



CERN Joint EP/PP Seminars

SPEAKER: Prisca Cushman (University of Minnesota)
TITLE: **Results from the final 5-tower run of CDMS**
DATE: Fri 18/12/2009 11:00
PLACE: Main Auditorium

ABSTRACT

I will present new results from the recent blind analysis of 612 kg-days of raw exposure using the CDMS germanium detectors at Soudan. CDMS uses ionization and athermal phonon signals to discriminate between candidate (nuclear recoil) and background (electron recoil) events in Ge crystals cooled to ~ 50 mK. Timing, yield, and position information allows us to tune our expected background leakage into the signal region to less than one event. I will report on what we saw when we “opened the box”, whether we have seen WIMPs or not, and implications for future dark matter direct detection experiments.