

Oct. 24 (Monday)

time	title	speaker
09:20 - 09:30	Welcome Remarks	Juhan Kim
Galaxy Surveys-I (Chair: Christophe Pichon)		
09:30 - 09:50	Future Optical/Near-Infrared Spectroscopy with DESI Upgrades and MegaMapper	David Schlegel
09:50 - 10:10	7-Dimensional Telescope for Multimessenger Astronomy and Spectral Mapping of the Universe	Myungshin Im
10:10 - 10:30	GMACS - A Moderate Resolution Optical Spectrograph for the Giant Magellan Telescope (online)	Daniel Fabricant
10:30 - 10:50	Latest Results from the Hobby-Eberly Telescope Dark Energy Experiment	Karl Gebhardt
10:50 - 11:10	Coffee Break	
Galaxy Surveys-II (Chair: Karl Gebhardt)		
11:10 - 11:30	Synergistic Redshift Tomography in the Era of Sky Surveys	Yi-Kuan Chiang
11:30 - 11:50	4MOST, 4HS, and the growth of cosmological structure (online)	Edward Taylor
11:50 - 12:10	A-SPEC: The All-sky SPECTroscopic survey of nearby galaxies	Ho Seong Hwang
12:10 - 12:30	Aspera: The UV Small-Satellite mission for mapping warm-hot gas in nearby galaxy halos (online)	Haeun Chung
12:30 - 14:00	Lunch	
Galaxy Clusterings-I (Chair: James M. Jee)		
14:00 - 14:20	Cosmological constraints from galaxy-galaxy lensing and galaxy clustering with HSC-Y1 and BOSS data: the first application of emulator-based halo model to cosmology analysis	Hironao Miyatake
14:20 - 14:40	3D clustering and connectivity of critical points with Lyman-alpha tomography	Katarina Kraljic
14:40 - 15:00	Observational Studies of Galaxy Intrinsic Alignments at $z > 1$	Motonari Tonegawa
15:00 - 15:20	Angular clustering and host halo properties of emission line galaxies at $z > 1$ in the Subaru HSC survey (online)	Teppei Okumura
15:20 - 15:30	Cosmological Information from Higher Order Clustering Statistics	Sumi Kim
15:30 - 16:00	Coffee Break	
Galaxy Clusterings-II (Chair: Bernardo Cervantes Sodi)		
16:00 - 16:20	Photometric Objects around Cosmic Webs (PAC) Delineated in a Spectroscopic Survey (online)	Yipeng Jing
16:20 - 16:40	Constraints to Λ CDM model with the redshift dependence of the Alcock-Paczynski effect from galaxy clustering	Fuyu Dong
16:40 - 16:50	Forecasting the success of next generation wide-field spectroscopic surveys on the extraction of cosmic web filaments around galaxy clusters (online)	Daniel Cornwell
16:50 - 17:10	Three methods for cosmological analysis in the non-linear clustering region (online)	Xiao-Dong Li
17:10 - 17:30	Understanding the formation of passive galaxies at high redshift: Why we need the JWST (online)	Clotilde Laigle

Oct. 25 (Tuesday)

Disc Galaxies (Chair: Hyung Mok Lee)

09:30 - 09:50	When do disks become bars? (online)	Elena D`Onghia
09:50 - 10:10	Lagrange and Liapunov stabilities of hierarchical triple systems (online)	Yasushi Suto
10:10 - 10:30	Gravity does it all. A top-down multiscale revisit of the resilience of thin galactic discs	Christophe Pichon
10:30 - 10:50	Quenching of massive disk galaxies (online)	Xi Kang
10:50 - 11:10	Coffee Break	

Cosmic Reionization & Large Scale Structure (Chair: Sukyoung K. Yi)

11:10 - 11:30	Redundant Measurement of the Global 21cm Background Spectrum	Kyungjin Ahn
11:30 - 11:50	The first galaxies and reionization: what we have learned from the SPHINX simulations	Joakim Rosdahl
11:50 - 12:10	Large-scale structure measurements from the Australian SKA Pathfinder observatory	David Parkinson
12:10 - 12:20	Revisiting constraints on neutrino mass by probing the morphology of large-scale structure	Priya Goyal
12:20 - 14:00	Group Photo & Lunch	

Galaxy Clusters & Environments - 1 (Chair: David Schlegel)

14:00 - 14:20	The early hot atmosphere of $z \geq 2$ (proto)clusters	Raphael Gobat
14:20 - 14:40	Matter distribution from galaxy clusters to cosmic filaments	Celine Guin
14:40 - 15:00	Co-evolution of Brightest Cluster Galaxies and Their Host Clusters in IllustrisTNG and HectoMAP	Jubee Sohn
15:00 - 15:10	Effects of local environment on AGN in Horizon-Run 5 simulation	Ankit Singh
15:10 - 15:20	Cosmology with Galaxy Clusters: impact of systematics and possible tension with CMB	Laura Salvati
15:20 - 15:40	Coffee Break	

Galaxy Clusters & Environments - 2 (Chair: Ho Seong Hwang)

15:40 - 16:00	Galaxy environments of extremely massive quasars (online)	Hyunsung Jun
16:00 - 16:20	Death at watersheds: galaxy quenching in low-density environments (online)	Maret Einasto
16:20 - 16:40	The growth of clusters of galaxies from their outskirts (online)	Michele Pizzardo
16:40 - 17:00	The Cosmic Mach Number as an Environment Measure (online)	Sadegh Khochfar
17:00 - 17:10	Tracking Halo Orbits and Their Mass Evolution around Large-scale Filaments	Hannah Jhee
17:10 - 17:30	Cosmological tests of the concordance model	Benjamin L`Huillier

Oct. 26 (Wednesday)

Discussion session

9:30 - 10:30

Open discussion

moderator : Ena Choi

10:30 - 10:50

Coffee Break

10:50 - 12:00

Open discussion

moderator : Jaehyun Lee

12:00 - 14:00

Lunch

14:00 - 18:00

Free afternoon

18:00 - 20:00

Workshop Banquet (@city center)

Oct. 27 (Thursday)

Theoretical Cosmology (Chair: Arman Shafieloo)

09:30 - 09:50	Galaxy zoo Z-S directed alignment vs theory spin prediction	Ue-Li Pen
09:50 - 10:10	Extracting Cosmological Information from the Topology of Large Scale Structure	Stephen Appleby
10:10 - 10:20	The Effect of Non-Gaussian Primordial Perturbations on Large-Scale Structure (online)	Greco Peña
10:20 - 10:30	If dark matter is fuzzy, the first stars form in massive pancakes (online)	Mihir Kulkarni
10:30 - 10:40	Can background distance measurement remove degeneracy between dark energy models? (online)	Avinash Singh
10:40 - 10:50	A standard siren measurement of the Hubble constant with gravitational-wave	Elahe Khalouei
10:50 - 11:10	Coffee Break	

Numerical Simulations-I (Chair: Kyungjin Ahn)

11:10 - 11:30	The ELUCID hydrodynamical simulation (online)	Xiaohu Yang
11:30 - 11:50	The Quiescent Galaxy Fraction of High-redshift Galaxy Groups and Clusters: Investigation Using the HR5 Simulation	Seong-Kook Lee
11:50 - 12:00	The Lyman-alpha cosmic web in IllustrisTNG	Chris Byrohl
12:00 - 12:10	The baryonic content of cosmic filaments in the IllustrisTNG simulation	Daniela Galárraga-Espinosa
12:10 - 12:20	Lognormal semi-numerical simulations of the Lyman- α forest: comparison with full hydrodynamic simulations	Bhaskar Arya
12:20 - 14:00	Lunch	

CMB and Theoretical Cosmology (Chair: Myungshin Im)

14:00 - 14:20	Cosmology with the Giant Magellan Telescope (online)	Matthew Colless
14:20 - 14:40	Perturbation Theory Remixed: Improved Nonlinearity Modeling beyond Standard Perturbation Theory	Donghui Jeong
14:40 - 14:50	Retrieving cosmological information from hot diffuse gas and reionisation signatures in CMB small scales	Marian Douspis
14:50 - 15:00	Measuring the matter-radiation equality scale	Benedict Bahr-Kalus
15:00 - 15:20	Towards analytic formulae for Betti numbers	Pravabati Chingangbam
15:20 - 15:40	Cosmic Birefringence: searching for parity-violating physics with the polarization of the Cosmic Microwave Background (online)	Patricia Diego-Palazuelos
15:40 - 16:00	Coffee Break	

CMB and Galaxies (Chair: Pravabati Chingangbam)

16:00 - 16:20	The CMB frontier (online)	Francois Bouchet
16:20 - 16:40	Low Surface Brightness Galaxies, structure, environment and the case of barred galaxies.	Bernardo Cervantes Sodi
16:40 - 17:00	Horizon Run 5 and massive black hole populations	Chunglee Kim
17:00 - 17:20	Anisotropic satellite accretion onto the Local Group with HESTIA	Alexandra Dupuy
17:20 - 17:30	Cross-Correlation of CMB lensing potential with galaxy catalogues (online)	Chandra Shekhar Saraf

Oct. 28 (Friday)

Deep-Field Cosmology (Chair: David Parkinson)

09:30 - 09:50	Cosmology with the MESSIER Surveyor	David Valls-Gabaud
09:50 - 10:00	NIRWL: Constraining the masses of galaxy overdensities at $z > 1$ in CANDELS and COSMOS through weak lensing in the near-infrared	Bomee Lee
10:00 - 10:20	Morphology of Galaxies from the Cosmic Morning to Afternoon	Changbom Park
10:20 - 10:40	Panspermia in a Milky Way-like Galaxy	Sungwook E Hong
10:40 - 11:10	Coffee Break	

Deep Learning (Chair: Sungwook E Hong)

11:10 - 11:30	Deep Learning Approaches to Large Scale Structure Cosmology	Cristiano Sabiu
11:30 - 11:40	Constraining Cosmology using Self-Attention	Se Yeon Hwang
11:40 - 11:50	Reconstruction of late-time Cosmology using Principal Component Analysis	Ranbir Sharma
11:50 - 12:00	Cosmology with Method of Iterative Smoothing	Hanwool Koo
12:00 - 14:00	Lunch	

Milky Way & Gravitational Lensing (Chair: Hironao Miyatake)

14:00 - 14:20	A Chemical Evolution Perspective On Galactic Archaeology	Fiorenzo Vincenzo
14:20 - 14:40	Outlier Detection in Gaia	Owain Snaith
14:40 - 14:50	Etherington duality breaking: gravitational lensing in non-metric spacetimes versus intrinsic alignments	Basundhara Ghosh
14:50 - 15:10	Constraining Self-interaction Cross-section of Dark Matter with Radio Relic Galaxy Clusters	M. James Jee
15:10 - 15:30	Deep search for dark matter subhalos in the Milky Way (online)	María Benito
15:30 - 15:50	Coffee Break	

Numerical Simulation-II (Chair: Myeong-Gu Park)

15:50 - 16:10	How Including New Physics Changes Galactic Evolution In Simulations: Perspectives in the Era of High-resolution Simulations	Ji-hoon Kim
16:10 - 16:20	Halo mass function in scale invariant models.	Swati Gavas
16:20 - 16:40	On the causal origin of properties of dark matter halos and galaxies: replacing galaxies in their cosmological environment (online)	Corentin Cadiou
16:40 - 16:50	Impact of Radiation Feedback on the Formation of Globular Cluster Candidates during Cloud-Cloud Collisions	Daniel Han
16:50 - 17:10	Closing Remarks	Changbom Park