



**SOCIEDAD ESPAÑOLA DE ASTRONOMÍA
XIII REUNIÓN CIENTÍFICA / XIII SCIENTIFIC MEETING
SALAMANCA 16-20 JULIO / 16-20 JULY 2018**

SEA

PÓSTERES / POSTERS

GALAXIAS Y COSMOLOGÍA / GALAXIES AND COSMOLOGY

- MEGARA-GC1 **Castillo Morales, África** MEGARA Early-Science results: Stellar populations in nearby galaxies
MEGARA-GC2 **Catalán Torrecilla, Cristina** MEGARA Early-Science results: Neutral and ionized galactic winds in the central parts of nearby galaxies
MEGARA-GC3 **Chamorro Cazorla, Mario** MEGARA Early-Science results: Stellar dynamics in external galaxies
MEGARA-GC4 **García Vargas, María Luisa** MEGARA Early-Science results: Low metallicity regions observed during MEGARA commissioning at the GTC
MEGARA-GC5 **Martínez Delgado, Ismael** MEGARA Early-Science results: Study of abundances and kinematics of ionized gas in BCDs during MEGARA commissioning
MEGARA-GC6 **Pacual, Sergio** MEGARA: Herramienta de procesado de datos
GC7 **Agis González, Beatriz** TRUE2: establishing a detectability limit on hidden broad line regions
GC8 **Aguado Barahona, Alejandro** Optical follow-up of galaxy cluster candidates detected by Planck satellite in the PSZ2 catalogue
GC9 **Amarantidis, Stergios** The first Super Massive Black Holes: indications from models for future observations
GC10 **Ayala Gómez, Adrián** On the analysis of the FREDs gamma ray bursts
GC11 **Azulay, Rebecca** Phase-referencing measurements of positional frequency-dependent shifts in ultra-compact AGN cores
GC12 **Belloch, Enrica** Characterizing the ionized outflows in optically obscured quasars at $z \sim 0.4$
GC13 **Bonoli, Silvia** Massive black hole seeds from gas-rich galaxy mergers
GC14 **Breda, Iris** The continuous rise of bulges out of galactic disks
GC15 **Buitrago, Fernando** Accurate number densities and environment for compact and relic massive galaxies
GC16 **Cabello González, Cristina** First results of an observational test of a double reionization scenario by detecting galaxies at high redshift
GC17 **Carro Maroto, Jorge** Estructura estelar en teorías de gravedad modificada
GC18 **Castelão, Diogo** Testing structure formation in Unified Dark matter-energy models
GC19 **Cazzoli, Sara** Optical spectroscopy of local type-1 AGN LINERs
GC20 **Correia, José Ricardo** Anisotropic Domain Walls
GC21 **Crespo Gómez, Alejandro** Stellar kinematics and dynamics of a sample of LIRGs observed with SINFONI
GC22 **Díaz García, Luis Alberto** The capabilities of the J-PLUS survey for stellar population studies
GC23 **Díaz-Sánchez, Anastasio** Discovery of a lensed ultrabright submillimeter galaxy at $z=2.0439$
GC24 **Domínguez Fernández, Alejandro Javier** Molecular gas in/outflows in the nuclear regions of five Seyfert galaxies
GC25 **Domínguez Sánchez, Helena** Deep learning for morphological classification of galaxies
GC26 **Eftekhari, Elham** Environmental dependence of the IMF-sensitive features in intermediate-mass quiescent galaxies
GC27 **Erroz Ferrer, Santiago** The MUSE Atlas of Disks (MAD): Ionized gas properties in local galaxies
GC28 **Fuentes, Antonio** Total and linearly polarized synchrotron emission from overpressured magnetized relativistic jets
GC29 **Galera Rosillo, Rebeca** La búsqueda de nebulosas planetarias en las afueras de M33: Qué encontramos cuando no encontramos "nada".
GC30 **García Quirós, Cecilio** Modelling subdominant gravitational waves modes and its astrophysical implications
GC31 **Gonçalves Morais, Sandy** Feedback in Lyman-alpha halos around two radio galaxies at $z \sim 2.5$
GC32 **Herrero Illana, Rubén** A multi-wavelength approach towards the characterization of Luminous Infrared Galaxies
GC33 **Humphrey, Andrew** Photoionization models for extreme Ly-alpha ratios from high- z quasar halos and Ly-alpha blobs
GC34 **Izquierdo-Villalba, David** Mock Galaxy Lightcones with Emission Lines for Narrow-Band Photometric Surveys
GC35 **Izquierdo Villalba, David** Supermassive black hole growth in galaxy formation models
GC36 **Labiano, Alvaro** MIRI GTO spectroscopy of high- z galaxies
GC37 **Logroño García, Rafael** J-PLUS DR1: 2D SFR properties in nearby galaxies
GC38 **Martínez Lombilla, Cristina** Measuring disc growth of Milky Way-like galaxies with ultra-deep imaging
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GC40 **Messias, Hugo** AGN demography with JWST - broad-band imaging to the rescue
GC41 **Millán Irigoyen, Iker** The role of dust in galactic chemical evolution
GC42 **Mollá, Mercedes** 2D-Galaxy Chemical evolution models: The role of the spiral wave overdensity on the elemental abundances
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GC44 **Nieves Seoane, Lorena** Función de Luminosidad (LF) del catálogo cruzado ALHAMBRA Ks + IRAC
GC45 **Ordovás-Pascual, Ignacio** Dust-to-gas ratio in a complete sample of type-1 AGN
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GC47 **Pappalardo, Ciro** The Portuguese Alma Center of Expertise: ALMA research in Portugal after 3 years
GC48 **Paulino-Afonso, Ana** LAEs: don't ever change?
GC49 **Paulino-Afonso, Ana** Mergers, shocks and turbulence and their effects on galaxy evolution
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GC59 **Spinosa, Daniele** A search for bright Lyman-alpha emitters in the J-PLUS photometric survey
GC60 **Sabater, José** Characterization of SDSS sources at 150 MHz.
GC61 **Urbano Mayorgas, Juan José** The host galaxies of luminous obscured active galactic nuclei at $z \sim 0.3-0.4$.
GC62 **Urdampilleta Aldama, Igone** X-ray study of the double radio relic Abell 3376 with Suzaku
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VÍA LÁCTEA Y SUS COMPONENTES / MILKY WAY AND ITS COMPONENTS

- VL1 **Balaguer Núñez, Lola** Open Clusters Membership by Clusterix 2.0 for Gaia DR2
- VL2 **Cantat Gaudin, Tristán** The Open Cluster population seen by Gaia
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- VL4 **Figuera, Francesca** The Spanish Network for Gaia Science Exploitation and the Second Data Release
- VL5 **Jiménez Esteban, Francisco Manuel** The Pleiades as seen by Tycho-Gaia Astrometric Solution and the Virtual Observatory
- VL6 **Jordi, Carme** The OCCASO open clusters revisited with Gaia data
- VL7 **Maíz Apellániz, Jesús** ¿Qué nos puede decir Gaia sobre las estrellas masivas?
- VL8 **Montes Gutiérrez, David** Late-type stars members of young stellar kinematic groups after Gaia-DR2
- VL9 **Romero-Cómez, Mercè** The Galactic warp signature as detected by Gaia DR2
- VL10 **Vioque de Lázaro, Miguel** Gaia Study on the Formation of Intermediate Mass Stars
- CARMENES-VL11 **Carro Maroto, Jorge** CARMENES target characterisation: close and wide multiplicity in M dwarfs
- CARMENES-VL12 **Gómez Marfil, Emilio** Stellar atmospheric parameters of FGK-type stars from high-resolution optical and near-infrared CARMENES spectra
- CARMENES-VL13 **Labarga Ávalos, Fernando** The chromospheric activity of M dwarfs from visible and near-infrared CARMENES spectra: analysis of flux-flux relationships
- CARMENES-VL14 **Lázaro Barrasa, Francisco Javier** Spectral synthesis of CARMENES M-type stars: stellar atmospheric parameters
- VL15 **Alfaro, Emilio J.** Stellar component in the OTELO emission-line survey
- VL16 **Aller Egea, Alba** Planetary nebula LoTr5: hints of a possible third companion in a long-period binary central star
- VL17 **Anders, Friedrich** Dissecting the chemical abundance space of the solar neighbourhood with t-SNE
- VL18 **Beitia Antero, Leire** Taking advantage of Machine Learning to identify potential T-Tauri star candidates
- VL19 **Bordiú Fernández, Cristobal** Tracing back the mass loss history of the LBV MGE042.0787+00.5084
- VL20 **Caballero, José Antonio** On the name of stars with exoplanets
- VL21 **Carrera, Ricardo** Open clusters through the eyes of WEAVE
- VL22 **de Burgos Sierra, Abel** A new OSIRIS/GTC and IDS/INT spectroscopic survey of young stars in the sigma Orionis cluster
- VL23 **Delgado Mena, Elisa** Stellar dating using chemical abundances
- VL24 **Domingo Garau, Albert** 15 years of INTEGRAL/OMC monitoring
- VL25 **Fedriani, Rubén** Protostellar jets revealing the physical processes of high mass star formation
- VL26 **Galera Rosillo, Rebeca** The origin of the most luminous planetary nebulae I: M31
- VL27 **Galindo Gui, Francisco José** The low end of the IMF: very low mass stars and substellar objects in different ages states
- VL28 **García Santa-María, Miriam** Widespread UV-irradiated Warm and Dense gas in Orion Molecular Cloud
- VL29 **Gómez Garrido, Miguel** The variability of SiO maser emission from evolved stars
- VL30 **Gómez-Muñoz, Marco Antonio** The central star of NGC2346, as a clue to binary evolution through the common envelope phase
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- VL32 **Guerrero Roncel, Martín** A New Classical Nova Shell in Cygnus
- VL33 **Herrero Bermúdez, Álvaro** Dark matter driven conversion of neutron stars into quark stars
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- VL35 **Jiménez Ibarra, Felipe** The vertical structure of the accretion disc in LMXBs
- VL36 **Jones, David** El baile estelar más largo en una nebulosa planetaria
- VL37 **Labarga Ávalos, Fernando** iSTARMOD: a Python code to quantify the chromospheric activity of FGKM stars using the spectral subtraction technique
- VL38 **Lares Martíz, Mariel** Direct Deconvolution: a method to minimize the effects of the observational window on power spectra
- VL39 **Lillo-Box, Jorge** TROY - The search for exotrojan planets
- VL40 **Llorente de Andres, Félix** Dependency analysis of stellar Li depletion in the presence of planets
- VL41 **López Martínez, Fátima** Analysis of the physical properties of jets/outflows in T Tauri stars
- VL42 **Lorenzo Gutiérrez, Antonio** GALANTE: 11 bands photometry of Cyg OB2
- VL43 **Maíz Apellániz, Jesús** Una biblioteca de espectros de alta resolución de estrellas masivas
- VL44 **Manchado, Arturo** GTC/CanariCam narrow-band Imaging of the Fullerene-rich Planetary Nebula IC 418
- VL45 **Manjavacas, Elena** Cloud Atlas: Discovery of Rotational Spectral Modulations in a Low-mass, L-type Brown Dwarf Companion to a Star
- VL46 **Mata Sanchez, Daniel** The 1989 and 2015 outbursts of V404 Cygni: a global study of spectroscopic optical features
- VL47 **Mendigutía, Ignacio** Linking young stars, clouds, and galaxies through stellar accretion rates
- VL48 **Montes Gutiérrez, David** Calibrating the metallicity of M dwarfs in wide physical binaries with F-, G-, and K- primaries: a sample of 192 physically bound systems
- VL49 **Mor, Roger** Decoding the local star formation scenario with the Besançon Galaxy Model
- VL50 **Negueruela, Ignacio** A new classification scheme for B-type stars
- VL51 **Nogueras Lara, Francisco** A new infrared view of the Galactic Centre. The GALACTICNUCLEUS survey
- VL52 **Pajuelo Polo, Pablo** Equation of state for neutron star outer crusts
- VL53 **Pascual Granado, Javier** Detection of Flares in A-type stars using Bayesian Blocks and Superresolution techniques
- VL54 **Pérez Blanco, Alice G. Yumiri** Clustering properties of Herbig Ae/Be stars
- VL55 **Pérez Mesa, Víctor** Circumstellar effects on the Li and Ca abundances in massive GalacticO-rich AGB stars
- VL56 **Rodes Roca, José Joaquín** Discussing the nature of three BeXRBs through infrared spectroscopy
- VL57 **Rodrigo Blanco, Carlos** Spanish Virtual Observatory Discovery Tool
- VL58 **Rodrigo Blanco, Carlos** VOSA: A Virtual Observatory tool to estimate physical parameters of stellar objects from SED fitting
- VL59 **Rodríguez Berlanas, Sara** Exploring massive stars in the Cygnus OB2 association
- VL60 **Sagun, Violetta** Realistic equation of state for neutron stars interior consistent with heavy-ion collision data
- VL61 **Sánchez, Néstor** Determining the radius of an open cluster from stellar proper motions
- VL62 **Sánchez Contreras, Carmen** The intricate nebular architecture of "The Rotten Egg" disclosed by ALMA
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- VL64 **Solano Márquez, Enrique** Identification of ultracool dwarfs in ALHAMBRA and COSMOS fields
- VL65 **Stoev, Hristo** A catalogue of variable stars in the near-infrared from the WFCAM Transit Survey
- VL66 **Suárez Mascareño, Alejandro** Magnetic cycles and rotation in late type stars
- VL67 **Suárez Yanes, Juan Carlos** The entropy of stellar oscillations
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- VL70 **Trigueros Pérez, Emilio** A Systematic Study of Northern O-type Binaries
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- VL73 **Vázquez Ramió, Héctor** Identification of RR Lyrae stars in the Javalambre Photometric Local Universe
- VL74 **Velasco, Sergio** Probing the theories on disk-star interactions with CanariCam: the unique quintuplet YSO system LkHa 262/263

CIENCIAS PLANETARIAS / PLANETARY SCIENCES

- CP1 Alemañ Berenguer, Rafael Andrés The internal structure of small solar system bodies related to their collisional environment
CP2 Canet Varea, Ada Modelización numérica de la interacción entre las exosferas planetarias y el viento estelar
CP3 Cardona Guillén, Carlos A radial velocity search for exoplanets around members of young open clusters and moving groups with CARMENES
CP4 Chen-Chen, Hao Martian dust size and shape from MSL Engineering Cameras
CP5 Cifuentes San Román, Carlos Spectral energy distributions and luminosities of M dwarfs in the CARMENES search for exoplanets
CP6 Climent Oliver, Juan Bautista Exploring the nature of AB Dor C with NIR interferometry
CP7 Cortés Contreras, Miriam Identification and characterization of asteroids using the WFCAM Transit Survey and the Virtual Observatory
CP8 del Ser Badía, Daniel TFAW: wavelet-based signal reconstruction to reduce photometric noise in time-domain surveys
CP9 Domingo Beltrán, Manuel Uso de la ecuación de Lorentz-Lorenz en astrofísica
CP10 Herrero-Gil, Andrea Modelización 3D de escarpes lobulados en Marte
CP11 Lorente Balanza, Rosario JUICE: a European Mission to Jupiter and its Icy Moons
CP12 Luna, Ramón Estudio de la desorción térmica del metanol con una microbalanza de cuarzo.
CP13 Maldonado, Jesús Towards a comprehensive view of planet formation: The role of the host star's metallicity
CP14 Martínez Rodríguez, Héctor Exomoons in the habitable zones of M dwarfs
CP15 Millán Verdú, Carlos Use of a QCMB to measure the diffusion coefficients and desorption of volatiles in ices of astrophysical interest
CP16 Ordóñez Etxeberria, Iñaki Caracterización de una tormenta de polvo en Marte con medidas in situ obtenidas por REMS en el Mars Science Laboratory y datos orbitales con MARCI/MRO
CP17 Parro, Laura M. Local heat flow and subsurface temperature in InSight landing-site
CP18 Parro, Laura M. Marte: Evolución térmica y estructura de su corteza
CP19 Pozuelos Romero, Francisco José Dinámica del Sistema Planetario GJ 273
CP20 Rivas Dorado, Samuel Possible dike systems in Elysium Planitia (Mars); reducing the knowledge gap
CP21 Serrano, Luisa María Detecting the RM effect in presence of stellar differential rotation
CP22 Toledo Padrón, Borja Spectroscopic time series of activity indicators of the Barnard's Star

INSTRUMENTACIÓN Y SUPERCOMPUTACIÓN / INSTRUMENTATION AND SUPERCOMPUTATION

- IS1 Blanco, José Manuel DEAVI: Dynamic Evolution Added Value Interface
IS2 Cardiel, Nicolás Reducing EMIR spectroscopic data with Python
IS3 Colomer, Francisco What can VLBI do for your research? The EVN and JIVE.
IS4 Lewis, Jim The WEAVE Core Processing System at CASU
IS5 Manteiga Outeiro, Minia Object classification in big astronomical surveys by self-organizing maps. Application to the Alhambra survey
IS6 Peralta de Arriba, Luis The WEAVE Quick-Look GUI
IS7 Ribas Rubio, Salvador José Interaction of clouds and fog with the measure of Night Sky Brightness (in dark and not so dark locations)
IS8 Rodón Ortiz, José Ramón AsteroModelGenerator: Creating your asteroseismic models and publish them in the Virtual Observatory.
IS9 Rodríguez Coira de la Peña, Gustavo GRAVITY: Reaching out to SgrA* with VLTI

FÍSICA SOLAR / SOLAR PHYSICS

- FS1 Blanco Rodríguez, Julián SOPHISM: instrument simulation software
FS2 Carbonell Huguet, Marc Alfven Waves in a partially ionized two-fluid plasma

ENSEÑANZA Y DIVULGACIÓN / TEACHING AND OUTREACH

- ED1 Benítez Herrera, Sandra El proyecto "Chicas en el Museo": promoviendo la igualdad de género en la ciencia en espacios de educación no-formal.
ED2 Buitrago, Fernando Studying Astronomy in Portugal and the IA, the best choice for your future career
ED3 Corral-Santana, Jesús M. ESO opportunities for early career scientists
ED4 de Burgos Sierra, Abel Los telescopios de la iniciativa CESAR de la Agencia Espacial Europea
ED5 Del Puerto Varela, Carmen Graffiti para Henrietta Leavitt. Murales de arte callejero en los municipios tinerfeños de Tacoronte y La Laguna
ED6 García Sánchez-Carnerero, Lucía Nixnox
ED7 Hernández Bernal, Jorge Observando el movimiento de los satélites principales de Saturno, Urano y Neptuno: Una práctica de astrodinámica
ED8 Martín Mesonero, Óscar "Euphoria" Under the shadow
ED9 Millán Irigoyen, Iker Observatorio Astronómico de la UAM: Proceso de rehabilitación
ED10 Negro, Cristina Exposición "Un troc de cel" (Trozo de cielo)
ED11 Pallé, Pere L. Nuevas estrategias para la enseñanza de la Astronomía en la Educación Secundaria Obligatoria
ED12 Pallé, Pere L. Resultados del taller "¿Y si Kepler hubiera sido del Atleti?
ED13 Retrê, João When Future Scientists Communicate Science
ED14 Rodriguez Baras, Marina Observatorio Astronómico de la UAM: Impacto social de actividades
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ED16 Ulla Miguel, Ana Inclusión de aspectos docentes de la astronomía en grados científico-técnicos. Casos de estudio y ejemplo.