

Halo and Galaxy Assembly Bias - from Theory to Observation

Sunday 09 June 2019 - Friday 14 June 2019

**TDLI / SJTU-DoA
Programme**

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Sunday 09 June 2019

Workshop Reception - (18:00-21:00)

Monday 10 June 2019

Description and Origin of Halo Assembly Bias - Dept of Astronomy Meeting Room 507 (09:00-12:00)

- Conveners: Mo, Houjun

time	title	presenter
09:00	Opening Remarks	ZHENG, Zheng
09:10	Welcome Remarks	JING, Yipeng
09:20	Reconstructing the multivariate halo bias function in simulations	HAN, Jiaxin
09:45	The Multivariate Dependence of Halo Bias and a Simplified Description of Central Galaxy Assembly Bias	ZHENG, Zheng
10:10	Tea Break	
10:40	Neighbor Bias in Halo Clustering and Cosmological Forecasting with Cluster-Cross Correlations	SALCEDO, Andres
11:05	Halo and Galaxy Assembly Bias: from N-body numerical simulations to galaxy data	MONTERO-DORTA, Antonio
11:30	Discussion	

Lunch Break - (12:00-14:00)

Description and Origin of Halo Assembly Bias: afternoon - Dept of Astronomy Meeting Room 507 (14:00-16:40)

- Conveners: Shi, Jingjing

time	title	presenter
14:00	The tidal field and assembly bias	SHETH, Ravi
14:25	Assembly Bias with the Tessellation Level Tree	BUSCH, Philipp
14:50	Tea Break	
15:20	On the origins of assembly bias (oral talk)	MO, Houjun
15:45	What Causes Low-Mass Assembly Bias?	MANSFIELD, Philip
16:10	Discussion	

Tuesday 11 June 2019

Assembly Bias in Galaxy-Halo Connection - Dept of Astronomy Meeting Room 507 (09:00-12:05)

- Conveners: Berlind, Andreas

time	title	presenter
09:00	Assembly Bias and the Galaxy Content of Dark Matter Halos	ZEHAVI, Idit
09:25	The impact of assembly bias on the halo occupation in hydrodynamical simulations	ARTALE, Maria Celeste
09:50	The Evolution of Assembly Bias	CONTRERAS, Sergio
10:15	Tea Break	
10:45	Letting the Data Speak for Themselves: What Observations Tell Us About Galaxy Formation	KATZ, Neal
11:10	Accretion histories tracers - Halo profiles and galaxy properties	ADHIKARI, Susmita
11:35	Discussion	

Lunck Break - (12:05-14:00)

Assembly Bias in Galaxy-Halo Connection: afternoon - Dept of Astronomy Meeting Room 507 (14:00-16:40)

- Conveners: Zehavi, Idit

time	title	presenter
14:00	Galaxy assembly bias in different models of galaxy formation	WANG, Lan
14:25	Influence of assembly bias on galaxy star formation history	CHAVES-MONTERO, Jonas
14:50	Tea Break	
15:20	The formation history of sub-halos and its implications for satellite galaxy evolution	SHI, jingjing
15:45	Conditional Color-Magnitude Distribution of Present-day Galaxies	XU, Haojie
16:10	Discussion	

Wednesday 12 June 2019

Free Time - (09:00-17:00)

Thursday 13 June 2019

Observational Tests of Assembly Bias - Methods and Results - Dept of Astronomy Meeting Room 507 (09:00-12:05)

- Conveners: Lin, Yen-Ting

time	title	presenter
09:00	Can we detect secondary bias from measurements of galactic conformity or galaxy clustering?	BERLIND, Andreas
09:25	How to Optimally Constrain Galaxy Assembly Bias Using Galaxy Statistics	WANG, Kuan
09:50	Tea Break	
10:20	Probing the Galaxy-Halo Connection with Total Satellite Luminosity	TINKER, Jeremy
10:45	Observationally Tracing Hierarchical Assembly: The Stellar Mass - Halo Mass - Magnitude Gap Relation	GOLDEN-MARX, Jesse
11:10	Accurate Modeling of the Projected Galaxy Clustering in Photometric Surveys: I. Tests with Mock Catalogs	WANG, Zhaoyu
11:35	Discussion	

Lunch Break - (12:05-14:00)

Observational Tests of Assembly Bias - Methods and Results: afternoon - Dept of Astronomy Meeting Room 507 (14:00-17:05)

- Conveners: Tinker, Jeremy

time	title	presenter
14:00	On detecting assembly bias at galaxy cluster scales	LIN, Yen-Ting
14:25	Trying to detect assembly bias using redMaPPer BCG properties	SUNAYAMA, Tomomi
14:50	Where is the assembly bias - I still haven't found what I'm looking for	ZU, Ying
15:15	Tea break	
15:45	The galaxy-halo connection on the cosmic web	TOJEIRO, Rita
16:10	Constrain Massive Cluster Formation with SDSS	LI, Zhaozhou
16:35	Discussion	

Banquet - (17:30-20:30)

Friday 14 June 2019

Implications and Applications of Assembly Bias - Dept of Astronomy Meeting Room 507 (09:00-12:30)

- Conveners: Sheth, Ravi

time	title	presenter
09:00	Galaxy assembly bias and redshift space distortions	PADILLA, Nelson
09:25	The Effects of Galaxy Assembly Bias on the Inference of Growth Rate from Redshift-Space Distortions	MCCARTHY, Kevin
09:50	On the Biasing Effects of Galaxy Secondary Bias on Cosmological Inference	MCLAUGHLIN, Sean
10:15	Tea Break	
10:45	Halo Assembly Bias Effect Revealed by the Galaxy Neutral Hydrogen Content	GUO, Hong
11:10	Parametric vs non-parametric effective bias descriptions	KITAURA, Francisco
11:35	Model the Nonlinear Universe with Machine Learning	LI, Yin
12:00	Discussion	

Lunch Break - (12:30-14:00)