



ID de Contribution: 173

Type: Talk

Background Rejection in DRIFT

mardi 27 juillet 2010 11:55 (20 minutes)

The DRIFT dark matter detector is a 1 m³ scale TPC with direction sensitivity to WIMP recoils operating in the Boulby Mine in England. Our primary background are from low-energy nuclear recoil events due to radon progeny plated out on the detector's wire central cathode. Here we describe a dramatic background reduction resulting from the installation of a new thin-film central cathode. We also describe a new technique which promises to fully fiducialize the chamber, potentially eliminating this source of background entirely.

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Classification de Session: Parallel session : Direct Searches 2

Classification de thématique: Dark Matter Direct Searches