

14 de junio – 31 de octubre: Exposición “Con A de Astrónomas”, Colegio Anaya.

Viernes 13 de julio, 20:00 Charla divulgativa de Inés Rodríguez Hidalgo, ‘O sole mio. Una invitación musical a la física solar. Casino de Salamanca

Domingo 15 de julio, 20:00-21:30. Cóctel de bienvenida. Jardín de la Facultad de Matemáticas

Lunes 16	Martes 17	Miércoles 18	Jueves 19	Viernes 20
9:00– 10:15 <b>HOSPEDERÍA FONSECA</b>  Registro y café de bienvenida	9:00 – 11:00 Paralelas  GC2 VL2 ED1 IS2 S1 S2 S3 S4	9:00 – 11:00 Paralelas  GC4 VL4 FS2 CP3 S1 S2 S3 S4	9:00 – 11:00 Paralelas  GC6 VL6 ED3 CP4 S1 S2 S3 S4	9:00 -11:00 Paralelas  GC7 VL7 IS4 ED4 S1 S2 S3 S4
10:30 - 13:30  Sesión inaugural  <b>PARANINFO HISTÓRICO</b>  Mesa redonda con los gestores de los PNs, RIA, RRHH Astronomía española  Premios SEA	11:00 - 11:30  Café  11:30-13:30 S1 Plenaria  Science and collaborations Spain/Portugal	11:00 - 11:30  Café  11:30-13:30 S1 Plenaria  Gravitational waves	11:00 - 11:30  Café  11:30-13:30 S1 Plenaria  High resolution imaging	11:00 - 11:30  Café  11:30-13:30 S1 Plenaria  Science / Instrumentation
13:30 - 15:30 Comida	13:30 - 15:30 Comida S1 RG Comida con astrónomas S2 RG J-PLUS	13:30 - 15:30 Comida S2 RG Ciencias Planetarias	13:30 - 15:30 Comida S1 RG Pro-Am S2 RG OTELO	11:30-15:30 S2 RG RAVET
15:30 - 17:30 Paralelas  GC1 VL1 IS1 CP1 S1 S2 S3 S4	15:30 – 17:30 Paralelas  GC3 VL3 FS1 CP2 S1 S2 S3 S4	15:30 – 17:30 Paralelas  GC5 VL5 IS3 ED2 S1 S2 S3 S4	15:30 - 17:10 S1 Plenaria  Divulgación y enseñanza de la astronomía	
17:30 - 18:00 Café	17:30 - 18:00 Café	17:30 - 18:00 Café	17:10 - 17:40 Café	
18:00 - 19:40 S1 Plenaria  Gaia	18:00 - 19:30 S1 Plenaria  Athena and synergies	18:00 - 20:00 S1 Plenaria Science / Instrumentation	17:40 - 20:00 S1 Asamblea General SEA	
20:15  S4 Conferencia pública Juan A. Belmonte	7:15-8:15 Corre SEA, corre  20:15 S1 Astroconcierto (I) 22:30 Astroconcierto (II)	10:30-12:00 Observación pública con telescopios. Exterior Hospedería  20:15 S4 Conferencia pública Gabriela González	21:00  Cena de la XIII Reunión Científica Hotel Alameda Palace Paseo de la Estación, 1	22:00  Observación pública con telescopios Plaza Mayor (a confirmar)

Sesiones paralelas: GC: Galaxias y Cosmología, VL: Vía Láctea y sus componentes, CP: Ciencias Planetarias, IS: Instrumentación y supercomputación, FS: Física solar, DE: Divulgación y Enseñanza, RG: Reunión de grupo

**Salas**

**S1:** Auditorio, Hospedería Fonseca

**S3:** Aula 1.2, Hospedería Fonseca

**S2:** Sala Menor, Hospedería Fonseca

**S4:** Salón de Actos, Colegio Fonseca (edificio adyacente a la Hospedería)

**LUNES 16 DE JULIO**

**HOSPEDERÍA FONSECA 9:00-10:15 CAFÉ DE BIENVENIDA Y REGISTRO**



**PARANINFO SESIÓN INAUGURAL Y PREMIOS TESIS SEA**

**Modera: Benjamín Montesinos**

10:30-11:00	<b>Apertura y bienvenida</b>
11:00-11.20	<b>Miguel Querejeta Pérez, Premio 2016, Astronomía y Astrofísica</b> Making galaxies passive: Insights from resolved studies of nearby galaxies
11:20-11:40	<b>Ignacio Mateos Martín, Premio 2015-2016, Instrumentación</b> Design and assessment of a low-frequency magnetic measurement system for eLISA
11:40-12.00	<b>Laura Sánchez Menguiano, Premio 2017, Astronomía y Astrofísica</b> The shape of the ionised gas abundance distribution in spiral galaxies
<b>Pausa 12:00 - 12:15</b>	
12:15-13:30	<b>Mesa redonda: Gestores de los Planes Nacionales, Coordinador, RIA, Informe SEA RRHH</b>

**COMIDA 13:30 - 15:30**

**LAS SESIONES DEL LUNES POR LA TARDE Y DE LOS DEMÁS DÍAS DE LA REUNIÓN SE CELEBRAN EN EL COLEGIO ARZOBISPO FONSECA Y EN LA HOSPEDERÍA DEL COLEGIO**

**S1 Galaxias y Cosmología (GC1)**

**Modera: Vicent Quilis**

15:30	<b>Mar Mezcua</b> Observational evidence for intermediate-mass black holes (invitada)
16:00	<b>Montserrat Villar Martín</b> The exotic emission line spectra of extremely red BOSS quasars
16.15	<b>Ignasi Pérez Ràfols</b> Quasar identification and redshift estimation with SQUEZE
16:30	<b>Naím Ramírez Olivencia</b> Sub-arcsecond imaging of Arp 299-A at 150 MHz with LOFAR: Evidence for a starburst-driven outflow
16:45	<b>Ignacio Martín-Navarro</b> Black holes and the stellar population properties of galaxies
17:00	<b>Ignacio Sevilla Noarbe</b> The Dark Energy Survey project and Data Release 1
17:15	<b>PÓSTERES (1-14)</b>

**S2 Vía Láctea y sus componentes (VL1)**

**Modera: Amparo Marco**

15:30	<b>Domingo Aníbal García-Hernández</b> Fullerene and graphene molecular nanostructures in evolved stars (invitada)
16:00	<b>Ricardo Dorda Laforet</b> Investigating the true nature of the red hypergiants
16.15	<b>Friedrich Anders</b> Chemodynamics of the Milky Way - The Gaia+APOGEE picture
16:30	<b>Pep Covas Vidal</b> All-sky searches of continuous gravitational waves from neutron stars
16:45	<b>María Luisa García Vargas</b> MEGARA Early-Science results: The spectral library for MEGARA-GTC
17:00	<b>Francisco Colomer</b> What can VLBI do for your research? The EVN and JIVE
17:15	<b>PÓSTERES (1-18)</b>

**S3 Instrumentación y supercomputación (IS1)**

Modera: Nicolás Cardiel

15:30	<b>Tjarda Boekholt</b> Accurate and precise N-body simulations (charla invitada)
16:00	<b>Antoni Ramos Buades</b> Calibration of Black Hole Binary Numerical Relativity simulations
16:15	<b>Sergio Soria Nieto</b> Big data framework for Gaia archive
16.30	<b>Javier Castañeda</b> Gaia source list evolution: GDR2 and beyond
16:45	<b>Ferran Torra Clotet</b> Proper motion and other challenges in cross-matching Gaia observations
17:00	<b>Josep Manel Carrasco Martínez</b> Astrophysical information combining JPLUS and Gaia surveys
17:15	<b>PÓSTERES (1-9)</b>

**S4 Ciencias Planetarias (CP1)**

Modera: Santiago Pérez-Hoyos

15:30	<b>Alejandro Cardesin-Moinelo</b> De Mars Express a ExoMars: Dos misiones trabajando juntas en torno a Marte
15:45	<b>Alejandro de Cabo</b> Prediction of Mars meteorological variables using artificial neural networks
16:00	<b>Gabriella Gilli</b> The puzzling transition region of Venus atmosphere studied by ground to thermosphere 3D model
16.15	<b>Ruben Gonçalves</b> Akatsuki (cloud-tracking) and TNG/HARPS-N (Doppler velocimetry) coordinated wind measurements of cloud top Venus atmosphere
16:30	<b>José Silva</b> Characterising Atmospheric Gravity Waves on the lower and upper cloud bank using Venus Express VMC and VIRTIS images
16:45	<b>José Francisco Sanz Requena</b> Nieblas y nubes en un triple vórtice de larga duración en la atmósfera polar de Saturno
17:00	<b>Miguel G. S. Silva</b> Saturn atmosphere's dynamics with VLT/UVES high-resolution spectroscopy and cloud tracked winds from CASSINI/VIMS observations
17:15	<b>PÓSTERES (1-7)</b>

CAFÉ 17:30 - 18:00

**S1 PLENARIA: GAIA**

Modera: Francesca Figueras

18:00	<b>Xavier Luri</b> Gaia DR2
18:20	<b>Alcione Mora</b> DR2: Results, validation, data exploitation
18:40	<b>Amina Helmi</b> New views on the Galaxy and its satellites from Gaia
19:10	<b>Julia de León</b> Synergies between Gaia and Asteroids

**PROGRAMA SOCIAL**

20:15 CONFERENCIA PÚBLICA

CSI Nefertiti: Astronomía, Genética y Egiptología

Juan Antonio Belmonte (Instituto de Astrofísica de Canarias)

**S4** Salón de Actos, Colegio Fonseca

**MARTES 17 DE JULIO****S1 Galaxias y Cosmología (GC2)**

Modera: Raffaella Marino

9:00	<b>Cárlos López Sanjuan</b> J-PLUS DR1: 1000 squared degrees in twelve optical bands (invitada)
9:30	<b>Rubén García-Benito</b> Spatially-resolved color--mass-to-light ratio relations in the CALIFA survey
9:45	<b>Bruno Rodríguez del Pino</b> Incidence and properties of ionized outflows in MaNGA DR2 galaxies
10:00	<b>Katarzyna Bensch</b> The role of photoionization models of HII regions of dwarf galaxies in understanding galaxy evolution
10:15	<b>Patricia Sánchez-Blázquez</b> Gas and stellar metallicity gradients in face-on disk galaxies
10:30	<b>Susana Planelles</b> Multi-frequency synthetic observations (of the WHIM) in a simulated galaxy cluster
10:45	<b>PÓSTERES (15-28)</b>

**S2 Vía Láctea y sus componentes (VL2)**

Modera: Izaskun Jiménez-Serra

9:00	<b>Jorge Lillo-Box</b> TROY - The search for exotrojan planets (invitada)
9:30	<b>Ignacio Mendigutía</b> Detecting signatures of planet formation in disks around young stars
9:45	<b>Héctor Cánovas</b> Photoevaporation in transitional disks
10:00	<b>Álvaro Ribas</b> Protoplanetary disks meet artificial neural networks
10:15	<b>Patricia Chinchilla</b> Search for common proper motion wide substellar companions to young nearby stars with Vista Hemisphere Survey
10:30	<b>Jonay I. González Hernández</b> The two most iron-poor dwarf stars known in the Galactic halo
10:45	<b>PÓSTERES (19-36)</b>

**S3 Enseñanza y divulgación (ED1)**

Modera: Amelia Ortiz

9:00	<b>Joao Retrê</b> Living Astronomy in Portugal (charla invitada)
9:30	<b>Ana Alves</b> IAstro Júnior: Astronomy for the Youngest
9:45	<b>Sérgio Pereira</b> Ignite IAstro: Sharing Astronomical research in remote locations
10:00	<b>Jorge Rivero González</b> IAU100: Uniting our World to Explore the Universe
10:15	<b>Natalia Ruiz Zelmanovitch</b> Cuando la astroquímica es un viaje
10:30	<b>María Teresa Ceballos</b> De la escuela al espacio: experiencia de divulgación astronómica en IFCA
10:45	<b>PÓSTERES (1-8)</b>

**S4 Instrumentación y supercomputación (IS2)**

Modera: José Antonio Font

9:00	<b>Francisco Garzón</b> First results of EMIR (charla invitada)
9:30	<b>Antonio Cabrera-Lavers</b> 10 years of GTC - GTC Science Operations Status
9:45	<b>Víctor J. Sánchez Béjar</b> The GTC Adaptive Optics system: the high spatial resolution Adaptive Optics facility at GTC
10:00	<b>Enrique Solano Márquez</b> The Gran Telescopio Canarias Archive
10:15	<b>Jesús Aceituno Castro</b> Calar Alto observatory, present and future projects
10:30	<b>Gilles Bergong</b> Recent scientific results and future instruments at the Calar Alto Observatory
10:45	<b>Carsten Kramer</b> The IRAM 30m Telescope

CAFÉ 11:00 - 11:30



**S1** PLENARIA: ASTRONOMY IN PORTUGAL/  
COLLABORATIONS PORTUGAL-SPAIN

Modera: Fernando Buitrago

11:30-11:45	<b>André Moitinho, Francesca Figueras</b> Iberian Astronomy
11:45-12:15	<b>José Manuel Afonso</b> When critical mass catches up to strategy: the road for Portuguese Astronomy
12:15-12:45	<b>Nuno Santos</b> Exoplanets
12:45-13:15	<b>Francisco J. Castander</b> Euclid: ESA cosmology mission

COMIDA 13:30 - 15:30 **S1** COMIDA CON ASTRÓNOMAS **S2** REUNIÓN DE GRUPO J-PLUS

**S1** Galaxias y Cosmología (GC3)

Modera: Montserrat Villar

15:30	<b>Christina Thöne</b> GRB & SN hosts in 3D
15:45	<b>Mónica Vázquez Acosta</b> Studies of the Extragalactic Background Light with the MAGIC telescopes
16:00	<b>Carlos Palenzuela Luque</b> Gravitational waves from compact binary mergers
16:15	<b>Antonio de Ugarte Postigo</b> SN2017iuk: A new standard in the GRB-SN field
16:30	<b>Nicola Bellomo</b> The origin of progenitors in merging black hole binaries
16:45	<b>José Luis Bernal</b> Signatures of primordial black holes as seeds of supermassive black holes
17:00	<b>Miriam Cabero Muller</b> Observational tests of the black hole area increase law
17:15	<b>PÓSTERES (29-42)</b>

**S2** Vía Láctea y sus componentes (VL3)

Modera: Carme Jordi

15:30	<b>Koraljka Muzic</b> The transition from star to planet formation: brown dwarfs in young clusters (invitada)
16:00	<b>Laia Casamiquela</b> Physical properties of evolved Open Clusters in the Gaia era
16:15	<b>Alfred Castro-Ginard</b> Detection of new Open Clusters with Gaia
16:30	<b>Andressa Ferreira</b> Galactic disc populations with the GAIA-ESO Survey
16:45	<b>Hugo Tabernero</b> An effective temperature scale for red supergiants in the Magellanic clouds
17:00	<b>Javier Alonso Santiago</b> Clusters with K Supergiants
17:15	<b>PÓSTERES (37-54)</b>

**S3** Física solar (FS1)

Modera: José Luis Ballester

15:30	<b>Elena Khomenko</b> Three-dimensional simulations of solar magneto-convection including effects of partial ionization (invitada)
16:00	<b>Adur Pastor Yabar</b> Topología magnética del polo norte solar
16:15	<b>Ana Belén Griñón Marín</b> Evolución temporal de puentes de luz
16:30	<b>Andrés Adrover González</b> 3D numerical simulations of oscillations in prominences
16:45	<b>Andrés Asensio Ramos</b> Deep learning in Solar Physics
17:00	<b>Daniel Pacheco</b> A new analysis of near-relativistic electron events measured by the Helios mission
17:15	<b>PÓSTERES (1-2)</b>

**S4** Ciencias planetarias (CP2)

Modera: Julia de León

15:30	<b>Jesús Maldonado</b> Low-mass planets around low-mass stars: Highlights from the HADES survey (invitada)
16:00	<b>Isabel Rebolledo Vázquez</b> The search for Exocomets
16.15	<b>Juan Carlos Vallejo Chavarino</b> El papel de la viscosidad y la radiación EUV en la dispersión de los discos protoplanetarios
16:30	<b>Peio Iñurrigarro</b> Dinámica atmosférica de Júpiter durante la misión Juno: Observaciones desde Tierra y análisis de la Perturbación de la Banda Templada
16:45	<b>Santiago Pérez Hoyos</b> Las bandas cambiantes de Júpiter: el caso de la Banda Templada Norte
17:00	<b>Luisa M. Lara</b> Analysis of the origin of oxygen in Uranus atmosphere
17:15	<b>PÓSTERES (8-14)</b>

CAFÉ 17:30 - 18:00

**IDOM****S1** PLENARIA: ATHENA AND SYNERGIES

Modera: María Teresa Ceballos

18:00	<b>Francisco Carrera</b> Athena: mission and Spanish participation
18:30	<b>María Díaz Trigo</b> Synergies between Athena and ESO
18:50	<b>Marc Ribó</b> CTA-Athena synergies
19:10	<b>Miguel Pérez Torres</b> Synergies between Athena and the Square Kilometre Array

**PROGRAMA SOCIAL**

7:15-8:15 Corre, SEA, corre  
Salida desde el Colegio Mayor Oviedo

**ASTROCONCIERTOS PÚBLICOS**

20:15 Primera parte: Concierto sinfónico  
José Antonio Caballero e intérpretes de la  
Joven Orquesta Sinfónica Ciudad de Salamanca  
**S1** Auditorio, Hospedería Fonseca



22:30 Segunda parte: Concierto rock  
Toseka y grupos de la Universidad de Salamanca  
Lugar: La Espannola (Gran Vía, 51)



**MIÉRCOLES 18 DE JULIO****S1 Galaxias y Cosmología (GC4)**Modera: **Helena Domínguez**

9:00	<b>Ignacio Trujillo</b> Hunting in the darkness: the adventure of unveiling the low surface brightness Universe (invitada)
9:30	<b>Arianna di Cintio</b> Ultra diffuse galaxies: a formation scenario
9:45	<b>Raffaella Anna Marino</b> Dark Galaxy candidates at redshift $\sim 3.5$ detected with MUSE
10:00	<b>Sébastien Comerón</b> The rotation curves of thin and thick discs from local edge-on galaxies as seen with MUSE
10:15	<b>Isabel Santos Santos</b> Understanding the emergence of a plane of satellites around the MW
10:30	<b>Jose Oñorbe</b> What do we know about HI Reionization? New Constraints from the high-z Lyman-alpha Forest
10:45	<b>PÓSTERES (43-56)</b>

**S2 Vía Láctea y sus componentes (VL4)**Modera: **Laia Casamiquela**

9:00	<b>Izaskun Jiménez-Serra</b> Prebiotic chemistry in the ISM: from cold cores to Galactic center clouds (invitada)
9:30	<b>David Navarro Almáida</b> The formation of H <sub>2</sub> S in dark clouds
9:45	<b>Susana Iglesias-Groth</b> Fullerenos y PAHs en el medio interestelar
10:00	<b>Diego de la Fuente</b> Cuando la línea de visión nos engaña: el cúmulo embebido [DB2001] CL05 como caso piloto
10:15	<b>Pedro Palmeirim</b> Star formation and ionized regions in the Inner Galactic Plane
10:30	<b>Amparo Marco</b> How do massive stars form?
10:45	<b>Jesús Maíz Apellániz</b> GALANTE: encontrando las estrellas O+B+WR en todo el plano Galáctico

**S3 Física solar (FS2)**Modera: **Andrés Asensio**

9:00	<b>José Carlos del Toro Iniesta</b> On Fabry-Pérot etalon based instruments: The isotropic case
9:15	<b>David Orozco Suárez</b> On Fabry-Pérot etalon based instruments: The anisotropic case
9:30	<b>José Luis Ballester Mortes</b> The temporal behaviour of MHD waves in a partially ionized prominence-like plasma: Effect of heating and cooling with different radiative loss functions
9:45	<b>Juan Carlos Trelles Arjona</b> Looking for the best strategy to invert the Quiet Sun Stokes profiles
10:00	<b>Manuel Collados Vera</b> Desarrollo y primera luz de una unidad de campo integral para el telescopio GREGOR
10:15	<b>María Montes Solís</b> Inferencia de propiedades físicas de estructura fina de protuberancias
10:30	<b>Roberto Soler</b> Torsional Alfvén waves in the lower solar atmosphere: energy transport and dissipation
10:45	<b>Sergio Toledo Redondo</b> Solar wind - magnetosphere coupling via magnetic reconnection and the effects of ionospheric plasma

**S4 Ciencias planetarias (CP3)**

Modera: Pedro Figueira

9:00	<b>José Luis Ortiz</b> Sorprendentes características del planeta enano Haumea reveladas mediante ocultación estelar (invitada)
9:30	<b>Adriano Campo Bagatín</b> European component of the AIDA mission to a binary asteroid: Characterization and interpretation of the impact of the DART mission
9:45	<b>Juan Luis Rizos García</b> Análisis de grupos espectrales (clustering) sobre la superficie de (1) Ceres en preparación para la misión OSIRIS-REX
10:00	<b>Safoura Tanbakouei</b> UV to far-IR reflectance spectra of carbonaceous chondrites
10:15	<b>Josep Maria Trigo Rodríguez</b> El papel catalítico de las condritas en el enriquecimiento prebiótico de la Tierra
10:30	<b>Ricardo Hueso</b> Pequeños impactos en el planeta gigante Júpiter
10:45	<b>PÓSTERES (15-22)</b>

CAFÉ 11:00 – 11:30

**S1 PLENARIA: GRAVITATIONAL WAVES**

Modera: Carlos Palenzuela

11:30	<b>Gabriela González</b> Ground-based gravitational wave detectors: status and latest observations
12:00	<b>Carlos Sopena</b> LISA: The future space-based gravitational-wave detector
12:30	<b>Sascha Husa</b> Modelling the gravitational wave signal from compact binary coalescence
13:00	<b>Vitor Cardoso</b> Testing General Relativity with gravitational waves

**COMIDA 13:30 - 15:30 S2 REUNIÓN DE GRUPO: CIENCIAS PLANETARIAS Y EXPLORACIÓN DEL SISTEMA SOLAR****S1 Galaxias y Cosmología (GC5)**

Modera: Santi Roca

15:30	<b>Helmut Dannerbauer</b> Witnessing the build-up of distant galaxy clusters in the (sub)millimeter regime (invitada)
16:00	<b>Ana Paulino-Afonso</b> The role of mass and environment in galaxy evolution at $z \sim 1$
16:15	<b>Javier Álvarez-Márquez</b> Panchromatic view of Lyman Break Galaxies at $z \sim 3$
16:30	<b>David Martínez Delgado</b> Stellar Tidal Streams in the local Universe
16:45	<b>Gonzalo Vilella Rojo</b> The Star Formation Rate of the Local Universe with J-PLUS survey Data
17:00	<b>Benito Marcote</b> Unveiling the origin of Fast Radio Bursts by localizing the only repeating source
17.15	<b>PÓSTERES (57-66)</b>



**S2** Vía Láctea y sus componentes (VL5)

Modera: Jesús Maíz-Apellániz

15:30	<b>Javier Alonso-García</b> VVV and VVV-X surveys: unveiling the innermost Galaxy
15:45	<b>Banafsheh Shahzamanian</b> Near-Infrared Observations of Galactic Centre
16:00	<b>Eulalia Gallego Cano</b> The stellar cusp around the Milky Way's central black hole
16:15	<b>Julio Alberto Carballo Bello</b> The origin of the Galactic halo as traced by its globular clusters
16:30	<b>Merce Romero-Gomez</b> The complexity and richness of the Galactic disc velocity field unveiled by Gaia DR2
16:45	<b>Pau Ramos Ramírez</b> Kinematic structure in the Solar Neighborhood and surroundings with Gaia: a vast richness to explore
17:00	<b>César Esteban</b> Improving the determination of Galactic abundance gradients
17:15	<b>Héctor Estellés Estrella</b> Lensed gravitational waves from spinning neutron stars by SgA* and globular clusters

**S3** Instrumentación y supercomputación (IS3)

Modera: José M. Rodríguez-Espinosa

15:30	<b>Joé Antonio Font</b> Numerical relativity simulations of binary neutron star mergers (invitada)
16:00	<b>Daniele Vígano</b> Turbulent MHD and binary mergers
16:15	<b>Ricard Casas Rodríguez</b> Aportación a distintos instrumentos para Cosmología observacional
16:30	<b>Eva Verdugo</b> El archivo final de la misión Herschel
16:45	<b>Jose Sabater</b> New developments for radio-astronomy data intensive infrastructures. From innovative calibration techniques to artificial intelligence.
17:00	<b>Pablo Marcos-Arenal</b> Release of the WSO-UV Software tools to attend the call for the Core Scientific Program
17:15	<b>Héctor Vázquez Ramió</b> Status of the Commissioning of the Pathfinder camera at JST/T250 at the Observatorio Astrofísico de Javalambre

**S4** Enseñanza y divulgación (ED2)

Modera: Emilio J. García

15:30	<b>Juan Antonio Belmonte</b> Astronomía y Patrimonio Mundial: el paradigma ibérico (invitada)
16:00	<b>César Esteban</b> ¿Miraba al cielo la Dama de Elche? La interdisciplinariedad aplicada al estudio de la religión de los antiguos íberos
16:15	<b>Adriana de Lorenzo-Cáceres Rodríguez</b> Charla con una Astrónoma
16:30	<b>Alejandra Rueda Moral</b> Niñas que rompieron un techo de cristal mirando al cielo
16:45	<b>Carmen del Puerto Varela</b> El regreso de Henrietta Leavitt: De la escuela a la carrera investigadora pasando por el teatro
17:00	<b>Manuel González García</b> El enigma Agustina
17:15	<b>PÓSTERES (9-16)</b>

CAFÉ 17:30 - 18:00

**S1** PLENARIA: Science / Instrumentation

Modera: Javier Cenarro

18:00	<b>Agustín Sánchez Lavega</b> The exploration of Jupiter by JUNO and Saturn during Cassini Grand Finale
18:30	<b>Armando Gil de Paz</b> First science with MEGARA
19:00	<b>David Sobral</b> The quest for Pop III stars in early galaxies: Are we there yet?
19:30	<b>María Jesús Martínez González</b> Latest achievements in Solar Physics

## PROGRAMA SOCIAL

10:30-12:00: OBSERVACIÓN PÚBLICA CON TELESCOPIOS  
Exterior de la Hospedería Fonseca



**ASTRONOMÍA**



20:15: CONFERENCIA PÚBLICA  
Einstein, agujeros negros y ondas gravitacionales  
Gabriela González (Louisiana State University)  
**S4** Salón de Actos, Colegio Fonseca

**IDOM**

**JUEVES 19 DE JULIO****S1 Galaxias y Cosmología (GC6)**

Modera: Jordi Cepa

9:00	<b>Ángel Bongiovanni</b> The OTELO survey (invitada)
9:30	<b>Antonio Ferragamo</b> Sunyaev-Zeldovich vs dynamical masses. Scaling relations using optical follow-up of Planck SZ sources
9:45	<b>Jesús Vega Ferrero</b> The Hubble Constant from SN Refsdal
10:00	<b>Ricardo Génova Santos</b> High-significance detection of the relativistic Sunyaev-Zel'dovich effect using Planck data
10:15	<b>Oliver Díaz Rodríguez</b> Calibrating the galaxy color redshift relation for Euclid and mapping the star formation main sequence
10:30	<b>Miguel Pérez Torres</b> A dust-enshrouded tidal disruption event with a resolved radio jet in a galaxy merger
10:45	<b>Carlos Hernandez Monteagudo</b> Angular Redshift Fluctuations: A New Cosmological Probe

**S2 Vía Láctea y sus componentes (VL6)**

Modera: Banafsheh Shahzamanian

9:00	<b>Manuel Linares</b> A 2.3 solar-mass neutron star
9:15	<b>Josep Martí Ribas</b> The first winged microquasar
9:30	<b>Montserrat Armas Padilla</b> Broad-band X-ray analysis of neutron star X-ray binaries
9:45	<b>Teo Muñoz-Darias</b> Wind outflows from accreting stellar-mass black holes
10:00	<b>Alicia Rouco Escorial</b> An insight into the low level accretion in Be/X-ray transients
10:15	<b>Julia Alfonso-Garzón</b> Optical and X-ray observations of the microquasar V 404 Cyg during its June 2015 outburst
10:30	<b>Antonia Morales-Garoffolo</b> On the Nature of OGLE-2013-SN-100: A Peculiar Optical Transient with a Double-Peaked Light Curve and Stripped-Envelope Supernova Spectra
10:45	<b>PÓSTERES (55-71 ) en lugar de la charla programa inicialmente a las 9:45por Jesús M. Corral-Santana</b> Long-term study of MAXI J1659-152: the black hole with the shortest orbital period

**S3 Enseñanza y divulgación (ED3)**

Modera: Adriana de Lorenzo-Cáceres

9:00	<b>Emilio José García Gómez-Caro</b> El puzzle marciano (invitada)
9:30	<b>Amelia Ortiz-Gil</b> Viaje táctil por el Sistema Solar: Venus
9:45	<b>Enrique Pérez Montero</b> Astroaccesible: Ampliando los límites de la inclusividad en astronomía
10:00	<b>José Antonio Caballero</b> AstroArte
10:15	<b>Montserrat Villar Martin</b> Cultura con C de Cosmos
10:30	<b>Eduard Masana Fresno</b> Actividades de divulgación de la misión Gaia

**S4 Ciencias planetarias (CP4)**

Modera: Luisa Lara

9:00	<b>Pedro Figueira</b> The ESO exoplanet-hunting spectrographs (invitada)
9:30	<b>Alejandro Suárez Mascareño</b> The RoPES project with HARPS and HARPS-N: A system of super-Earths around HD 176986 and future prospects
9:45	<b>David Nespral</b> Ground-based characterization of transiting exoplanets
10:00	<b>Elisa Delgado Mena</b> Can we really detect planets around evolved massive stars?
10:15	<b>Luisa Maria Serrano</b> Estimating the albedo of the exoplanets in presence of stellar activity
10:30	<b>CANCELADA Lucía Suárez-Andrés</b> Refractory element abundances in metal-poor stars with planets
10:45	<b>Eva Villaver</b> The end fates of Planetary Systems

CAFÉ 11:00 - 11:30



**S1** PLENARIA: NEW DEVELOPMENTS IN HIGH RESOLUTION IMAGING

Modera: Koraljka Muzic

11:30	<b>Itziar de Gregorio Monsalvo</b> ALMA: Science with exceptional submillimeter capabilities
12:00	<b>Shep Doeleman</b> The Event Horizon Telescope: Science at the Black Hole Boundary
12:30	<b>António Amorim</b> PT@GRAVITY: The infrared Camera, the software, the observations
13:00	<b>José Luis Gómez</b> Probing the innermost regions of blazar jets at tens of microarcseconds through space and millimeter VLBI observations

COMIDA 13:30 – 15:30: **S1** REUNIÓN DE GRUPO: PRO-AM

**S2** REUNIÓN DE GRUPO: TALLER EXPLOTACIÓN OTELO

**S1** PLENARIA: ENSEÑANZA Y DIVULGACIÓN DE LA ASTRONOMÍA

Modera: Natalia Ruiz Zelmanovitch

15:30	<b>I Premio Javier Gorosabel de colaboración ProAm</b>
15:45	<b>Vicent Martínez</b> Historia de la divulgación de la Astronomía (del siglo XVI al siglo XX)
16:05	<b>Inés Rodríguez Hidalgo</b> Que se quede el infinito sin estrellas. Difusión de la Astronomía desde los museos de ciencia y planetarios
16:25	<b>Angel R. López Sánchez</b> Redes sociales, blogs, podcasts y divulgación "virtual"
16:45	<b>Carmen del Puerto</b> La Astronomía y las UCCs. Casos de éxito en comunicación y divulgación científica
17:05	<b>Juan Ángel Vaquerizo</b> La enseñanza de la astronomía en los centros educativos

CAFÉ 17:25-17:50



**S1** 17:50 - 20:00 ASAMBLEA GENERAL DE LA SEA

**PROGRAMA SOCIAL**

21:00 **CENA DE LA REUNIÓN CIENTÍFICA**  
Hotel Alameda Palace  
Paseo de la Estación, 1



**IDOM**

**VIERNES 20 DE JULIO****S1 Galaxias y Cosmología (GC7)**

Modera: Hugo Messias

9:00	<b>Sandra Nogueira dos Reis</b> Deep imaging of the most massive galaxies of the nearby Universe
9:15	<b>Belén Alcalde Pampliega</b> Extremely Red Masive Galaxies in the early Universe: mid-infrared bright sources at $z>3$
9:30	<b>Luis Alberto Díaz García</b> Correlations between the size and the stellar population properties of quiescent galaxies
9:45	<b>Carlos Gómez-Guijarro</b> Starburst to quiescent from HST/ALMA
10:00	<b>Panos Sklias</b> Spatially resolved 2D analysis of $z\sim 2$ massive star-forming galaxies with HST and ALMA
10:15	<b>Jakub Nadolny</b> The OTELO survey as morphological probe of galaxy evolution in the last 10 Gyr
10:30	<b>Ángela García Argumánez</b> Self-consistent spatially-resolved star formation histories of $1<z<3$ galaxies from CANDELS
10:45	<b>Alexandre Vazdekis</b> Abundance ratios and IMF in massive early-type galaxies

**S2 Vía Láctea y sus componentes (VL7)**

Modera: Laura Toribio

9:00	<b>David Jones</b> Estrellas binarias centrales de nebulosas planetarias
9:15	<b>Miguel Santander-García</b> The missing mass conundrum of post-common-envelope planetary nebulae
9:30	<b>Elena Manjavacas</b> Cloud Atlas: HST/WFC3 library spectra of brown dwarfs, low-mass companions and hot Jupiters
9:45	<b>Pedro Sarmento</b> iSpec as a new method for spectroscopic parameter determination in the H-band
10:00	<b>Zaira Berdiñas</b> Do M dwarfs pulsate? The search with the Beating Red Dots project using HARPS
10:15	<b>Pere L. Pallé</b> High precision radial velocity and continuous long-term monitoring of Arcturus with the Hertzsprung SONG echelle-spectrograph
10:30	<b>Antonio García Hernández</b> Precise surface gravities of A-type stars from asteroseismology
10:45	<b>Laura María Sampedro Hernández</b> A new methodology to calibrate the new generation of wide-field multi-band photometric surveys

**S3 Instrumentación y supercomputación (IS4)**

Modera: Jesús Aceituno

9:00	<b>Héctor Linares Arroyo</b> First Night Sky Modelling of Montsec protected area and its light pollution sources
9:15	<b>Jaime Zamorano</b> Monitorización del brillo de cielo nocturno en España
9:30	<b>Antonio Carlos López Jiménez</b> De IMaX a SOPHI y viceversa
9:45	<b>Javier Piqueras López</b> CAB contribution ELT-HARMONI: update after the PDR
10:00	<b>Alex Oscoz</b> Space developments at IACTEC
10:15	<b>Tomás Belenguer</b> Micróptica para la exploración planetaria: nuevos retos en la instrumentación espacial
10:30	<b>José Luis Gálvez</b> A wide field monitor (WFM) based on the LOFT ESA (M3) proposal for the new-generation X-ray missions eXTP (China) and STROBE-X (NASA)

**S4** Enseñanza y divulgación (ED4)

Modera: Joao Retrê

9:00	<b>Beatriz González García</b> La iniciativa CESAR
9:15	<b>Nayra Rodríguez Eugenio</b> PETeR: ciencia desde el cole con telescopios profesionales
9:30	<b>Sandra Benítez Herrera</b> CosmoLAB: La Astronomía como laboratorio en el aula
9:45	<b>Sandra Zamora Arenal</b> Observatorio Astronómico de la UAM: Astronomía ciudadana en la Comunidad de Madrid
10:00	<b>Laura M. Parro</b> Viajando por planetas en la Semana de la Ciencia: Un proyecto de divulgación de las Ciencias Planetarias
10:15	<b>Vicent Martínez-Badenes</b> El Máster en Astronomía de la Universidad Internacional de Valencia: la experiencia de un modelo pionero
10:30	<b>Carlos Morales Socorro</b> Astronomía en el aula de Matemáticas: desde GSC 03224-01689 y TYC 3224-2619-1 a AstroPI Challenge 2017-2018

CAFÉ 11:00-11:30

**S1** PLENARIA

Modera: Vicent Martínez

11:30	<b>Consuelo Cid</b> Space weather: Understanding the Sun-Earth interaction
12:00	<b>Pedro Amado</b> CARMENES scientific results
12:30	<b>José Alberto Rubiño Martín</b> Cosmology with the CMB: Latest results from PLANCK and the QUIJOTE experiment
13:00	<b>Rita Tojeiro</b> Large scale structure

11:30-15:30: **S2** REUNIÓN DE GRUPO RAVET**PROGRAMA SOCIAL**

22:00: OBSERVACIÓN PÚBLICA CON TELESCOPIOS  
Plaza Mayor (por confirmar)



# Relación de pósteres

## GALAXIAS Y COSMOLOGÍA

- 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  $z \sim 0.4$
- 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
- 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  $z \sim 0.3-0.4$ .

- 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

- 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, 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 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 GalacticO-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

- 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 QCMB to measure the diffusion coefficients and desorption of volatiles in ices of astro physical 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

- 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

**FS1 Blanco Rodríguez, Julián** SOPHISM: instrument simulation software

**FS2 Carbonell Huguet, Marc** Alfvén Waves in a partially ionized two-fluid plasma

## ENSEÑANZA Y DIVULGACIÓN

**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 Retrê, 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.