



**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
- ANULADO** **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 procesamiento de datos
- GC7** **Agís 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** **Bellocchi, Enrica** Characterizing the ionized outflows in optically obscured quasars at  $z=0-4$
- 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  $z=2-5$
- 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
- GC39** **Matute, Israel** Searching for the first Radio Galaxies
- 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
- GC43** **Nieves Seoane, Lorena** Función de correlación del catálogo Ks de ALHAMBRA
- 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
- GC46** **Pappalardo, Ciro** Star-dust interplay in late type galaxies at  $z < 0.5$
- 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
- GC50** **Pérez Montero, Enrique** Towards a solid determination of the chemical properties of high-z star-forming galaxies using UV lines
- GC51** **Reina Conde, Alejandro** AMS: Carbon flux time variation
- GC52** **Roca Fábrega, Santi** O VI in the CGM: Dependence on  $z$  and galaxy mass
- GC53** **Rodríguez Baras, Marina** Inner and outer star forming regions over the disks of spiral galaxies
- GC54** **Rodríguez Monroy, Martín** Exploring galaxy clustering with the Dark Energy Survey dataset
- GC55** **Ros Ibarra, Eduardo** mm-VLBI observations of Active Galactic Nuclei
- GC56** **Sagun, Violetta** Constraints on the dark matter core inside the neutron stars
- GC57** **Sánchez-Blázquez, Patricia** The TIMER Project (Time Inference with MUSE in Extragalactic Rings)
- GC58** **Spinoso, Daniele** Black Hole seeding in the L-Galaxies semi-analytical model
- GC59** **Spinoso, 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  $z=0.3-0.4$ .
- GC62** **Urdampilleta Aldama, Igone** X-ray study of the double radio relic Abell 3376 with Suzaku
- GC63** **Valcín, David** Bias emulator for next generation precision surveys
- GC64** **Vega García, Laura** Multifrequency analysis of the jet in 0836+710
- GC65** **Vega García, Laura** Numerical analysis of the observed instabilities in the jet of 0836+710
- GC66** **Vives Arias, Héctor** High-resolution imaging of the multiphase AGN-driven outflow of NGC1068

# VÍA LÁCTEA Y SUS COMPONENTES / MILKY WAY AND ITS COMPONENTS

- Gaia-VL1** **Balaguer Núñez, Lola** Open Clusters Membership by Clusterix 2.0 for Gaia DR2
- Gaia-VL2** **Cantat Gaudin, Tristán** The Open Cluster population seen by Gaia
- Gaia-VL3** **Figueras, Francesca** Dynamical ages of the Young Local Associations with Gaia
- Gaia-VL4** **Figueras, Francesca** The Spanish Network for Gaia Science Exploitation and the Second Data Release
- Gaia-VL5** **Jiménez Esteban, Francisco Manuel** The Pleiades as seen by Tycho-Gaia Astrometric Solution and the Virtual Observatory
- Gaia-VL6** **Jordi, Carme** The OCCASO open clusters revisited with Gaia data
- Gaia-VL7** **Maíz Apellániz, Jesús** ¿Qué nos puede decir Gaia sobre las estrellas masivas?
- Gaia-VL8** **Montes Gutiérrez, David** Late-type stars members of young stellar kinematic groups after Gaia-DR2
- Gaia-VL9** **Romero-Gómez, Mercè** The Galactic warp signature as detected by Gaia DR2
- Gaia-VL10** **Vioque de Lózar, 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, Cristóbal** 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 WEAWE
- 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 Guil, 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
- VL31** **Herrero Bermúdez, Álvaro** Dark matter driven conversion of neutron stars into quark stars
- VL32** **Iglesias-Marzoa, Ramón** Physical parameters of the low-mass eclipsing binary NSVS 10653195
- VL33** **Jiménez Ibarra, Felipe** The vertical structure of the accretion disc in LMXBs
- VL34** **Jones, David** El baile estelar más largo en una nebulosa planetaria
- VL35** **Labarga Ávalos, Fernando** iSTARMOD: a Python code to quantify the chromospheric activity of FGKM stars using the spectral subtraction technique
- VL36** **Lares Martiz, Mariel** Direct Deconvolution: a method to minimize the effects of the observational window on power spectra
- VL37** **Lillo-Box, Jorge** TROY - The search for exotrojan planets
- VL38** **Llorente de Andres, Félix** Dependency analysis of stellar Li depletion in the presence of planets
- VL39** **López Martínez, Fátima** Analysis of the physical properties of jets/outflows in T Tauri stars
- VL40** **Lorenzo Gutiérrez, Antonio** GALANTE: 11 bands photometry of Cyg OB2
- VL41** **Maíz Apellániz, Jesús** Una biblioteca de espectros de alta resolución de estrellas masivas
- VL42** **Manchado, Arturo** GTC/CanariCam narrow-band Imaging of the Fullerene-rich Planetary Nebula IC 418
- VL43** **Manjavacas, Elena** Cloud Atlas: Discovery of Rotational Spectral Modulations in a Low-mass, L-type Brown Dwarf Companion to a Star
- VL44** **Mata Sanchez, Daniel** The 1989 and 2015 outbursts of V404 Cygni: a global study of spectroscopic optical features
- VL45** **Mendigutía, Ignacio** Linking young stars, clouds, and galaxies through stellar accretion rates
- VL46** **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
- VL47** **Mor, Roger** Decoding the local star formation scenario with the Besançon Galaxy Model
- VL48** **Negueruela, Ignacio** A new classification scheme for B-type stars
- VL49** **Nogueras Lara, Francisco** A new infrared view of the Galactic Centre. The GALACTICNUCLEUS survey
- ANULADO VL50** **Pajuelo Polo, Pablo** Equation of state for neutron star outer crusts
- VL51** **Pascual Granado, Javier** Detection of Flares in A-type stars using Bayesian Blocks and Superresolution techniques
- VL52** **Pérez Blanco, Alice G. Yumiri** Clustering properties of Herbig Ae/Be stars
- VL53** **Pérez Mesa, Víctor** Circumstellar effects on the Li and Ca abundances in massive Galactic O-rich AGB stars
- VL54** **Rodes Roca, José** Joaquín Discussing the nature of three BeXRBs through infrared spectroscopy
- VL55** **Rodrigo Blanco, Carlos** Spanish Virtual Observatory Discovery Tool
- VL56** **Rodrigo Blanco, Carlos** VOSA: A Virtual Observatory tool to estimate physical parameters of stellar objects from SED fitting
- VL57** **Rodríguez Berlanas, Sara** Disentangling the internal structure of Cygnus OB2 using Gaia-DR2 data
- VL58** **Sagun, Violetta** Realistic equation of state for neutron stars interior consistent with heavy-ion collision data
- VL59** **Sánchez, Néstor** Determining the radius of an open cluster from stellar proper motions
- VL60** **Sánchez Contreras, Carmen** The intricate nebular architecture of "The Rotten Egg" disclosed by ALMA
- ANULADO VL61** **Solano Márquez, Enrique** A catalogue of binary and multiple stars from TGAS and the Virtual Observatory
- VL62** **Solano Márquez, Enrique** Identification of ultracool dwarfs in ALHAMBRA and COSMOS fields
- VL63** **Stoev, Hristo** A catalogue of variable stars in the near-infrared from the WFCAM Transit Survey
- VL64** **Suárez Mascareño, Alejandro** Magnetic cycles and rotation in late type stars
- VL65** **Suárez Yanes, Juan Carlos** The entropy of stellar oscillations
- VL66** **Torné, Pablo** Pulsar observations at the highest radio frequencies
- VL67** **Torné, Pablo** Searching for pulsars around Sgr A\* at radio wavelengths
- VL68** **Trigueros Páez, Emilio** A Systematic Study of Northern O-type Binaries
- VL69** **Ustamujic, Sabina** Constraining the structure of X-ray emitting jets close to the launching site
- VL70** **Vara Lubiano, Mónica** Mapping the Owl Nebula
- VL71** **Vázquez Ramió, Héctor** Identification of RR Lyrae stars in the Javalambre Photometric Local Universe

## 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 Badia, 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 QCM 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** Alfvén 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 tros 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 **Retré, João** When Future Scientists Communicate Science
- ED14 **Rodríguez Baras, Marina** Observatorio Astronómico de la UAM: Impacto social de actividades
- ED15 **Sabater, José** Radio-astronomy projects for university students.
- ED16 **Ulla Miguel, Ana** Inclusión de aspectos docentes de la astronomía en grados científico-técnicos. Casos de estudio y ejemplo.