

Valencia Workshop on the Small-Scale Structure of the Universe and Self-Interacting Dark Matter

Thursday 12 June 2025

Satellites/streams (9:30-13:19)

time	[id] title	presenter
9:30	[45] Review talk: Particle nature of dark matter with stellar streams	BONACA, Ana
10:10	[46] Shaping the Galactic potential: Environment, Mergers & Stellar Tracers	ARORA, Arpit
10:30	[47] Using stellar streams as dark matter detectors in the Milky Way-LMC collision	ERKAL, Denis
10:50	[53] The unabridged satellite luminosity function of Milky Way-like galaxies in Λ CDM: the contribution of “orphan” satellites	SANTOS-SANTOS, Isabel
11:10	Coffee break	
11:50	[72] Challenges and complexities of studying the fundamental nature of dark matter with stellar streams	THOMAS, Guillaume
12:10	[49] GravSphere2: An extended higher-order Jeans modeling approach	BAÑARES HERNÁNDEZ, Andrés
12:22	[9] SIDM interpretations of GD-1 and Crater II	ZHANG, Xingyu

Satellites/streams (15:30-18:30)

time	[id] title	presenter
15:30	[127] Review talk: Dark matter determinations in Local Group dwarf galaxies	BATTAGLIA, Giuseppina
16:10	[128] Feedback-independent constraints on halo structure from extended rotation curves: concentrations challenge LCDM (remote)	TRUJILLO-GOMEZ, Sebastian
16:30	Coffee break	
17:10	[130] Investigating the effect of stellar bars on the formation of dark matter halo cores	ANSAR, Sioree
17:30	[158] Challenges Posed by: Ultra-faint Dwarf Galaxies	KALLIVAYALIL, Nitya
17:50	[52] Moderated discussion	

Monday 16 June 2025

Satellites/streams (15:30-18:40)

time	[id] title	presenter
15:30	[69] Review talk: Satellite Galaxies and Stellar Streams as Probes of SIDM	NADLER, Ethan
16:10	[70] Probing Dark Matter From Intact, Disrupting and Disrupted Galaxies	LI, Ting
16:30	Coffee break	
17:10	[71] Probing Dark Matter Microphysics Using Stellar Streams	PARIKH, Aditya
17:30	[50] Dark matter halo properties of the Sculptor dwarf spheroidal galaxy.	ARROYO-POLONIO, José María
17:42	[153] Stellar streams as targets for indirect dark matter searches	FERNANDEZ, Cristina
17:54	[73] Moderated discussion	

Friday 20 June 2025

Satellites/streams (9:30-12:52)

time	[id] title	presenter
9:30	[117] Empirical dark matter profiles with symbolic regression	YASIN, Tariq
9:50	[118] Dark subhaloes in dwarf spheroidal galaxies	PEÑARRUBIA, Jorge
10:10	[119] DarkLight: Insights from the EDGE simulations on how baryons respond to halo evolution and their implications for SIDM	KIM, Stacy
10:30	[120] The stellar distribution in ultra-faint dwarf galaxies suggests deviations from the collision-less cold dark matter paradigm	SANCHEZ ALMEIDA, Jorge
10:50	[92] New ideas to find ultralight dark matter searches in astrophysical data	BLAS, Diego
11:10	Coffee break	
11:50	[113] The Precision Frontier of Dark Matter Constraints - from Direct Acceleration Measurements	CHAKRABARTI, Sukanya
12:10	[123] Novel Challenges in Tracking Self-Interacting Dark Matter Subhalos	KONG, Demao
12:22	[125] Moderated discussion	