REUNIÓN CIENTÍFICA DE LA SEA 2022 5-9 SEPTIEMBRE 2022 TENERIFE PROGRAMA GENERAL

Lunes 5/9/2022	Martes 6/9/2022	Miércoles 7/9/2022	Jueves 8/9/2022	Viernes 9/9/2022
8:30 **Registro y café de bienvenida**	9:00 – 11:00 **Paralelas** **G1 VL1 EDP1 CP1 FS1**	9:00 – 11:00 **Paralelas** **G3 VL3 IS2 CP3 FS2 CA2**	9:00 – 11:00 **Paralelas** **G4 VL4 IS3 CP4 CA3**	9:00 -11:00 **Paralelas** **G5 VL5 IS4 CA4**
9:30 – 10:00 **Apertura** 10:00-11:15 **Premios SEA** (Escorza, Real, Luque)	11:00 - 11:30 :*Café*	11:00 - 11:30: *Café*	11:00 - 11:20: *Café*	11:00 - 11:30: *Café*
11:15 - 11:45 *Café*	11:30-13:30 **S2 Plenaria** **Gaia** (Romero-Gómez) **JWST** (Alonso-Herrero) **SKA** (García-Miró) **BH Imaging** (Martí-Vidal) (25+5 min)	11:30-13:30 **S4 Plenaria** **High energy Astrophysics** Zanin, Domínguez, Casaus, Halzen (25+5 min)	11:20-13:30 **S7 Plenaria** **Collaborations Spain - Italy** Bono (institucional, 15 min), Zucarello, Borghese, Straniero (25+5 min)	11:30-13:30 **S10 Plenaria** **Azarquiel Schoo**l (Domínguez) **Cosmology** (González-Pérez) **Galaxies** (Ramos) (25+5 min)
11:45-13:30 **ESO. 60 años: X. Barcons (30), I. Figueroa (15). R. Bachiller (15)** **RRHH + PNs**				
13:30 - 15:00: *Comida+ RGs* **Gaia Hands-on**	13:30 - 15:00: *Comida + RGs* **SKA**	13:30 – 15:00: *Comida + RGs* **CCPP + MAAT@GTC**	13:30 - 15:00: *Comida+ RGs* **Almuerzo con AstrónomAs**	
15:00 - 17:00 **S1 Plenaria** **Submm Astronomy** Cernicharo, Osorio, Busquet, Hacar (25+5 min)	15:00 – 17:00 **Paralelas** **G2 VL2 IS1 EDP2 CP2 CA1**	15:00 – 16:30 **S5 Plenaria** **Planetary physics, small bodies and exoplanets** Pallé, Ribas, Villaver (25+5 min)	15:00 - 16:45 **S8 Plenaria** **Sesión coordinada por la Comisión MyA** (75 min) **Premio J Gorosabel** (20 min)	
17:00 - 17:30 *Café*	17:00 - 17:30 *Café*	16:30 - 17:00 *Café*	16:45 - 17:15 *Café*	
17:30 – 19:30 **Paralela Especial** **"ESO y España: resultados científicos"**	17:30 - 19:30 **S3 Plenaria** **Solar physics** Del Toro, Trujillo-Bueno, Oliver, Ortiz (25+5 min)	17:00 – 19:00 **S6 Plenaria** **Venus** (Peralta), **Mars** (Rull) (25+5 min) + discusión	17:20 - 19:00 **S9 Asamblea General SEA**	
Programa social	Programa social	Programa social	Cena	

Aula Magna **PLENARIAS**

		Sesión/Modera:
5/9 15:00	**José Cernicharo:** Results from Nanocosmos project	**S1: Submm Astronomy** **Javier Alcolea Jiménez**
5/9 15:30	**Mayra Osorio:** Planet formation in extreme conditions	
5/9 16:00	**Gemma Busquet:** The early stages of stellar clusters formation	
5/9 16:30	**Alvaro Hacar:** Recent results on structure, kinematics, and chemistry of molecular clouds	
6/9 11:30	**Mercè Romero-Gómez:** Structure and dynamics with Gaia DR3	**S2: Gaia, JWST, SKA, BH imaging** **Jesús Falcón Barroso**
6/9 12:00	**Almudena Alonso-Herrero:** First science with the JWST	
6/9 12:30	**Cristina García Miró:** Interferometría de muy larga base (VLBI) con SKA	
6/9 13:00	**Ivan Martí-Vidal:** Observing black holes with mm-VLBI and the EHT	
6/9 17:30	**Jose Carlos del Toro:** First SO/PHI"s science nuggets	**S3: Solar Physics** **Manuel Collados Vera**
6/9 18:00	**Javier Trujillo-Bueno:** The CLASP suborbital space experiments	
6/9 18:30	**Ramón Oliver:** T.N.E. it's dynamite	
6/9 19:00	**Ada Natalia Ortíz:** Magnetic flux emergence in the solar atmosphere	
7/9 11:30	**Roberta Zanin:** The Cherenkov Telescope Array Observatory: its scientific capabilities will open a new window of exploration at very-high energies	**S4: High Energy Astrophysics** **Juan Cortina**
7/9 12:00	**Alberto Domínguez:** Galaxy evolution and cosmology using gamma rays observed with Fermi-LAT	
7/9 12:30	**Jorge Casaus:** A Review of Recent Results on Cosmic Rays	
7/9 13:00	**Francis Halzen:** IceCube: Cosmic Neutrinos and Multi-messenger Astronomy	
7/9 15:00	**Enric Pallé:** Exoplanet frontiers I: State-of-the-art detections and characterization	**S5: Planetary physics, small bodies & exoplanets** **José Antonio Caballero**
7/9 15:30	**Ignasi Ribas:** Exoplanet frontiers II: Future perspectives	
7/9 16:00	**Eva Villaver:** Search for life, exoplanets in evolved stars and protoplanetary discs	
7/9 17:00	**Javier Peralta:** Venus Express and Akatsuki results	**S6: Venus, Mars** **Santiago Pérez Hoyos**
7/9 17:30	**Fernando Rull:** Mars exploration: current situation and new perspectives	

8/9 11:20	**Giuseppe Bono:** Colaboraciones italo-españolas en Astronomía	**S7: Collaborations Spain - Italy** **Inma Domínguez**
8/9 11:35	**Francesca Zuccarello:** The European Solar Telescope	
8/9 12:00	**Alice Borghese:** The neutron star bestiary	
8/9 12:30	**Oscar Straniero:** From stars to elementary particles (and viceversa)	
9/9 11:30	**Inma Domínguez:** The Azarquiel School of Astronomy	**S10: Azarquiel School, Cosmology, Galaxies** **José Acosta Pulido**
9/9 12:00	**Violeta González-Pérez:** Cosmological surveys with galaxies	
9/9 12:30	**Cristina Ramos Almeida:** Investigating nuclear activity and its role in galaxy evolution	

Aula Magna **Paralela Especial: ESO y España, resultados científicos** **Modera: Xavier Barcons**

5/9 17:30	**Nicolas Lodieu:** Introduction: ESO and its users in Spain
5/9 17:45	**Jesús Corral Santana:** Road to the stars, promoting the ESO Chile fellowships
5/9 17:00	**María Rosa Zapatero Osorio:** Exoplanets with ESPRESSO. – VLT
5/9 18:15	**Josep Miquel Girart:** Polarimetric observations of Young Stellar Objects with ALMA
5/9 18:30	**Santiago García-Burillo:** Circumnuclear disks and torii in Seyfert galaxies – ALMA
5/9 18:45	**Julia de León:** Solar system science with the ELT
5/9 19:00	**Ignacio Sevilla-Noarbe:** The role of ESO observations in the Dark Energy Survey (DES)
5/9 19:15	**Antonia Varela:** The challenge of keeping dark and quiet skies above astronomical observatories

Aula 5 **Cosmología y Astropartículas (CA1)** **Modera: Ismael Pérez Fournon**

6/9 15:00	**José M. Diego Rodríguez:** Earendel, a z=6.2 star individually resolved thanks to strong gravitational lensing **(invitada)**
6/9 15:30	**Mónica Hernández Sánchez:** Reconstruction of the primordial density field from galaxy catalogs with higher order hamiltonian Monte Carlo sampling
6/9 15:45	**Guillermo Reyes Peraza:** The Halo Occupation Distribution (HOD) for Euclid galaxies with UnitSims
6/9 16:00	**Carlos Hernández Monteagudo:** J-PLUS DR2: Systematics correction and clustering analyses
6/9 16:15	**Antonio Hernán Caballero:** Precise photo-z for precision cosmology with J-PAS
6/9 16:30	**Tomás Müller Bravo:** Testing the homogeneity of Type Ia Supernovae in the Near-infrared for accurate distance estimations
6/9 16:45	**Ignacio Sevilla Noarbe:** Cosmology with the Rubin Observatory from the Dark Energy Science Collaboration

Aula 5 **Cosmología y Astropartículas (CA2)** **Modera: Alicia López Oramas**

7/9 09:00	**Jorge Casaus Armentano:** The HERD Experiment onboard the China Space Station **(invitada)**
7/9 09:30	**Miguel Molero González:** Measurement of the Positron, Electron and Proton Anisotropy with AMS-02 on the ISS
7/9 09:45	**José Ocampo Peleteiro:** Measurement of the Fluxes of Cosmic Nuclei with the Alpha Magnetic Spectrometer
7/9 10:00	**Rubén López Coto:** Very-High-Energy gamma-ray detection of RS Oph with the MAGIC telescopes: First evidence of proton acceleration in a nova
7/9 10:15	**Mireia Nievas Rosillo:** A model-driven search for gamma-ray emitting extreme BL Lacertae blazar candidates with Fermi-LAT
7/9 10:30	**Irene Jiménez Martínez:** Constraining VHE and optical emission from Fast Radio Bursts with the MAGIC telescopes
7/9 10:45	**Edgar Molina:** Gamma-ray observations of the 2018 outburst of MAXI J1820+070

Aula 5 **Cosmología y Astropartículas (CA3)** **Modera: Ricardo Génova Santos**

8/9 09:00	**José Alberto Rubiño:** The QUIJOTE MFI wide survey: A northern sky survey in intensity and polarization at 10–20GHz **(invitada)**
8/9 09:30	**Elena De La Hoz Lopez-Collado:** Diffuse polarized foregrounds from component separation with QUIJOTE-MFI
8/9 09:45	**Patricia Diego Palazeulos:** Search for ultra-light axions in the Cosmic Microwave Background polarization
8/9 10:00	**Mateo Fernández Torreiro:** Component separation analysis along the Galactic Plane: Anomalous Microwave Emission spatial variations
8/9 10:15	**Antonio Ferragamo:** Velocity dispersion vs cluster mass a new scaling law with The Three Hundred Clusters
8/9 10:30	**Carlos Hugo López Caraballo:** Latest results with QUIJOTE: Anomalous Microwave Emission in compact regions
8/9 10:45	**David Vallés Pérez:** Can matter enter voids?

Aula 5 **Cosmología y Astropartículas (CA4)** **Modera: Rubén López Coto**

9/9 09:00	**Juan Mena Fernández:** 2.7% precision measurement of the Baryon Acoustic Oscillations scale with the Dark Energy Survey Y3 data
9/9 09:15	**David Aguado:** The Cosmological Lithium problem from an observational perspective
9/9 09:30	**Lluis Galbany:** An updated measurement of the Hubble constant from Type Ia supernovae in the near-infrared
9/9 09:45	**Ismael Pérez Fournon:** Supernovae in the Infrared avec Hubble (SIRAH), an HST WFC3/IR-only Hubble diagram
9/9 10:00	**Viviana Gammaldi:** Searching for dark matter in Fermi-LAT unidentified sources with Machine Learning
9/9 10:15	**Judit Pérez Romero:** Sensitivity of CTA to gamma-ray emission from Perseus galaxy cluster
9/9 10:30	**Alicia López Oramas:** Transient and multi-messenger astrophysics with the Cherenkov Telescope Array
9/9 10:45	**Xiying Zhang:** Pulsar wind nebula around PSR B1853+01 in X-rays

Aula Magna **Galaxias (G1)** **CO, HI** **Modera: Helmut Dannerbauer**

6/9 09:00	**Omaira González Martín:** Role of the grain size in AGN dust models
6/9 09:15	**Matías Gámez-Marín:** Kinematic-coherent planes of satellites in large volume simulations
6/9 09:30	**Miguel Querejeta:** Do spiral arms enhance the efficiency of star formation?
6/9 09:45	**María Jesús Jiménez Donaire:** First results from VERTICO: The Virgo Environment Traced in CO Survey
6/9 10:00	**Enrica Bellocchi:** New molecular size estimation in local LIRGs at high-spatial resolution with ALMA: comparison among low- and high-z galaxies
6/9 10:15	**Nataliya Ramos Chernenko:** On the quest for galaxy protoclusters with SHARKS
6/9 10:30	**Marie-Lou Gendron-Marsolais:** What can bent-jet radio galaxies teach us about clusters of galaxies?
6/9 10:45	**María Sánchez García:** Star formation relations in local luminous infrared galaxies

Aula Magna **Galaxias (G2)** **Compact galaxies and dark matter // Deep learning/algorithms/simulations for environment** **Modera: Luis Peralta**

6/9 15:00	**Mireia Montes:** The intracluster light: a luminous tracer of dark matter in clusters of galaxies
6/9 15:15	**Giulia Golini:** Ultra-deep imaging of the galaxies lacking dark matter to unravel their origins
6/9 15:30	**Sebastien Comerón:** News about the extreme relic galaxy NGC 1277: insignificant dynamical effects of dark matter due to the extreme compactness of the baryon distribution
6/9 15:45	**Luca Costantin:** Mining the unrevealed population of red-nugget relics in disk galaxies
6/9 16:00	**Irene Pintos Castro:** A cluster finder algorithm for J-PLUS and J-PAS

6/9 16:15	**Rosa Calvi:** Probing the existence of a rich, complex galaxy overdensity at z=5.2
6/9 16:30	**Ana Contreras Santos:** Galaxy pairs in The Three Hundred simulations: are observed pairs close in physical space and is there any way to tell?
6/9 16:45	**Anelise Audibert:** A pilot study of the impact of radio-jets on the molecular gas content of low z obscured quasars

Aula Magna **Galaxias (G3)** **Simulations // Dwarfs** **Modera: Marisa García Vargas**

7/9 09:00	**Francesca Pinna:** The interplay of internal and external processes in the buildup of disk galaxies: thick and thin disks in AURIGA simulations
7/9 09:15	**Regina Sarmiento:** Simulation based inference with deep learning to constrain the evolution of MaNGA galaxies
7/9 09:30	**Salvador Cardona Barrero:** Metallicity gradients of Ultra Diffuse Galaxies in NIHAO Simulations
7/9 09:45	**Ignacio Martín-Navarro:** Anisotropic satellite galaxy quenching modulated by black hole activity
7/9 10:00	**Daniel Walo Martín:** Local variations of the Stellar Velocity ellipsoid: an insight from simulations
7/9 10:15	**Jorge Romero Gómez:** Clusters dwarfs galaxies and the [\alpha/Fe]-mass relation
7/9 10:30	**Macarena G. del Valle Espinosa:** Dancing with dwarfs: Extreme star formation in an interacting pair of low-mass galaxies
7/9 10:45	I**sabel Santos-Santos:** Satellites of dwarfs in LCDM: the LMC and the faint end of the stellar mass-halo mass relation

Aula Magna **Galaxias (G4)** **Stellar populations / Mass assembly** **Modera: Natacha Zanon Dametto**

8/9 09:00	**Ángela García Argumánez:** *When did massive galaxies assemble? Integrated vs 2D analysis of the SFHs and stellar population properties of massive galaxies at 1<z<4*
8/9 09:15	**Rosa María Mérida González:** Probing the Star Formation Main Sequence down to 10^7M_\odot at 1.0<z<4.0
8/9 09:30	**Luis Alberto Díaz García:** Stellar population studies in the incoming J-PAS survey
8/9 09:45	**Laura Scholz-Díaz:** Dark matter halos as drivers of galaxy stellar population
8/9 10:00	**Jairo Méndez-Abreu:** The separated star formation main sequence of bulges and disks. New clues for the galaxy mass assembly
8/9 10:15	**Patricia Sánchez-Blázquez:** CATARSIS: Calar Alto "Tetra-ARmed Super-Ifu Spectrograph" Survey
8/9 10:30	**Mario Chamorro Cazorla:** MEGADES: MEGARA Galaxy Disks Evolution Survey
8/9 10:45	**Iker Millan Irigoyen:** Stellar Populations in type Ia supernova host galaxies at intermediate-high redshift: Star formation and metallicity enrichment histories

Aula Magna **Galaxias (G5)** **AGNs and black holes** **Modera: Omaira González Martín**

9/9 09:00	**Jorge Sánchez Almeida:** Discovery of faint double-peak Ha emission in the halo of low redshift galaxies: it seems to be produced by rogue Intermediate Mass Black Holes (IMBHs)
9/9 09:15	**Anna Ferré-Mateu:** From dwarf to monster black holes in the realm compact galaxies
9/9 09:30	**Lorenzo Barquín-González:** Origin of the optical spectroscopic classification of AGN
9/9 09:45	**Giovanna Speranza:** The role of AGN feedback in six local Type-2 quasars
9/9 10:00	**Koushika Vaiyapuri Palanimuthu:** Studying the X-ray spectral properties of nearby AGN using clumpy torus model
9/9 10:15	**Laura Hermosa Muñoz:** How common are outflows in low luminosity AGNs?
9/9 10:30	**Beatriz Agís González:** Spectropolarimetry of GSN 069: the source of the quasi-periodic eruptions
9/9 10:45	**Ignacio del Moral Castro:** Are active galaxies different at large-scale than their non-active twin galaxies?

Aula 4 **Vía Láctea y sus componentes (VL1)** **GAIA** **Modera: Cesca Figueras**

6/9 09:15	**Zofia Chrobakova:** Warp and flare of the Galactic disc revealed with supergiants by Gaia EDR3
6/9 09:30	**Rob Grand:** Clues to the formation of Galactic structure from cosmological hydrodynamical simulations
6/9 09:45	**Jorge Guzmán Díaz:** Characterization of intermediate mass young stars from spectral energy distributions and Gaia EDR3
6/9 10:00	**Michelangelo Pantaleoni:** A 3D map of the solar neighbourhood using OB stars and Gaia DR3
6/9 10:15	**Carlos Cifuentes:** About the multiplicity of M dwarfs
6/9 10:30	**Lara Pallas:** The power of XP Gaia spectrophotometry and Self-Organizing Maps to analyse the evolutionary state & physical properties of Milky Way stars
6/9 10:45	**Marcel Bernet:** From ridges to manifolds with Gaia EDR3 and DR3: 3D characterization of the moving groups in the Milky Way disk

Aula 4 **Vía Láctea y sus componentes (VL2)** **CHEMODIN+CLUSTERS** **Modera: Mercè Romero**

6/9 15:00	**Pablo Santos-Peral:** High-precision Mg abundances in the metal-rich Galactic disc: chemodynamical relations & comparison with chemical evolution models
6/9 15:15	**Carlos López-Sanjuán:** Spectral evolution and calcium white dwarfs in J-PLUS
6/9 15:30	**José Eduardo Méndez-Delgado:** The Orion Nebula through its photoionized Herbig-Haro objects
6/9 15:45	**Ignacio Negueruela:** Strong lithium lines in red supergiants
6/9 16:00	**Maren Brauner:** Correlations between elemental abundances on a large sample of P-rich stars
6/9 16:15	**Raúl Castellanos:** An Infrared view of NGC3603 and Westerlund 1
6/9 16:30	**Giovanni M Mirouh:** Detailed equilibrium and dynamical tides: impact on circularization and synchronization in open clusters
6/9 16:45	**Karla Peña-Ramírez:** Open clusters under the NIR lense

Aula 4 **Vía Láctea y sus componentes (VL3)** **NP+Supernovas** **Modera: Aníbal García Hernández**

7/9 09.00	**Jorge García-Rojas:** High-ADF planetary nebulae through the eyes of a MUSE
7/9 09:15	**David Jones:** Post-red-giant-branch planetary nebulae
7/9 09:30	**Javier Alcolea:** Determining the orbital parameters of binary systems with an AGB primary
7/9 09:45	**Arturo Manchado:** The interaction of a planetary nebula with the ISM
7/9 10:00	**Veronica Gómez-Llanos:** Ad-hoc Ionization Correction Factors from Machine Learning Algorithms for PN PC 22
7/9 10:15	**Miguel Gómez-Garrido:** Continuum and line emission of the symbiotic binary R Aqr
7/9 10:30	**José F. Gómez:** Water fountains: the last cry of dying stars?
7/9 10:45	**María Arias:** Remanentes de supernova a muy bajas frecuencias: observaciones con LOFAR

Aula 4 **Vía Láctea y sus componentes (VL4)** **Stars and BH** **Modera: Giuseppina Battaglia**

8/9 09:00	**Juan Carlos Suárez:** Determining density and gravity of intermediate-mass stars with Convolutional Neural Networks
8/9 09:15	**Tarek Hassan:** Astronomy beyond the mili-arcsecond: the potential of intensity interferometry in the Canary Islands
8/9 09:30	**Artemio Herrero:** 2MASS J20395358+4222505, a Rosetta Stone in the realm of massive stars
8/9 09:45	**Antonio García-Hernández:** The period-luminosity-color diagram: identifying the fundamental radial mode in A/F stars with Kepler and Gaia
8/9 10:00	**Daniel Mata Sánchez:** A cold wind during the discovery outburst of the black-hole MAXI J1803-298
8/9 10:15	**Virginia Cúneo:** Optical accretion disc winds in accreting white dwarfs
8/9 10:30	**Pep Covas:** Continuous gravitational waves from unknown neutron stars in binary systems
8/9 10:45	**Mar Carretero-Castrillo:** New massive runaways stars and their phenomenology

Aula 4 **Vía Láctea y sus componentes (VL5)** **FE+Dust** **Modera: Emma Fernández Alvar**

9/9 09:00	**Giuseppina Battaglia:** A Gaia-aided view of the properties of Local Group dwarf galaxies
9/9 09:15	**Rubén Fedriani:** The SOFIA Massive (SOMA) Star Formation Survey and the open-source python package sedcreator
9/9 09.30	**Miguel Vioque:** A new perspective on the intermediate- to high-mass star formation
9/9 09:45	**Guillermo Blázquez Calero:** Bow-shock substructure of molecular outflows from protostars
9/9 10:00	**Leire Beitia-Antero:** The role of dust grains in the chemical evolution of the ISM

9/9 10:15	**David Navarro-Almaida:** Linking dust and chemical evolution: Taurus and Perseus
9/9 10:30	**Miriam García Santa-María:** Submm imaging of the Galactic Center starburst Sgr B2
9/9 10:45	**Marta Lorenzo:** One step closer to the First Stars: +150 OB stars in the metal-poor galaxy Sextans A

Aula 2 **Instrumentación y supercomputación (IS1)** **Machine Learning** **Modera: Javier de Cos**

6/9 15:00	**Friedrich Anders:** Exploiting the full Gaia data: Transferring spectroscopic stellar labels to Gaia DR3 stars with supervised learning techniques
6/9 15:15	**Pablo M. Sánchez Alarcón:** Fully Adaptive Bayesian Algorithm for Data Analysis. FABADA
6/9 15:30	**Jose Ramón Rodón:** Obtaining a classification of A-F stars through clustering analyzing the morphology of the light curve
6/9 15:45	**Miguel Santander García:** Do machines dream of modelling AGB stars?
6/9 16:00	**Daniel de Andrés:** Machine learning within the THREE HUNDRED simulation project.
6/9 16:15	**Diego de la Fuente:** Web-based telluric correction made in Spain: spectral fitting of Vega-type telluric standards
6/9 16:30	**Marco Álvarez-González:** GUASOM flavour DR3: Gaia utility based on Self-Organizing Maps for the analysis of classification outliers in DR3
6/9 16:45	**Roberto Baena Gallé:** Astrometric Centering of WFPC2/HST images with Deep Learning

Aula 2 **Instrumentación y supercomputación (IS2)** **Future Instruments** **Modera: Begoña García Lorenzo**

7/9 09:00	**Armando Gil de Paz:** TARSIS, the future 9-arcmin^2 Integral Field Spectrograph for the CAHA 3.5m
7/9 09:15	**Julián Garrido:** Status of the SKA project and the SKA Regional Centre Network
7/9 09:30	**Nicolas Lodieu:** The ExoLife Finder project: a prototype hydrid interferometer telescope to be installed at Teide Observatory
7/9 09:45	**María Rosa Zapatero Osorio:** Updates on the report from the GTC Instrumentation Working Group
7/9 10:00	**Victor J. Sánchez Béjar:** The GTC Adaptive Optics and Laser Guide Star system (GTCAO-LGS) and GRANCAIN, the first scientific AO camera.
7/9 10:15	**Jonay González Hernández:** ANDES: the ArmazoNes high Dispersion Echelle Spectrograph for the ELT
7/9 10:30	**Almudena Prieto:** The power of Extreme Angular Resolution with GTC +FRIDA: getting there and science paths
7/9 10:45	**Francisco Garzón:** EMIR upgrade: installing a new Hawaii 2RG detector

Aula 2	Instrumentación y supercomputación (IS3)	Instrumentation + Archives	Modera: Víctor Sánchez Béjar
8/9 09:00	**Antonio Marín-Franch:** Commissioning, on sky performance and first scientific operations of JPCam, a 1.2 Gpixel camera for the wide-field 2.6m Javalambre Survey Telescope		
8/9 09:15	**Marc Balcells:** Future plans for the William Herschel and Isaac Newton telescopes		
8/9 09:30	**Miquel Nofrarias:** The LISA Diagnostic Subsystem		
8/9 09:45	**Ignacio Mateos:** Increasing the technological maturity of a low noise magnetic measurement system with IOD(IOV CubeSat Platforms		
8/9 09:55	**Xavier Manyosa:** Development of a miniaturized low-noise magnetometer for space missions		
8/9 10:05	**Sofía Sisteré:** Whispering Gallery Mode Resonators as ultra-stable frequency reference for astronomy and gravitational observatories		
8/9 10:15	**Sepideh Eskandarlou:** Scatter light field in multi-color and its automatic subtraction		
8/9 10:30	**Alejandro S. Borlaff:** Exploring the ultra-low surface brightness Universe from space: Current and future challenges		
8/9 10:45	**David Nespral:** Update of Fastcam, the lucky imaging instrument at the Observatorios de Canarias (OOCC)		

Aula 2	Instrumentación y supercomputación (IS4)	Miscelánea	Modera: Ramón García
9/9 09:00	**Begoña García Lorenzo:** The participation of the Instituto de Astrofísica de Canarias in HARMONI/ELT		
9/9 09:10	**Javier Piqueras-López:** CAB contribution to the instrument ELT-HARMONI: the last steps of its design phase		
9/9 09:20	**Klaus Rubke:** ASTRO+: Design, construction, and scientific exploitation of a large-scale massive star spectroscopic database		
9/9 09:35	**Antonio Cabrera-Lavers:** GTC Science Operation Status and Instrumentation plan		
9/9 09:50	**Guillermo Pascual Cisneros:** Optimization of a microwave polarimeter for astronomy with optical correlation and detection		
9/9 10:05	**Francisco Prada:** A new integral field instrument for the OSIRIS spectrograph on the Gran Telescopio CANARIAS		
9/9 10:20	**Nataly Ospina:** Hyper-Kamiokande: the next generation of neutrino detectors		
9/9 10:35	**Martín Rodríguez-Monroy:** Colour corrections from atmospheric transmission with AuxTel for LSS		
9/9 10:50	**Ruben Sanchez-Janssen:** MOSAIC: the high multiplex and multi-IFU spectrograph for the ELT		

Grados	Ciencias Planetarias (CP1)	SS Small Bodies	Modera: Eva Villaver
6/9 09:00	**Adriano Campo Bagatin:** The NASA DART mission: prepared for impact **(invitada)**		
6/9 09:30	**Javier Licandro:** The next generation ATLAS unit for Teide Observatory		
6/9 09:45	**Nair Trógolo:** Ejecting regolith from the surface of rapidly rotating asteroids		
6/9 10:00	**Po-Yen Liu:** Influence of the DART impact on Dimorphos		

6/9 10:15	**Laura M. Parro:** Possible link between boulders and craters in the top-shape asteroids
6/9 10:30	**Julia de León:** Characterization of NEAs in the frame of NHATS program using the 10.4m Gran Telescopio Canarias
6/9 10:45	**David Morate:** Mineralogical analysis of 14 PHAS from ViNOS data

Grados **Ciencias Planetarias (CP2)** **Discs** **Modera: Benjamín Montesinos**

6/9 15:00	**Pablo Rivière Marichalar (invited):** Chemical, morphological and dynamical study of circumstellar material in AB Aur
6/9 15:30	**Juan C. Vallejo Chavarino:** Formation of ring-like structures in flared alpha-discs with X-ray/FUV
6/9 15:45	**Alejandro Santamaría Miranda:** The early stages at substellar formation in Lupus molecular cloud
6/9 16:00	**Jun-Yan Zhang:** Chemical Components Analysis of Atmospheres of Ultracool Objects using Laboratorial Spectra
6/9 16:15	**Isabel Rebollido:** The search for gas in debris discs: ALMA detection of CO in HD 36546
6/9 16:30	**Fernando Tinaut Ruano:** Finding correlations between hydration bands and NUV behavior in primitive asteroids
6/9 16:45	**Paula G. Benavidez:** Exploring the collisional evolution of small bodies in the early dynamical instability

Grados **Ciencias Planetarias (CP3)** **Planetas + Exoplanetas** **Modera: Alejandro Suárez Mascareño**

7/9 09:00	**Joan Roy-Pérez:** Nubes y nieblas en las atmósferas de Urano y Neptuno en base a observaciones de HST/WFC3
7/9 09:15	**Asier Anguiano-Arteaga:** Estudio de la estructura vertical de las nubes de la Gran Mancha Roja de Júpiter, su entorno y del óvalo BA entre 2015 y 2021 a partir de imágenes del HST/WFC3
7/9 9:30	**José A.Caballero:** Here comes the GJ 486
7/9 9 :45	**Emma Esparza-Borges:** Let"s have CHOCOLATE! An alternative technique for broadband transmission spectroscopy
7/9 09:55	**Manuel López-Puertas:** Characterisation of photo-evaporating exoplanet atmospheres using the He 10830 line
7/9 10:10	**Miguel Pérez-Torres:** Radio observations as a tool to unveil star-planet interaction in M-dwarfs
7/9 10:25	**Naira Barrado-Izaguirre:** Evolución temporal de las ondas circumpolares de Júpiter observadas por el HST
7/9 10:45	**Olga Balsalobre Ruza:** The KOBE experiment. KOBEsim: improving RV planet detection through efficient scheduling

Grados **Ciencias Planetarias (CP4)** **Planetas - Marte** **Modera: Manuel López Puertas**

8/9 09:00	**Alejandro Cardesín Moinelo:** Mars wind & Wave Mapping (MWWM) project: Martian atmosphere dynamics seen from Earth telescopes, Space Missions and 3D climate models
8/9 09:15	**Miguel Angel López Valverde:** Martian atmospheric temperature and density profiles at high vertical resolution from solar occultation measurements by NOMAD/Trace Gas Orbiter
8/9 09:30	**Gabriella Gilli:** On the effect of the obliquity of Mars to the Hydrogen escape and the fate of water in the last millions of years

8/9 09:45	**Adrian Brines:** Water vapor vertical distributions in Martian atmosphere from TGO/NOMAD observations
8/9 10:00	**Ashimananda Modak:** Martian CO profiles from the solar occultation experiment of NOMAD on board TGO
8/9 10:15	**Jorge Hernández Bernal:** Exploring the mysteries of the elongated cloud on the Arsia Mons volcano on Mars
8/9 10:30	**Francisco González Galindo:** Hydrogen escape at Mars: study with a Global Climate Model
8/9 10:45	**Aurélien Stolzenbach:** Composition and size of Martian aerosols as seen by NOMAD-SO

Aula 2 **Física Solar (FS1)** **Modera: Sara Esteban**

6/9 09:00	**Ernest Alsina Ballester:** Solving the paradox of the solar sodium D1 line polarization
6/9 09:15	**Tanausú del Pino Alemán:** Inferring and measuring the Sun's global magnetic field using the Hanle effect
6/9 09:30	**Llorenç Melis Sánchez:** Alfvén wave heating in partially ionised thin threads of solar prominences
6/9 09:45	**Tobías Felipe:** Chromospheric oscillations in a pore: synthetic and real fast-cadence observations
6/9 10:00	**Carmen Gámez**: Precision measurement of daily Proton, Helium, Electron and Positron fluxes by AMS
6/9 10:15	**Manuel Flores Soriano:** From noise to signal: adapting SMOS to space weather operations
6/9 10:30	**Consuelo Cid:** The Spanish Space Weather Service (SeNMEs)
6/9 10:45	**Íñigo Arregui:** A Probability Distribution for the Amplitude of Solar Cycle 25

Aula 3 **Física Solar (FS2)** **Modera: Elena Khomenko**

7/9 09:00	**Andrea Perdomo:** Optimized opacity for near-surface convection simulations of cool stars with the MANCHA code
7/9 09:15	**Luis Bellot Rubio:** Unipolar and bipolar magnetic flux appearance in the solar internetwork
7/9 09:30	**Sara Esteban Pozuelo:** The physical properties of light bridges depending on the geometric height
7/9 09:45	**Matheus Kriginsky**: Non-LTE inversions of chromospheric fibrils
7/9 10:00	**Christoph Kuckein:** Atmospheric properties inferred from high-resolution Ca II 854.2 nm intensity inversions in an M-class flare
7/9 10:15	**Iballa Cabello:** A textbook example of magnetic flux emergence leading to EBs, UV bursts, surges and EUV signatures
7/9 10:30	**Daniel Nóbrega-Siverio:** A 2D model for Coronal Bright Points: association with spicules, UV bursts, surges and EUV jets
7/9 10:45	**Andrés Asensio Ramos:** Learning to do multiframe blind deconvolution unsupervised

Aula 3 **Enseñanza, divulgación y patrimonio (EDP1)** **ENSEÑANZA** **Modera: Juan A. Belmonte**

6/9 09:00	**Juan Ángel Vaquerizo:** The CESAR initiative in the pandemic era
6/9 09:15	**David Jones:** Per aspera ad astra simul: ERASMUS+ strategic partnerships for international education and outreach
6/9 09:30	**Nayra Rodríguez Eugenio:** PETeR: robots looking to the future
6/9 09:45	**Iñaki Ordóñez Etxeberria:** Ciencia y Tecnología marciana en el Bachillerato de Investigación
6/9 10:00	**Antonio Eff-Darwich:** Mi aula en Marte: fomentando la ciencia del presente con sueños de futuro
6/9 10:15	**Sara González Pérez:** DRAGO: Educational project to bring Space Science and Technology to schools
6/9 10:30	**Leire Beitia-Antero:** Universo Complutense: un blog de apoyo para los estudiantes de astronomía y astrofísica
6/9 10:45	**Nataly Ospina:** Mentoring and internship programs as tools to overcome inequalities for astronomy undergraduate students in Colombian Institutions: RECA

Aula 3 **Enseñanza, divulgación y patrimonio (EDP2)** **Inclusión, divulgación, patrimonio** **Modera: Ana Ulla**

6/9 15:00	**Juan A. Belmonte:** Paseando con una brújula: Michael Hoskin y la puesta en valor del patrimonio astronómico más antiguo de España
6/9 15:15	**Isabel Rebollido:** Acompañando a las astrónomas: programa de mentoría de CMyA
6/9 15:30	**Enrique Pérez Montero:** The outreach project Astroaccesible to teach astronomy to impaired people: New activities and strategies in pandemIc times
6/9 15:45	**Lucía González Cuesta:** Allande Stars: Proyecto de Divulgación Científica Itinerante en Astronomía en zonas rurales
6/9 16:00	**Carlos Tejero:** El cielo de Salamanca
6/9 16:15	**Pedro Mas Buitrago:** Escuelas a distancia del Observatorio Virtual
6/9 16:30	**David Montes Gutiérrez:** Difundiendo eventos astronómicos desde el Observatorio UCM
6/9 16:45	**Jorge Hernández Bernal:** Ética espacial: reflexiones sobre un curso de verano interdisciplinar