



# The 59th Winter Nuclear & Particle Physics Conference (WNPPC2022)

## Tuesday, 15 February 2022

### Dark Matter Searches (10:00 - 11:12)

-Conveners: Katherine Pachal

time	[id] title	presenter
10:00	[63] The Scintillating Bubble Chamber (SBC) Experiment for Dark Matter and Reactor CEvNS	GIAMPA, Pietro
10:24	[10] Simulation-based Studies of the Fiducialization of SNOGLOBE for the NEWS-G Experiment	GARRAH, Carter
10:36	[50] Machine Learning for Noise Removal in NEWS-G	ROWE, Noah
10:48	[38] DEAP-3600 Dark Matter Experiment Stability and $^{39}\text{Ar}$ Decay Analysis	KAUR, Gurpreet
11:00	[48] Nucleation Efficiency of Nuclear Recoils in Bubble Chambers	DURNFORD, Daniel

# Wednesday, 16 February 2022

## Dark Matter Searches: theory & experiment (10:00 - 11:12)

-Conveners: Erica Caden

time	[id] title	presenter
10:00	[61] The Piezoaxionic Effect	MADDEN, Amalia
10:12	[3] The ANITA Anomalous Events and Axion Quark Nuggets	LIANG, Xunyu
10:24	[52] Direct Detection Constraints on Super Heavy Dark Matter Using DEAP-3600 Detector	GARG, Shivam
10:36	[8] Discovering Composite Dark Matter with the Migdal Effect	ACEVEDO, Javier
10:48	[51] New Background Discrimination Methods for the NEWS-G Dark Matter Search Experiment	COQUILLAT, Jean-Marie
11:00	[39] Detector Response Simulation for NEWS-G Dark Matter Experiment	DENG, Yuqi