8th Meeting in Fundamental Cosmology

Instituto de Astrofísica de Andalucía (IAA-CSIC), Granada

TIME	WEDNESDAY 2ND	THURSDAY 3TH	FRIDAY 4TH
09:00		**Matteo Viel:** "Probing Dark Matter and Neutrinos with Small Scale Cosmology Structure Formation"	**Hector Gil-Marín:** "Cosmology with the large scale structure: BAO, RSD and beyond"
09:15			
09:30		**Calum Gordon:** "Lyman-alpha correlations from early DESI data"	**Carlos Garcia-Garcia:** "The last 10 billion of the comic structure growth"
09:45		**Lurdes Ondaro Maella:** "Simulating the first halos in warm dark matter cosmologies"	**Juan Mena Fernández:** "Optimisation of the galaxy sample for the DES Y6 BAO distance measurement"
10:00		**Enrique Martínez-González:** "LiteBIRD: science and instrumentation"	**Julia Ferrer Ereza:** "A high-fidelity lightcone of LRGs in the LCDM cosmology"
10:15			**Robert Feldmann:** "Deep Learning in hydrodynamic simulations"
10:30		**Christian Gimeno:** "Hemispherical power asymmetry in intensity and polarization for Planck release-4 data"	
10:45		**Ricardo Génova-Santos:** "The QUIJOTE experiment: mapping low-frequency CMB foregrounds in polarisation to unveil inflationary B-modes"	**Marc Alemany Gotor:** "Optimizing the sample selection for future multi-probe photometric galaxy surveys"
11:00		**Coffee break**	**Coffee break**

Time			
11:15			
11:30		**Elena de la Hoz:** "Diffuse polarized foregrounds from component separation with QUIJOTE-MFI"	**José Oñorbe:** "Galaxy formation in Hydrodynamical Cosmological Simulations"
11:45		**Mateo Fernández-Torreiro:** "Spatial variations of the anomalous microwave emission along the Galactic Plane with QUIJOTE-MFI data"	
12:00		**Federica Guidi:** "Constraining cosmology with the South Pole Telescope"	**Matteo Zennaro:** "Lagrangian bias expansion to describe the clustering of galaxies in upcoming spectro- and photometric galaxy surveys"
12:15			**Santiago Avila:** "Can the galaxy-dark matter connection affect cosmological constraints?"
12:30		**Marianna Foschi:** "Increase the Resolution of CMB Foreground Models with Generative Adversarial Neural Networks"	**Sergio Contreras:** "Inferring cosmology from galaxy clustering with accelerated N-body scaling and subhalo abundance matching"
12:45		**José Manuel Casas González:** "Foreground characterization using neural networks"	**Daniel G. Figueroa:** "The (Numerical) Early Universe "
13:00	**Registration - Aperitive**	**Blake Sherwin:** "Testing structure growth with new CMB lensing measurements"	
13:15			*Concluding remakrs*
13:30		**Lunch Break**	
13:45			
14:00			

14:15			
14:30	*Welcome by IAA-CSIC Director and SOC*		
14:45	**Miguel Zumalacarregui:** "GW lensing and fundamental physics"		
15:00		**Konrad Kuijken:** "Weak lensing cosmology and the S8 tension"	
15:15	**Antonio Manso:** "Parity Violating Gravitational Waves at the end of inflation"		
15:30	**José María Palencia:** "Statistics of extremely magnified stars. The role of dark microlenses"	**Jonás Chaves-Montero:** "On the origin of the lensing is low problem"	
15:45	**Pratibha Jangra:** "Impact of Dark Matter spikes on the merger rates of Primordial Black Holes"	**David Sánchez Cid:** "Theoretical modeling and forecast for the Galaxy Clustering and Weak Lensing analysis with the Dark Energy Survey"	
16:00	**Tomás E. Mueller Bravo**: "An Overview of Supernova Cosmology"	**Guillermo Martínez Somonte:** "Primordial Power Spectrum reconstructions from Large Scale Structure through a bayesian inference methodology"	
16:15		**Jacobo Asorey Barreiro:** "Cosmology with wide extra-galactic radio surveys from SKA Observatory pathfinders"	
16:30	**Coffee break**	**Coffee break**	
16:45			
17:00	**María Martínez:** "Direct search for dark matter: status and	**Anna Ferré-Mateu:** "A 3D view of galaxy evolution across	

17:15	perspectives"	cosmic time"	
17:30	**Alejandra Aguirre-Santaella:** "Shedding light on low-mass subhalo survival and annihilation luminosity with numerical simulations"	**Anastasio Díaz-Sanchez:** "CARTHAGO, a new algorithm to detect (proto-)clusters of galaxies"	
17:45	**Daniel López-Cano:** "The cosmology dependence of the concentration-mass-redshift relation"	**Luisa Lucie-Smith:** "Explainable deep learning models for cosmological structure formation"	
18:00	**Martín López Corredoira:** "Fundamental ideas in Cosmology. Scientific, philosophical and sociological critical perspectives"		
18:15	**Giulia Rodighiero:** "High redshift galaxies in the era of Euclid and JWST"		
18:30			
21:00		**Dinner**	