**ENAA 2022 - Programme**Faculdade de Ciências da Universidade de Lisboa, 5-6 September 2022

September 5			
09:00			Welcome Address
	Planets and pla	netary systems (part 1)	- Session Chair: Pedro Machado
09:15	João	Dias	Atmospheric evolution and the search for species of astrobiological interest in the Solar System
09:30	Francisco	Rodrigues	Identification and Characterization of Morphological evidence associated with Fluvio marine Environments on Mars
09:45	João	Ferreira	Stellar occultation campaign for (65 803) Didymos in Portugal
10:00	Tomás	Silva	Detection of Barium in the atmospheres of ultra-hot gas giants
10:15	Nuno	Santos	Invited Talk - PoET: a solar telescope for planet hunters
10:45 Posters and Coffee		offee	
	Galactic and Ex	tragalactic astronomy -	Session Chair: Kora Mužić
11:15	Duarte	Almeida	Mass loss in Open Clusters
11:30	Claudio	Llinares	Galactic potentials and stellar orbits in AEssence
11:45	Sandro	Moreira	Scale Height Evolution of the Galactic Disk
12:00	Henrique	Miranda	An investigation of the star-forming main sequence considering the nebular continuum emission at low-z
12:15	Rodrigo	Carvajal	Ensemble Machine Learning for the Extraction of High-Redshift Radio Galaxies
12:30	Duarte	Santos	FADO and galaxy classification
12:45	João	Duarte	A Sample of Dust Attenuation Laws for DES Galaxies
13:00	Lunch		
14:00	João	Alves	Invited Talk - The 3D motion of the ISM with ESO and ESA telescopes
14:30	Sabyasachi	Goswami	Interstellar dust indicators from Integral Field Spectroscopy
14:45	João	Gonçalves	Extinction curves of type Ia supernovae from the Dark Energy Survey
	Cosmology and Gravitation (part 1) - Session Chair: António da Silva		
15:00	Inês	Albuquerque	A designer approach to f(Q) gravity and cosmological implications
15:15	Tiago	Barreiro	Testing f(Q) gravity with redshift space distortions

15:30	Posters and Co	offee	
16:00	Jose Pedro	Mimoso	Generalising comformal time
16:15	Justin	Feng	Adventures in automatic differentiation
16:30	José	Ferreira	Forecasting F(Q) cosmology with standard sirens
16:45	Miguel	Pinto	Particle production processes in f(R,T) gravity
17:00	Krinio	Marouda	Testing GR in collapsing spacetimes
17:15	Inês	Rainho	Linearized General Relativity in hyperboloidal slices
17:30	Nelson	Nunes	Cosmological constraints on a simple model for varying alpha
18:00	SPA General As	sembly	
20:30	ENAA Dinner		

## September 6

	Planets and plan	netary systems (part 2)	/ Solar and Stellar physics - Session Chair: João Ferreira
09:00	Daniela	Cortes Espadinha	Venus Atmospheric Dynamics: Akatsuki UVI and TNG HARPS-N observations
09:15	Francisco	Brasil	Atmospheric Gravity Waves on Mars using OMEGA/Mars Express images – novel results from systematised study
09:30	Pedro	Machado	Saturn atmosphere's winds with VLT/UVES Doppler velocimetry
09:45	José	Ribeiro	Preliminary atmospheric study of Jupiter using ISO/SWS data
10:00	José Eduardo	Silva	Jupiter's atmosphere dynamics with Doppler Velocimetry - Exploring the capabilities of VLT/ESPRESSO
10:15	Lara	Piscarreta	Spectral Characterization of Young Free-floating Planetary-mass Objects
10:30	Inês	Rolo	The Enigma of Li-Rich Giants and its Relation with Stellar Activity
10:45	Posters and Co	offee	
	Astronomical technology: instrumentation, methods and codes - Session Chair: António Amorim		
11:15	Manuel	Abreu	ELT-ANDES, the High Resolution Spectrograph for the ELT and the design of the Instrument Front End
11:30	Carlos	Martins	An overview of ELT Line Calibrations WG activities

11:45	Nuno	Morujão	Adaptive Optics Telemetry
12:00	Cédric	Pereira	VIS/NIR Illumination System for the OGSE of ARIEL Space Mission
12:15	Bachar	Wehbe	The Atmospheric Dispersion Compensator of NIRPS, the Near Infra Red Planet Searcher
12:30	Beatriz	Pereira	Polarization sky patterns
12:45	Pedro	Cunha	Photometric redshift-aided classification using ensemble learning
13:00	Lunch		
	Astronomy and	Society - Session Chair	T. João Fernandes
14:15	Rosa	Doran	Invited talk - The power of collaboration in Astronomy Education
14:45	Andre	Moitinho	Removing barriers from publishing and accessing scientific research: The Astronomy and Astrophysics transition to open access and publishing policies
	Cosmology and	Gravitation (part 2) - Se	ession Chair: Justin Feng
15:00	Paulo	Garcia	Latest results of the GRAVITY experiment on the Galactic Centre supermassive black hole
15:15	Posters and Co	offee	
15:45	Vitor	Cardoso	Invited talk - The discovery potential of black holes
16:15	Catarina	Marques	Optimization of Spectroscopic Tests of Fundamental Physics: from ESPRESSO to the ELT
16:30	Ana	Carvalho	Euclid Cluster Abundances as a probe of Non-homogeneous models and the Cosmological Principle
16:45	João	Dias	Constraints on extended Bekenstein models from cosmological, astrophysical, and local data
17:00	Ana Mafalda	Vieira	Low redshift constraints on a Modified Gravity Model
17:15			Concluding remarks
17:20			End of meeting

Poster Contributions			
Astronomical technology: instrumentation, methods and codes			
	Nuno M.	Gonçalves	Optical design for a prototype of a cross dispersed echelle spectrograph
Cosmology and Gravitation			
	Masato	Minamitsuji	Symmetry restoration in the vicinity of neutron stars with a nonminimal coupling
	Samuel	Pinto	Statistical analysis of different dark energy and modified gravity type models
Galactic and Extragalactic astronomy			
	Davi	Barbosa	A Complete Characterisation of Ultra Steep Spectrum Sources in the COSMOS Field
	Gonçalo	Fernandes	Distribution of young stars observed by the ESA Gaia mission
Planets and planetary systems			
	Constança	Freire	Observations of the (1-0) band of CO in Venus using VIRTIS-H aboard Venus Express
Solar and Stellar physics			
	Andreas W.	Neitzel	Stellar characterization for the Ariel space mission
	Victoria	Samboco	Testando o parâmetro de mistura com binários estelares de eclipse







