



# Expanding the boundaries of dark matter halo

## Tuesday, May 27, 2025

### Halo finding & statistics - C204, Student Center (9:00 AM - 10:20 AM)

-Conveners: Susmita Adhikari

time	[id] title	presenter
9:00 AM	[52] Connecting theory and observations of halo boundaries	DIEMER, Benedikt
9:30 AM	[45] Rebuilding the Foundation of Large-Scale Structure: Defining Halo Substructure with Dynamics	OSINGA, Calvin
9:50 AM	[36] An ORIGAMI and Lagrangian view of halo and cosmic-web boundaries	NEYRINCK, Mark

### Halo finding & statistics - C204, Student Center (10:50 AM - 11:50 AM)

-Conveners: Susmita Adhikari

time	[id] title	presenter
10:50 AM	[27] Probing halo boundary and properties with satellite radial distribution	MAO, Yao-Yuan
11:20 AM	[34] Self-similar decomposition of the hierarchical merger tree of dark matter halos	Mr JIANG, Wenkang
11:35 AM	[21] Can blue-tilted primordial power spectrum save the small scale crisis in MW? – From the perspective of Zoom-In simulation for MW host size dark matter halo	WU, Jianhao

### Halo finding & statistics - C204, Student Center (2:00 PM - 3:05 PM)

-Conveners: Jiaxin Han

time	[id] title	presenter
2:00 PM	[46] The extent of a cluster's environment based on galaxy properties	O'NEIL, Stephanie
2:30 PM	[23] Strawberry: Binding particles to haloes using the full potential field	RICHARDSON, Tamara
2:50 PM	[41] Subhalo abundance matching with satellite fraction	XU, Xiaoju

### Halo finding & statistics - C204, Student Center (3:35 PM - 5:05 PM)

-Conveners: Jiaxin Han

time	[id] title	presenter
3:35 PM	[12] Can the splashback radius be an observable boundary of galaxy clusters	LEBEAU, Théo
3:55 PM	[17] Local Group Analogs in a cosmological context: Relating the velocity structure to the cosmic web	WANG, Kai
4:15 PM	[28] The Hierarchical Structure Around the Supercluster Abell 2029	Dr YU, Heng
4:35 PM	[58] The dynamical boundaries in dark matter halos: A study using UMAP	ADHIKARI, Susmita