ID de Contribution: **73** Type: **Non spécifié**

Dark Matter directional detection with MIMAC

vendredi 6 décembre 2013 11:10 (25 minutes)

Directional detection is a promising direct Dark Matter (DM) search strategy. The angular distribution of the nuclear recoil tracks from WIMP events should present an anisotropy in galactic coordinates. This strategy requires both a measurement of the recoil energy with a threshold of about 5 keV and 3D recoil tracks down to few millimeters. The MIMAC project, based on a mu-TPC matrix, with CF4 and CHF3, is being developed. In June 2012, a bi-chamber prototype was installed at the LSM (Laboratoire Souterrain de Modane). A preliminary analysis of the first four months data taking allowed, for the first time, the observation of recoils from the 222Rn progeny.

Auteur principal: M. RIFFARD, Quentin (LPSC)

Orateur: M. RIFFARD, Quentin (LPSC)

Classification de Session: Cosmologie

Classification de thématique: Cosmologie