Type: Poster

## Performance of DAMIC at SNOLAB

Wednesday, 11 September 2013 19:30 (2h 30m)

Published DAMIC limits based on 107 g-days of data taken in a 350' underground site yielded the world's best cross-section limits on WIMPs with masses less than 4 GeV. This was possible due to the CCD's low electronic readout noise (R.M.S. ~10 eVee), which allows the instrument to reach a detection threshold below 0.5 keV for nuclear recoils in the Si target. The superb energy response and high spatial resolution of the CCD image also provide powerful characterization of the detector backgrounds. Here we present the performance and background studies of a new 5 g detector running at SNOLAB since December 2012

Primary author:Dr TIFFENBERG, Javier (Fermilab)Presenter:Dr TIFFENBERG, Javier (Fermilab)Session Classification:Poster Session

Track Classification: Dark Matter