

Agenda of First Shanghai Assembly

Sunday	18:00-20:00	Reception at Mehood Lestie Hotel	
Day 1: 2019/11/4			
8:50-9:00	Xiaohu Yang	Welcome and Opening Remarks	
Session 1: Large scale structure and cosmological probes, Chair: Pengjie Zhang			
9:00-9:25	Arman Shafieloo	H0 Tension: Systematics or New Physics?	KASI
9:25-9:50	Gongbo Zhao	TBD	NAOC
9:50-10:15	Baojiu Li	TBD (RSD or BAO Reconstruction)	Durham University
10:15-10:30	Yi Zheng	kSZ effect on cosmological gravity test	SYSU
10:30-11:00	Coffee Break		
Session 2: Structure Formation Simulations, Chair: Raul Angulo			
11:00-11:25	Xiaohu Yang	Elucid Project	SJTU
11:25-11:40	Metin Ata	Initial Density Field Reconstructions with Galaxy Surveys	IPMU
11:40-12:05	Noam Libeskind	The Hestia Project: constrained simulations of the local group	AIP Potsdam /IPNL Lyon
12:05-14:00	Lunch Break		
Session 3: Galaxy Formation in Simulations, Chair: Ho Seong Hwang			
14:00-14:25	Marta Reina-Campos	Formation and evolution of stellar clusters in a cosmological context: the E-MOSAICS simulations	Universität Heidelberg
14:25-14:40	Florent Renaud	How galaxy mergers have shaped the Milky Way	Lund Observatory
14:40-15:05	Andrea Maccio	Galaxies as cosmological probes	New York University Abu Dhabi
15:05-15:35	Coffee Break		
Session 4: Galaxy Formation in Simulations, Chair: Volker Springel			
15:35-16:00	Feng Yuan	AGN feedback study in a galactic scale	SHAO
16:00-16:25	Robert John James Grand	Gas accretion and galactic fountain flows in the Auriga cosmological simulations: angular momentum and metal re-distribution	Max-Planck-Institute for Astrophysics
16:25-16:40	Jolanta Zjupa	The role of galactic feedback in regulating angular momentum and intrinsic alignments of galaxies	Observatoire de la Côte d'Azur
16:40-16:55	Qirong Zhu	Go to Infinity in Real: Lattice Sum With Multipole Expansions	Carnegie Mellon University

Day 2: 2019/11/5

Session 1: Environments of Galaxies, Chair: Hong Guo

9:00-9:25	Cheng Li	Identifying groups of high-z galaxies from incomplete spectroscopic surveys	Tsinghua
9:25-9:50	Ho Seong Hwang	Evolution of environmental dependence of galaxy properties over cosmic time: comparison between observations and simulations	KASI
9:50-10:10	Clotilde Laigle	Group connectivity in COSMOS: A tracer of mass assembly history	Institut d'Astrophysique de Paris
10:10-10:40	Coffee Break		

Session 2: Environments of Galaxies, Chair: Cheng Li

10:40-11:05	Lingyu Wang	Deciphering the role of mergers in galaxy evolution	SRON - Netherlands Institute for Space University of Oxford / PMO
11:05-11:20	Hengxing Pan	Measuring the HI mass function below the detection threshold	PMO
11:20-11:45	Hong Guo	Clustering-Lensing Discrepancy	SHAO
11:45-12:00	Haojie Xu	Accurate Modeling of the Projected Galaxy Clustering in Photometric Surveys	SJTU
12:00-14:00	Lunch Break		

Session 3: Exploring the High Redshift Universe, Chair: Xi Kang

14:00-14:25	Xuelei Chen	The 21cm probe of Reionization	NAOC
14:25-14:40	Hyunbae Park	Implications of Baryonic-Dark Matter Streaming velocity on Reionization	IPMU
14:40-14:55	Hyunmi Song	Ly α Radiative Transfer: Modelling Spectrum and Surface Brightness Profile of Ly α -emitting Galaxies at z=3-6	KASI
14:55-15:10	Jian Yao	Cross correlation with Tianlai 21cm survey & DESI	SJTU
15:10-15:40	Coffee Break		

Session 4: Galaxy Observations, Chair: Lingyu Wang

15:40-16:05	Renbin Yan	Beyond the BPT diagnostic diagrams	University of Kentucky
16:05-16:30	Wenting Wang	The stellar halo of isolated central galaxies in the Hyper Suprime-Cam imaging survey	SJTU/IPMU
16:30-16:55	Tingwen Lan	Probing the Circumgalactic Medium with the SDSS	IPMU

Day 3: 2019/11/6, Free Afternoon & Banquet

Session 1: Halo Structure, Chair: Noam Libeskind

9:00-9:25	Jie Wang	Universality in the structure of dark matter haloes over 20 orders of magnitude in halo mass	NAOC
9:25-9:50	Raul Angulo	TBD	Donostia International Physics Center
9:50-10:15	Jiaxin Han	Towards optimal dynamical models of the Milky Way halo	SJTU
10:15-10:30	Zhaozhou Li	Constraining the Milky Way Mass Profile with Satellite Galaxies in Phase Space	SJTU
10:30-11:05	Conference Photo & Coffee Break		
11:05-11:30	Masami Ouchi	Exploring Early Galaxies and Cosmic Structures with Subaru, HST, and ALMA	NAOJ/U. Tokyo

Session 2: Posters, Chair: Haojie Xu, Each one has 2min talk+1min question

11:30-12:00	Saito Shun	Towards Lyman-alpha Intensity Mapping Cosmology in HETDEX	Missouri University of Science and Technology
	Yashpal Bhulla	Detection of the thermonuclear X-ray bursts and dips from the X-ray binary 4U 1323-62 with AstroSat/LAXPC	Pacific University, Udaipur
	Sung-Ho An	The Number Excess of Misaligned Interactions in the Spin-Orbit Alignment of Interacting Halo Pairs	Yonsei University
	Jenny Wagner	Halo mass densities from a statistical viewpoint	ZAH, Heidelberg University
	Cesar Hernandez-Aguayo	Galaxy clustering from modified gravity hydrodynamical simulations	Durham University
	Unnikrishnan Potty Sureshkumar	How galaxy properties trace their environment?	Jagiellonian University
	Raj Kumar Pradhan	The age and kinematic distributions of the Milky Way stellar halo	Tribhuvan University
	Gillian Dora Beltz-Mohrmann	Taking HOD modeling to the next level: results from SDSS and tests with hydrodynamic simulations	Vanderbilt University
	Jun-Sung Moon	On the origin of the spin-orbit alignment in galaxy pairs	Yonsei University

12:00-14:00 Lunch Break

14:00-17:00 Free Discussion

14:00-15:30 Carlos Frenk **Public Talk:** Everything from nothing: how the universe was made

17:00-20:00 **Conference Banquet Location:** Mingxin Cruise on the Huangpu River, the bund

Day 4: 2019/11/7

Session 1: Probing the Dark Matter Models, Chair: Jiaxin Han

9:00-9:25	Carlos Frenk	Astrophysical tests of the nature of the dark matter	Durham University
9:25-9:50	Ran Li	Exploring the identity of dark matter with strong gravitational lensing	NAOC
9:50-10:10	Keri Dixon	Clues to the nature of dark matter from first galaxies	New York University Abu Dhabi
10:10-10:40	Coffee Break		

Session 2: Probing the Dark Matter Models, Chair: Carlos Frenk

10:40-11:00	Xi Kang	Warm dark matter model with a few keV mass is bad for the too-big-to-fail problem	PMO
11:00-11:15	Ana Diaz Rivero	Strong gravitational lensing as a cosmological probe: new ways of finding substructure and constraining the particle nature of dark matter	Harvard University
11:15-11:40	Laurence Perreault Levasseur	Analysis of Strong Gravitational Lensing Data with Machine Learning	University of Montreal
11:40-12:05	Andrew Robertson	Constraints on self-interacting dark matter from galaxy clusters	Durham University
12:05-14:00	Lunch Break		

Session 3: Large scale structure and cosmological probes, Chair: Takahiro Nishimichi

14:00-14:25	Changbom Park	Minkowski Functionals and Minkowski Tensors in cosmology	KIAS
14:25-14:50	Shun Saito	Simulating emission-line galaxies for ongoing and future BAO surveys	Missouri University of Science and Technology
14:50-15:15	Christophe Pichon	When peaks, filaments or walls merge: forecasting special events through the coalescence of critical points	Institut d'Astrophysique de Paris
15:15-15:45	Coffee Break		

Session 4: Large scale structure and cosmological probes, Chair: Shun Saito

15:45-16:10	Keiichi Umetsu	Unveiling Cosmic Structure Formation by Cluster Lensing	ASIAA
16:10-16:35	Teppei Okumura	Intrinsic alignments of halo orientations with density and velocity fields at BAO scales and beyond	ASIAA
16:35-17:00	Takahiro Nishimichi	Emulating Halo Statistics for Large-Scale Structure Cosmology	Kyoto University

Day 5: 2019/11/8

Session 1: Large scale structure and cosmological probes, Chair: Changbom Park

9:00-9:25	Juhan Kim	Structure Formation in the Early Universe Viewed with the Horizon Run 5 Simulation	KIAS
9:25-9:50	Sownak Bose	Fundamental Cosmology with the Smallest Galaxies	Harvard-Smithsonian Center for Astrophysics
9:50-10:05	Taira Oogi	Clustering and halo occupation of AGNs using a semi-analytic model of galaxy formation	IPMU

10:05-10:35 Coffee Break

Session 2: Galaxy Assembly, Chair: Xiaohu Yang

10:35-11:00	Weiguang Cui	The connections of galaxy properties to halo formation history	University of Edinburgh
11:00-11:15	Antonios Katsianis	The evolution of the simulated and observed SFRs of galaxies in the Past 13 billion years	SJTU
11:15-11:30	Jesse Golden-Marx	Observationally Tracing Central Galaxy Assembly: The Stellar-Halo Mass-Magnitude Gap Relation	SJTU

11:30-14:00 Lunch Break

Session 3: Cosmic Voids, Chair: Yi Zheng

14:00-14:20	Kwan Chuen Chan	The large-scale bias of cosmic voids	SYSU
14:20-14:35	Junsup Shim	Identification of Cosmic Voids as the Cluster Counterpart	KIAS
14:35-14:50	Hei Yin Jowett Chan	New Insight into the Void-in-Cloud Process	Tohoku University
15:00-15:30		Summary of Meeting	