

Dark Matter Results from First Data of the PandaX-II Experiment

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The Particle and astrophysical Xenon (PandaX) project is a series of xenon-based ultra-low background experiments in the China JinPing underground Laboratory (CJPL) targeting the unknown physics of dark matter and neutrinos. The first and second stage experiments (PandaX-I and II) both utilize dual-phase xenon time projection chamber (TPC) to carry out direct search for the dark matter particles. PandaX-II, a half-ton scale experiment, is currently under operation, and produced leading limits on dark matter-nucleon spin independent and spin dependent scattering cross sections in 2016. In this talk, I shall present an overview of the PandaX project and the results from the first data of the PandaX-II experiment.

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