

The ionization-signal-only analysis and results in PandaX-4T experiment

Wednesday, 10 July 2024 15:40 (20 minutes)

The ionization-signal-only can lower the energy threshold of the liquid xenon time projection chamber. In this talk, we will report the results of light dark matter searching with ionization-signal-only in the PandaX-4T experiment. In addition, we investigated the source of the dominant backgrounds, including cathode and micro-discharging backgrounds, in ionization-signal-only events with PandaX-4T data.

Primary author: LI, Shuaijie (Yalong Hydro)

Presenter: LI, Shuaijie (Yalong Hydro)

Session Classification: Parallel 1

Track Classification: Parallel session: Light Dark Matter