



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

## Tuesday, February 15, 2022

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

-Conveners: Katherine Pachal

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

# Wednesday, February 16, 2022

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

-Conveners: Erica Caden

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