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Status of the MiniCLEAN Experiment

Friday, August 7, 2015 4:00 PM (18 minutes)

Single-phase liquid argon detectors offer a technically simple approach towards a very massive detector for the direct detection of dark matter with potential to extend sensitivity into the "background floor"imposed by the coherent scattering of extraterrestrial neutrinos. MiniCLEAN, with a target mass of 500 kg, serves as a prototype to demonstrate this approach. Event energy and position are reconstructed in three dimensions and a powerful means of pulse-shape discrimination separates nuclear recoil events from electromagnetic background. The MiniCLEAN experiment is now being commissioned at the 6800 foot level in SNOLAB's Cube Hall. We will provide a status report and plans for the MiniCLEAN experiment.

Oral or Poster Presentation

Oral

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Session Classification: AstroParticle, Cosmology, Dark Matter Searches, and CMB

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