



# Sixteenth Marcel Grossmann Meeting

## Monday, July 5, 2021

### Interacting Dark Matter: Block 1 (4:30 PM - 7:30 PM)

-Conveners: Nikolaos Mavromatos

time	[id] title	presenter
4:30 PM	[M104] Primordial Black Holes	GARCIA-BELLIDO, Juan
4:53 PM	[M118] Fuzzy Dark Matter	MARSH, David
5:16 PM	[M151] DM halos from the maximum entropy principle and its link to particle physics	ARGÜELLES, Carlos Raúl
5:39 PM	[M151] Interacting dark sector: mapping fields and fluids, and observational signatures	JOHNSON, JOSEPH P
5:59 PM	Break	
6:04 PM	[M158] LHC experiments for long-lived particles of the dark sector	MITSOU, Vasiliki
6:27 PM	[M198] The MoEDAL-MAPP Experiment - Extending the Physics Reach of the LHC	Prof. PINFOLD, James
6:50 PM	[M197] Constraining the dark matter self-interaction cross section in low-mass halos with quadruple image strong gravitational lenses	GILMAN, Daniel
7:10 PM	[M134] Growth of Linear Perturbations in a Universe with Superfluid Dark Matter	BANERJEE, Shreya

# Tuesday, July 6, 2021

## Interacting Dark Matter: Block 2 (9:30 AM - 12:30 PM)

-Conveners: Nikolaos Mavromatos

time	[id] title	presenter
9:30 AM	[M14] Running vacuum interacting with dark matter or with running gravitational coupling. Phenomenological implications	SOLÀ PERACOLA, Joan
9:53 AM	[M0] Dark energy and dark matter unification from dynamical space time: observational constraints and cosmological implications	BENISTY, David
10:13 AM	[M8] Interaction Energy between a Charged Medium and its Electromagnetic Field as a Dark Matter Candidate	Dr ARMINJON, Mayeul
10:33 AM	[M2] Constraining the interactions in the dark sector with cosmological data	GÓMEZ-VALENT, Adrià
10:56 AM	Break	
11:01 AM	[M] Hunting for light dark matter with gas-based detectors	MCCABE, Christopher
11:24 AM	[M6] Fornax globular cluster timing problem as a test of dark matter properties	BLAS, Diego
11:47 AM	[M8] Gravitational anomalies, dark matter and leptogenesis	SARKAR, Sarben
12:10 PM	Discussion on the talks of the two blocks of DM1	