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Overview of PandaX-4T recent results

Saturday, 11 December 2021 14:40 (20 minutes)

The PandaX-4T experiment will utilize a two-phase liquid/gas xenon time projection chamber to search dark matter. The PandaX-4T is located in the Hall B2 of the Jinping Underground Laboratory with 2400 m overburden. In the commissioning run, 1058 candidate events are identified with 3.7-tonne of liquid xenon target and an exposure of 0.63 tonne $\cdot$ year. A stringent limit to the dark matter-nucleon spin-independent interactions is set with a lowest excluded cross section (90% C.L.) of 3.8×10^{-47} cm^2 at a dark matter mass of 30 GeV/c2. An details of the detector performance and data analysis will be presented in this talk.

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