

Mock Córdoba 2019 - Program

	Monday 8	Tuesday 9	Wednesday 10	Thursday 11
09:30-09:50	Welcome	Christian Arnold	Doris Stoppacher	Discussion session: Gender imbalance
09:50-10:10	Pascal Elahi	Yan-Chuan Cai	Kevin McCarthy	
10:10-10:30	Ismael Ferrero	Carlos Correa	Facundo Rodriguez	
10:30-11:00	Coffee	Coffee	Coffee	Coffee
11:00-11:20	Sergio Contreras	Enrique Paillas	Esteban Jimenez	Discussion sessions: Cosmology, galaxy formation and mock catalogues in the the next 10 years.
11:20-11:40	Ariel Sánchez	Wojtek Hellwing	Martha Lippich	
11:40-12:00	Discussion: Elahi, Sánchez, Hellwing	Joaquin Armijo	Nelson Padilla	
12:00-13:00		Discussion: Paillas, Lippich, Contreras	Discussion: Cai, McCarthy, Stoppacher	
13:00-14:30	Lunch	Lunch	Lunch	Lunch
14:30-14:50	Alejandro Benitez-Llambay	Hong Guo	Diego Garcia Lambas	Final discussion
14:50-15:10	Celeste Artale	Julián Bautista	Dante Paz	
15:10-15:30	Lucas Bignone	Martín Makler	Federico Dávila	
15:30-16:00	Coffee	Coffee	Coffee	
16:00-16:20	Gian Luigi Granato	Felipe Ramos	Violeta Gonzalez-Perez	
16:20-16:40	Cinthia Ragone	Yamila Yaryura	Elizabeth Gonzalez	
16:40-17:00	Yetli Rosas	Discussion: Gonzalez, Guo, Granato	Federico Stasyszyn	
17:00-18:00	Discussion: Ragone, Makler, Benitez-Llambay		Discussion: Garcia Lambas, Paz, Gonzalez-Perez	

Cosmology
Modified Gravity
Mocks/Assembly bias
Hydro/Galaxy Formation
Voids

Break out groups:
Galaxy formation prescriptions
Mock catalogues for Cosmology/Gravity
Galaxy formation in hydro

Monday 8

09:30-09:50	Welcome
09:50-10:10	Pascal Elahi – The GENESIS mock surveys
10:10-10:30	Ismael Ferrero – COLA mock catalogues for cosmological surveys
10:30-11:00	Coffee
11:00-11:20	Sergio Contreras – Bias and Clustering Calculations Optimised: Maximising discovery with galaxy surveys
11:20-11:40	Ariel Sánchez – The information content of anisotropic galaxy clustering measurements
11:40-12:00	Discussion: Elahi, Sánchez, Hellwing
12:00-13:00	
13:00-14:30	Lunch
14:30-14:50	Alejandro Benitez-Llambay – Baryon-induced dark matter cores
14:50-15:10	Celeste Artale – Large-scale distribution of ionized metals in IllustrisTNG
15:10-15:30	Lucas Bignone – Non-parametric morphologies of galaxies in the EAGLE simulation
15:30-16:00	Coffee
16:00-16:20	Gian Luigi Granato – Dust Evolution in Galaxy Cluster Simulations
16:20-16:40	Cinthia Ragone – BCG Mass Evolution in Cosmological Hydro-Simulations
16:40-17:00	Yetli Rosas – Bars in cosmological simulations
17:00-18:00	Discussion: Ragone, Makler, Benitez-Llambay

Tuesday 9

09:30-09:50	Christian Arnold – Simulations galaxy formation in $f(R)$ modified gravity
09:50-10:10	Yan-Chuan Cai – Combined cosmological probes
10:10-10:30	Carlos Correa – Non-fiducial cosmological test from geometrical and dynamical distortions around voids
10:30-11:00	Coffee
11:00-11:20	Enrique Paillas – Unveiling modified gravity with cosmic voids
11:20-11:40	Wojtek Hellwing – Breaking the cosmic degeneracies with non-standard probes
11:40-12:00	Joaquín Armijo – A marked correlation function to test gravity
12:00-13:00	Discussion: Paillas, Lippich, Contreras
13:00-14:30	Lunch
14:30-14:50	Hong Guo – Formation of gas-rich galaxies and its connection to the dark matter halos
14:50-15:10	Julián Bautista – Simulations for Lyman-alpha forest
15:10-15:30	Martin Makler – Finding gravitational arcs in real and simulated images
15:30-16:00	Coffee
16:00-16:20	Felipe Ramos – Globular Clusters in the Illustris Simulation
16:20-16:40	Yamila Yaryura – Associations of dwarf galaxies
16:40-17:00	Discussion: Gonzalez, Guo, Granato
17:00-18:00	

Wednesday 10

09:30-09:50	Doris Stoppacher – A SAM perspective on massive galaxies at $z=0.55$ – Can we find traces of the galaxy assembly bias?
09:50-10:10	Kevin McCarthy – The Effects of Galaxy Assembly Bias on the Inference of Growth Rate from Redshift-Space Distortions
10:10-10:30	Facundo Rodriguez – Using mock catalogs to improve galaxy group finders
10:30-11:00	Coffee
11:00-11:20	Esteban Jiménez – Halo occupation models and assembly bias in clustering predictions
11:20-11:40	Martha Lippich – Comparison of approximate methods for mock catalogues and covariance matrices
11:40-12:00	Nelson Padilla – TBC
12:00-13:00	Discussion: Cai, McCarthy, Stoppacher
13:00-14:30	Lunch
14:30-14:50	Diego Garcia Lambas – TBC
14:50-15:10	Dante Paz – Popcorn Voids: a new definition based on integrated density and free shape
15:10-15:30	Federico Dávila – Void Probability Function Inside Illustris Voids
15:30-16:00	Coffee
16:00-16:20	Violeta Gonzalez-Perez – Mocks with [OII] emitters
16:20-16:40	Elizabeth Gonzalez – Compact Groups analysis using weak gravitational lensing: CFHT Stripe 82 data
16:40-17:00	Federico Stasyszyn – Cosmic magnetic field growth with semi-analytic methods
17:00-18:00	Discussion: Garcia Lambas, Paz, Gonzalez-Perez