

THE ECOSYSTEM OF MASSIVE HALOS ACROSS COSMIC TIME

Higgs Centre for Theoretical Physics Workshop, 17-19 October 2022

<https://higgs.ph.ed.ac.uk/workshops/ecosystem-of-massive-halos/>

Monday Oct 17

10:30	COFFEE	
10:50	Romeel Davé	Welcome to Massive Halos 2022
11:00	Andy King	The Black Hole Scaling Relations
11:20	James Aird	Black hole growth across the population of galaxies and their large-scale environments
11:40	Becky Canning	AGN in massive halos
12:00	DISCUSSION	
12:30	LUNCH	
2:00	Leah Morabito	High resolution imaging with LOFAR: what we can learn about AGN
2:20	Chris Harrison	The importance of radio AGN feedback in massive quasar hosts across cosmic time
2:40	David Rosario	Red quasars and dusty outflows: a novel prospect to study cool-phase AGN feedback
3:00	DISCUSSION	
3:30	COFFEE	
3:50	Judith Croston	Jet populations and their evolving environments
4:10	Nicole Thomas	Environments of the radio galaxy population in SIMBA: Predictions from simulations in the era of the SKA
4:30	John Stott	Evidence for anisotropic quenching in massive galaxy clusters at $z \sim 0.5$
4:50	DISCUSSION	
5:30	WINE RECEPTION	HCTP Seminar Room

Tuesday Oct 18

9:50	Alastair Edge	Cold molecular gas in the cores of clusters and groups
10:10	Rita Tojeiro	Massive halos within the cosmic web
10:30	DISCUSSION	
11:00	COFFEE	
11:20	Arif Babul	Investigating massive central galaxies and the CGM cocooning them in Romulus group-scale halos
11:40	Weiguang Cui	The300 galaxy clusters: The GIZMO-SIMBA simulations
12:00	Fred Jennings	Generating and Analysing Realistic Mock X-ray Observations of Groups and Clusters in SIMBA
12:20	DISCUSSION	
12:50	LUNCH	
2:00	Ian Smail	Massive dusty star-forming galaxies
2:20	Annagrazia Puglisi	The key role of sub-mm observations to understand the star-forming Main Sequence
2:40	Chris Lovell	Modelling observables in Simba
3:00	DISCUSSION	
3:30	COFFEE	
4:00	OPEN FORUM	The landscape of present and future UK facilities
5:00	END OF DAY	
7:00	DINNER	<i>AMBER RESTAURANT, 354 Castlehill</i>

Wed Oct 19

9:30	Britton Smith	Before They Were Galaxies: Metal Enrichment of Mini-halos
9:50	Stijn Wuyts	Structural evolution of galaxies since cosmic noon
10:10	Tim Davis	The impact of massive compact halos on galaxies angular momenta: the case of 'superthin' galaxies
10:30	DISCUSSION	
11:00	COFFEE	
11:20	Romeel Dave	The baryon contents of massive halos
11:40	Vivienne Wild	Rapid star formation quenching events in simulations and observations
12:00	Freeke van de Voort	The effects of numerical resolution and magnetic fields
12:20	DISCUSSION	
12:50	LUNCH	
2:00	Andrew Pontzen	The CGM's role in galaxy quenching: controlled experiments
2:20	Jon Davies	Galaxy mergers can cause a transformation of the CGM around massive galaxies
2:40	DISCUSSION	
3:00	Romeel Davé	Closing remarks, END OF WORKSHOP

In Case of Interest: (not part of workshop program)

3:30	Arif Babul Colloquium (ROE)	Modeling the Formation and Evolution of Massive Galaxies in the Cosmos: Successes & Opportunities
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