

A Dark Matter Search with The MAJORANA Low-Background Broad Energy Germanium Detector

Monday, 9 September 2013 15:00 (20 minutes)

The MAJORANA DEMONSTRATOR is an array of natural and enriched high purity germanium detectors that will search for the neutrinoless double-beta decay of germanium-76 and perform a search for WIMPs with masses below 10 GeV. As part of the MAJORANA research and development efforts, we have deployed a modified, low-background broad energy germanium detector at the Kimballton Underground Research Facility. With its sub-keV energy threshold, this detector is potentially sensitive to non-Standard Model physics, including interactions with weakly interacting massive particles. This presentation will discuss recent results from a WIMP search with this detector.

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