

Tuesday 13 August

Session 1: Observational constraints on dark matter			Chair: Gauri Sharma
10:30 - 10:55	Sedona Price	Observational constraints on dark matter in galaxies over the last 10 billion years	in-person
10:55 - 11:10	Caroline Foster	The dynamical and morphological transformation of galaxies through cosmic time	in-person
11:10 - 11:25	Lai Yee Lilian Lee	The CRISTAL survey: Resolving kinematics of typical main-sequence star-forming galaxies at $4 < z < 6$	in-person
11:25 - 11:40	Teymoor Saifollahi	Weighing dark matter in dwarf galaxies in the Perseus galaxy cluster	in-person
11:40 - 11:55	Luísa Buzzo	A comprehensive view of the luminous and dark matter content of ultra-diffuse galaxies	in-person
11:55 - 11:58	E. d.T.	Dark matter halos and scaling relations of extremely massive spiral galaxies	in-person
11:58 - 12:01	Michael Fall	Dynamical evidence that galaxies of different morphologies occupy dark matter halos of different masses	in-person

Session 2: Observational constraints on dark matter			Chair: Jonathan Freundlich
13:30-13:55	Kyle Oman	The many ways that dwarf galaxy rotation curves can fail as mass tracers	in-person
13:55 - 14:10	Catherine Cerny	Probing Inner Dark Matter Density Profiles with MUSE Kinematics and Strong Lensing	in-person
14:10 - 14:25	Carlos Carneiro	Joint modelling of strong gravitational lensing and stellar dynamics.	in-person
14:25 - 14:40	Jessica Doppel	Imposters among us: globular cluster kinematics and the halo mass of ultra-diffuse galaxies in clusters	in-person
14:40 - 14:43	Surhud More	Linking galaxies with dark matter halos using weak gravitational lensing	online
14:43 - 14:46	Suchira Sarkar	Massive disc galaxies with high surface brightness plus low surface brightness stellar disks, hosted by massive dark matter halo - a TNG50 simulation study	online
14:46 - 14:49	Richard McDermid	The evolution of total mass density slopes, dark matter content, and orbital structure since $z=0.3$ from resolved integral field stellar kinematics from MAGPI	in-person
14:49 - 14:52	Famenontsoa Rakotondrainy	Comparative analysis of dark matter distribution in HI-rich galaxies	in-person
14:52 - 14:55	Nathan Deg	The Kinematic Scaling Relations of the WALLABY Pilot Galaxies	in-person
14:55 - 14:58	Mithi Alexa de los Reyes	Stellar Mass Calibrations in Low-Mass Galaxies	in-person

Session 3: LCDM challenges and simulations			Chair: Sedona Price
15:30 - 15:55	Federico Lelli	The dynamical scaling laws of rotation-supported galaxies	in-person
15:55 - 16:10	Pavel Mancera Piña	An ultra-deep and ultra-sharp view on gas-rich ultra-diffuse galaxies: a population defying CDM	in-person
16:10 - 16:25	Zahra Basti	Calibrating Mass Modeling Methods with Numerical Simulations of Galaxies	in-person
16:25 - 16:40	Nondh Panithanpaisal	Populations of Subhalos Beyond the Virial Radius: Splashback vs. Field Subhalos in FIRE	in-person
16:40 - 16:55	Michael Fall (p.p. Aaron Ludlow)	The impact of spurious collisional heating on the spatial distribution and kinematics of stellar and dark matter particles in simulated galaxies	in-person
16:55 - 16:58	Ji Hoon Kim	The Formation of Late-type Galaxies: Nature versus Nurture	in-person
16:58 - 17:01	Nikhil Arora	Quantifying the inner halo response to active galactic nuclei feedback in galaxies	in-person

Thursday 15 August

<b>Session 4: Constraining dark matter particle candidates</b>			Chair: XXX
10:30 - 10:55	Viviana Gammaldi	Invited talk: Dark matter searches in dwarf irregular galaxies with gamma-ray observatories.	online
10:55 - 11:10	Carlo Nipoti	Dwarf spheroidal galaxies as dark-matter laboratories	in-person
11:10 - 11:25	Nency Patel	Probing Dark Matter with Strong and Weak Gravitational Lensing Mass Models: A Case Study of Abell 2744	in-person
11:25 - 11:40	Donggeun Tak	An Indirect search for dark matter with a combined analysis of dwarf spheroidal galaxies from VERITA	in-person
11:40 - 11:55	Michael Sarkis	DarkMatters: the complete multi-wavelength WIMP emission simulator	in-person
11:55 - 11:58	Samuel Lange	A new Dark Matter detection? Testing lens model complexity in Strong Lensing	in-person
11:58 - 12:01	Oliver Newton	Constraints on the properties of $\nu$ MSM dark matter using the satellite galaxies of the Milky Way	in-person

<b>Session 5: Alternatives to LCDM</b>			Chair: Françoise Combes
13:30 - 13:55	Giulia Despali	Invited talk: Galaxy formation in alternative dark matter scenarios	online
13:55 - 14:10	Azadeh Fattahi	Galactic halos in alternative dark matter models	in-person
14:10 - 14:25	Francesca Fragkoudi	Probing dark matter with bar dynamics	in-person
14:25 - 14:40	Przemek Mroz	Constraints on primordial black holes as constituents of dark matter based on over 20 years of OGLE observations of the LargeMagellanicCloud	in-person
14:40 - 14:43	Surajit Kalita	Fast radio bursts as a probe to constrain primordial mass black holes made of dark matter	in-person
14:43 - 14:46	Victor Robles	Assessing the effect of supernovae feedback at the centre of dwarf halos of scalar field/fuzzy dark matter	in-person
14:46 - 14:49	Nilanjana Nandi	Dynamical lineage of HI-rich field ultra-diffuse galaxies	in-person
14:49 - 14:52	Роман Ткаченко	Constraints of the Dark Matter Concentration in the Solar Neighborhood Based on GAIA DR3 Catalogue	in-person
14:52 - 14:55	Connor Bottrell	From optical imaging to dark matter halo masses with simulation-based inference models	in-person

<b>Session 6: Perspectives and new techniques</b>			Chair: XXX
15:30 - 15:55	Francoise Combes	Invited talk: Alternatives to CDM, MOND or Axion-like particles	in-person
15:55 - 16:10	Florent Renaud	Probing dark matter (or its absence) with galaxy mergers	in-person
16:10 - 16:25	John McKean	Testing models for dark matter with extremely high angular resolution imaging of gravitational lenses	in-person
16:25 - 16:40	Jiani Chu	Galaxy stellar and total mass estimation using machine learning	in-person
16:40 - 16:55	Connor Stone	Caustics: a differentiable, GPU accelerated, gravitational lensing simulator	in-person
16:55 - 16:58	Anupreeta More	Towards statistical constraints on mass distributions of galaxies/groups from strong lens samples	online