



# IDM 2022

## Monday, 18 July 2022

### Parallel 1C - Direct detection II - E19 (14:00 - 16:00)

-Conveners: Michelle Galloway

time	[id] title	presenter
14:00	[131] Neutron yield calculation with SOURCES4 and comparison with other codes and experimental data	Prof. KUDRYAVTSEV, Vitaly
14:20	[171] Muon-induced background in a next-generation dark matter experiment based on liquid xenon	PEC, Viktor
14:40	[163] Neutron tagging with gadolinium-loaded PMMA	CAMINATA, Alessio
15:00	[136] Towards a Gas Filtration Setup for Ultra-Sensitive SF <sub>6</sub> Gas Based Dark Matter Searches	MARCELO GREGORIO, Robert Renz
15:10	[193] Reduction in radioactivity-induced backgrounds using a novel active veto detector for rare event search experiments	Ms CHAUDHURI, Mouli
15:20	[84] The LZ Outer Detector	Dr MONTE, Alissa
15:40	[101] Background model and statistical analysis in the LUX-ZEPLIN experiment	OLCINA SAMBLAS, Ibles

### Parallel 1C - Direct detection II - E19 (16:30 - 18:40)

-Conveners: Elisabetta Baracchini

time	[id] title	presenter
16:30	[31] The NEWSdm experiment for directional dark matter searches	TIOUKOV, Valeri
16:50	[191] DM directionality approach using ZnWO <sub>4</sub> crystal scintillators	CARACCILOLO, Vincenzo
17:10	[176] Anisotropic ionization threshold and directional sensitivity in solid state DM detectors	HEIKINHEIMO, Matti
17:30	[50] Venturing into the neutrino fog	O'HARE, Ciaran
17:50	[166] Dark matter searches using levitated optomechanics	Mr JAMES, Robert
18:10	[37] The CYGNO/INITIUM experiment	DHO, Giorgio
18:20	[71] Directional performances of MIMAC in the keV-range: the reconstruction of 8 keV and 27 keV neutron spectra	BEAUFORT, Cyprien
18:30	[155] Mesh Transparency of Electrons in a MMThGEM Gain Stage Device for Directional Dark Matter Searches	MCLEAN, Alasdair