ID de Contribution: **21** Type: **Ordinary**

Dark Matter Search Results from the PICO-60 C_3F_8 Bubble Chamber

jeudi 23 mars 2017 17:40 (15 minutes)

The PICO collaboration searches for dark matter particles using superheated fluid detectors, or bubble chambers. These detector can be made inherently insensitive to gamma and beta radiation, while the additional background suppression required to obtain sensitivity to the elusive dark matter signal is achieved with the acoustic signature of the bubble nucleation that allows the identification of alpha particles. In this talk I will present the most recent results obtained with the PICO-60 C_3F_8 bubble chamber at SNOLAB, in Sudbury, Canada, that set the most stringent constraints on the dark matter signal in the WIMP-proton spin-dependent interaction.

Auteur: Dr GIROUX, Guillaume (Queen's University)

Orateur: Dr GIROUX, Guillaume (Queen's University)

Classification de Session: Dark Matter & Axions (cont)

Classification de thématique: Experiment