



Contribution ID: 226

Type: **Poster**

Jingqiang Ye (UC San Diego): XENON1T Dark Matter Search Experiment

Wednesday 21 February 2018 18:52 (1 minute)

The XENON1T Experiment uses a liquid xenon Time Projection Chamber to search for Nuclear Recoils (NR) caused by hypothesized Weakly Interacting Massive Particles (WIMPs). The detector can get both scintillation signal and charge signal, and reject most Electronic Recoils background by utilizing the difference in the ratio of charge signal and scintillation signal. I will present the experimental setup, and dark matter search results obtained from the first 34.2 days of data. In addition, I will present the study of the position reconstruction and field distortion corrections that lead to an improved analysis for the new dark matter search data.

Author: YE, Jingqiang

Presenter: YE, Jingqiang

Session Classification: Poster Session