

Status and Future Prospects of the DEAP-3600 Dark Matter Search

Saturday, 30 June 2018 17:00 (30 minutes)

DEAP-3600 is a single phase dark matter detector located at SNOLAB, in Sudbury, Ontario. The detector consists of 3.3 tonnes of liquid argon (LAr), viewed by an array of 255 PMTs through 50 cm of acrylic. DEAP-3600 began operations in May 2016, and it has been running stably since November 2016. Analysis of the data taken so far demonstrates the power of pulse shape discrimination to reject electron-recoiling backgrounds and record low levels of radon contamination. Results from the current analysis and future plans will be presented.

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