli, Silvia; Comparat, Johan; Fu, Hao; Koulouridis, Elias; Lapi, Andrea; **Ramos Almeida, Cristina**[2024MNRAS.532..336M](http://adsabs.harvard.edu/abs/2024MNRAS.532..336M) |
| **376.-** | Search and analysis of giant radio galaxies with associated nuclei (SAGAN). IV. Interplay with the Supercluster environmentSankhyayan, Shishir; **Dabhade, Pratik**[2024A&A...687L...8S](http://adsabs.harvard.edu/abs/2024A%26A...687L...8S) |
| **377.-** | Self-consistent Combined HST, K-band, and Spitzer Photometric Catalogs of the BUFFALO Survey FieldsPagul, Amanda et al. (incluye a **Montes, Mireia**)[2024ApJS..273...10P](http://adsabs.harvard.edu/abs/2024ApJS..273...10P) |
| **378.-** | SPT-SZ MCMF: an extension of the SPT-SZ catalogue over the DES regionKlein, M. et al. (incluye a **Carnero Rosell, A.**)[2024MNRAS.531.3973K](http://adsabs.harvard.edu/abs/2024MNRAS.531.3973K) |
| **379.-** | Systematic analysis of jellyfish galaxy candidates in Fornax, Antlia, and Hydra from the S-PLUS survey: a self-supervised visual identification aidGondhalekar, Yash et al. (incluye a **Riffel, Rogério**)[2024MNRAS.532..270G](http://adsabs.harvard.edu/abs/2024MNRAS.532..270G) |
| **380.-** | TESS Hunt for Young and Maturing Exoplanets (THYME). X. A Two-planet System in the 210 Myr MELANGE-5 AssociationThao, Pa Chia et al. (incluye a **Barkaoui, Khalid**)[2024AJ....168...41T](http://adsabs.harvard.edu/abs/2024AJ....168...41T) |
| **381.-** | The CAVITY project: The spatially resolved stellar population properties of galaxies in voidsConrado, Ana M. et al. (incluye a **Falcón-Barroso, Jesús**; **Ferré-Mateu, Anna**; **Román, Javier**)[2024A&A...687A..98C](http://adsabs.harvard.edu/abs/2024A%26A...687A..98C) |
| **382.-** | The colliding-wind binary HD 168112Blomme, R.; Rauw, G.; Volpi, D.; Nazé, Y.; **Abdul-Masih, M.**[2024A&A...687A.106B](http://adsabs.harvard.edu/abs/2024A%26A...687A.106B) |
| **383.-** | The Complete CEERS Early Universe Galaxy Sample: A Surprisingly Slow Evolution of the Space Density of Bright Galaxies at z ∼ 8.5–14.5Finkelstein, Steven L. et al. (incluye a **Huertas-Company, Marc**)[2024ApJ...969L...2F](http://adsabs.harvard.edu/abs/2024ApJ...969L...2F) |
| **384.-** | The COSMOS-Web ring: In-depth characterization of an Einstein ring lensing system at z ∼ 2Mercier, W. et al. (incluye a **Huertas-Company, M.**)[2024A&A...687A..61M](http://adsabs.harvard.edu/abs/2024A%26A...687A..61M) |
| **385.-** | The dark energy survey: detection of weak lensing magnification of supernovae and constraints on dark matter haloesShah, P. et al. (incluye a **Carnero Rosell, A.**)[2024MNRAS.532..932S](http://adsabs.harvard.edu/abs/2024MNRAS.532..932S) |
| **386.-** | The Lockman-SpReSO project. Main properties of infrared-selected star-forming galaxies**González-Otero, Mauro** et al. (incluye a **Cepa, Jordi**; **Padilla-Torres, Carmen P.**)[2024A&A...687A..19G](http://adsabs.harvard.edu/abs/2024A%26A...687A..19G) |
| **387.-** | The MAGPI Survey: massive slow rotator population in place by z 0.3Derkenne, Caro et al. (incluye a **Ferré-Mateu, Anna**)[2024MNRAS.531.4602D](http://adsabs.harvard.edu/abs/2024MNRAS.531.4602D) |
| **388.-** | TOI-4336 A b: A temperate sub-Neptune ripe for atmospheric characterization in a nearby triple M-dwarf systemTimmermans, M. et al. (incluye a **Barkaoui, K.**; **Murgas, F.**)[2024A&A...687A..48T](http://adsabs.harvard.edu/abs/2024A%26A...687A..48T) |
| **389.-** | TOI-837 b is a young Saturn-sized exoplanet with a massive 70 M⊕ coreBarragán, Oscar et al. (incluye a **Mallorquín, Manuel**)[2024MNRAS.531.4275B](http://adsabs.harvard.edu/abs/2024MNRAS.531.4275B) |
| **390.-** | Trio of super-Earth candidates orbiting K-dwarf HD 48948: a new habitable zone candidateDalal, S. et al. (incluye a **Boschin, W.**)[2024MNRAS.531.4464D](http://adsabs.harvard.edu/abs/2024MNRAS.531.4464D) |
| **391.-** | Two-dimensional Eclipse Mapping of the Hot-Jupiter WASP-43b with JWST MIRI/LRSHammond, Mark et al. (incluye a **Morello, Giuseppe**)[2024AJ....168....4H](http://adsabs.harvard.edu/abs/2024AJ....168....4H) |
| **392.-** | Unraveling the kinematics of IZw18: A detailed study of ionized gas with MEGARA/GTCArroyo-Polonio, A.; Kehrig, C.; Iglesias-Páramo, J.; Vílchez, J. M.; Pérez-Montero, E.; Duarte Puertas, S.; Gallego, J.; **Reverte, D.**; **Cabrera-Lavers, A.**[2024A&A...687A..77A](http://adsabs.harvard.edu/abs/2024A%26A...687A..77A) |
| **393.-** | Unveiling the (in)consistencies among the galaxy stellar mass function, star formation histories, satellite abundances, and intracluster light from a semi-empirical perspectiveFu, Hao et al. (incluye a **Martín-Navarro, Ignacio**)[2024MNRAS.532..177F](http://adsabs.harvard.edu/abs/2024MNRAS.532..177F) |

**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.

**LIBROS Y CAPÍTULOS DE LIBROS**

**(Books & Book Chapters, Conference Proceedings included)**

**2024-L**

[Srivastava A.K.](https://vesta.ll.iac.es/inves/publications/articles/author/Srivastava%252C%2BAbhishek%2BKumar), [Goossens M.](https://vesta.ll.iac.es/inves/publications/articles/author/Goossens%252C%2BMarcel), Arregui I. (eds.) “Magnetohydrodynamic Processes in Solar Plasmas” (Elsevier) ISBN: 9780323956642.

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

**Capítulos de libros**

Field, J. V., Mahoney, T. J. “Introduction: Kepler’s place in the history of science” “Reading the Mind of God: Johannes Kepler and the Reform o f 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 o f 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 Doorsselaere, 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.

**COMUNICACIONES A CONGRESOS INTERNACIONALES**

**(Contributions delivered at International Meetings)**

**2024-CI**

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

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

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

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

**"Transients Down Under", 29 Enero-2 Febrero, Melbourne, Australia.**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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).

**“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.**

“Deriving Star Formation Histories of Galaxies from Spectra with Simulation-based Inference”(CO).

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

Dabhade P. “[Probing the Evolution of Radio Quasar Morphologies Across Cosmic Time with LoTSS](https://indico.lofar.eu/event/3/abstracts/71/)" 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)

**"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).

**“XVI SEA 2024: Sociedad Española de Astronomía”, 15-19 Julio, Granada.**

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

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

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

**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)

**"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)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**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](https://ui.adsabs.harvard.edu/%22%20%5Cl%20%22abs/2024arXiv240305398M/abstract) **[Battaglia G., Herrero A.](https://ui.adsabs.harvard.edu/%22%20%5Cl%20%22abs/2024arXiv240305398M/abstract)**[) “The Wide-field Spectroscopic Telescope (WST). Science White Paper” 2024arXiv240305398M](https://ui.adsabs.harvard.edu/%22%20%5Cl%20%22abs/2024arXiv240305398M/abstract)

Fijma, Stefanie et al. (Incluye **Armas Padilla M, Muñoz Darias T**.) “[A Disc Wind Where You Least Expect It: The Outflow in the Short-period X-ray Binary UW CrB](https://vesta.ll.iac.es/inves/publications/articles/adsmassimport?url=articles%2Fadsmassimport#collapse1)” *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](https://vesta.ll.iac.es/inves/publications/articles/adsmassimport?url=articles%2Fadsmassimport#collapse2)” *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)](https://vesta.ll.iac.es/inves/publications/articles/view/23611)” [2024RNAAS...8....6B](https://ui.adsabs.harvard.edu/abs/2024RNAAS...8....6B/abstract)

Taibi, S.; Roth, M. M.; **Battaglia, G.;** Kamann, S. “[An Enigmatic High Excitation Nebula in IC 1613 Dwarf Galaxy](https://vesta.ll.iac.es/inves/publications/articles/view/23681)” [2024RNAAS...8...45T](https://ui.adsabs.harvard.edu/abs/2024RNAAS...8...45T/abstract)

**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](https://vesta.ll.iac.es/inves/publications/articles/view/23928)” [2024RNAAS...8..150M](https://ui.adsabs.harvard.edu/abs/2024RNAAS...8..150M/abstract)

Ali, Abduhla; Diercke, Andrea; Hofmeister, Stefan; **Kuckein, Christoph**; Savin, Daniel Wolf; Hahn, Michael “[Evaluation of a Magnetic Field Inversion Method Using Only Stokes I](https://vesta.ll.iac.es/inves/publications/articles/view/23612)” [2024RNAAS...8...15A](https://ui.adsabs.harvard.edu/abs/2024RNAAS...8...15A/abstract)

Blanton, Lilly; Hillwig, Todd; **Jones, David** “[Modeling Close Binary Systems Within Planetary Nebulae](https://vesta.ll.iac.es/inves/publications/articles/view/23732)” [2024AAS...24311307B](https://ui.adsabs.harvard.edu/abs/2024AAS...24311307B/abstract)

Wood, Hunter; Hillwig, Todd; Reindl, Nicole; **Jones, David** “[Modeling Binary Systems Containing the Hot White Dwarfs WD1136+667 and Gaia-DR2-1350](https://vesta.ll.iac.es/inves/publications/articles/view/23733)” [2024AAS...24336704W](https://ui.adsabs.harvard.edu/abs/2024AAS...24336704W/abstract)

Nidever, David et al. (incluye **Allende-Prieto C.**) “[First JWST Results Find No Alpha-Bimodality in M31](https://vesta.ll.iac.es/inves/publications/articles/view/23735)” [2024AAS...24342805N](https://ui.adsabs.harvard.edu/abs/2024AAS...24342805N/abstract)

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](https://vesta.ll.iac.es/inves/publications/articles/view/23731)” [2024AAS...24343201H](https://ui.adsabs.harvard.edu/abs/2024AAS...24343201H/abstract)

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](https://vesta.ll.iac.es/inves/publications/articles/view/23792)” [2024ESS.....560801P](https://ui.adsabs.harvard.edu/abs/2024ESS.....560801P/abstract)

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](https://vesta.ll.iac.es/inves/publications/articles/view/23788)” [2024ESS.....561705W](https://ui.adsabs.harvard.edu/abs/2024ESS.....561705W/abstract)

Gilbert, Emily et al. (Incluye **Suárez Mascareño A**.) “[Measuring the Masses of the TOI-700 Planets with ESPRESSO](https://vesta.ll.iac.es/inves/publications/articles/view/23789)” [2024ESS.....560107G](https://ui.adsabs.harvard.edu/abs/2024ESS.....560107G/abstract)

Greklek-McKeon, Michael et al. (**Parviainen H.**) “[Finding Water Worlds with Transit Timing Variations](https://vesta.ll.iac.es/inves/publications/articles/view/23787)” [2024ESS.....560502G](https://ui.adsabs.harvard.edu/abs/2024ESS.....560502G/abstract)

Lendl, Monika et al. (**Parviainen H**.) “[3.5 years of observing exoplanet day sides with CHEOPS](https://vesta.ll.iac.es/inves/publications/articles/view/23790)” [2024ESS.....510204L](https://ui.adsabs.harvard.edu/abs/2024ESS.....510204L/abstract)

Perotto, L. et al. (incluye **Barrena R.**) “[The NIKA2 Sunyaev-Zeldovich Large Program. Sample and upcoming product public release](https://vesta.ll.iac.es/inves/publications/articles/view/23832)” [2024EPJWC.29300040P](https://ui.adsabs.harvard.edu/abs/2024EPJWC.29300040P/abstract)

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](https://vesta.ll.iac.es/inves/publications/articles/view/23831)” [2024EPJWC.29300031M](https://ui.adsabs.harvard.edu/abs/2024EPJWC.29300031M/abstract)

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](https://vesta.ll.iac.es/inves/publications/articles/view/23828)” [2024EPJWC.29300047S](https://ui.adsabs.harvard.edu/abs/2024EPJWC.29300047S/abstract)

de Andres, Daniel et al. (incluye **Ferragamo, Antonio**) **“**[Generating galaxy clusters mass density maps from mock multiview images via deep learning](https://vesta.ll.iac.es/inves/publications/articles/view/23830)”

[2024EPJWC.29300013D](https://ui.adsabs.harvard.edu/abs/2024EPJWC.29300013D/abstract)

Muñoz-Echeverría, M. et al. (incluye **Ferragamo A.**) “Estimation of the hydrostatic-to-lensing mass bias

 from resolved cluster masses” [2024EPJWC.29300033M](https://ui.adsabs.harvard.edu/abs/2024EPJWC.29300033M/abstract)

**Fasano, Alessandro** et al. “[CONCERTO: Instrument and status](https://vesta.ll.iac.es/inves/publications/articles/view/23833)” [2024EPJWC.29300018](https://ui.adsabs.harvard.edu/abs/2024EPJWC.29300018F/abstract)F

**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](https://vesta.ll.iac.es/inves/publications/articles/view/23834)” [2024EPJWC.29300019F](https://ui.adsabs.harvard.edu/abs/2024EPJWC.29300019F/abstract)

Paliwal, A. et al. (incluye **Ferragamo, A.**) “[3D scaling laws and projection effects in The300-NIKA2 Sunyaev-Zeldovich Large Program Twin Samples](https://vesta.ll.iac.es/inves/publications/articles/view/23829)” [2024EPJWC.29300037P](https://ui.adsabs.harvard.edu/abs/2024EPJWC.29300037P/abstract)

**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”.