

Dark matter search results from the PandaX-II experiment

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The nature of dark matter is one of the most fundamental problems in physics. One compelling class of dark matter particles are the so-called WIMPs (Weakly Interacting Massive Particles), which can be searched in deep underground direct detection experiments. The PandaX (Particle AND Astrophysical Xenon) project is a staged xenon-based underground experiment at the China Jin-Ping Underground Laboratory. Using a dual phase xenon time projection chamber (TPC) technology, the second phase of the experiment, PandaX-II, contains more than half ton liquid xenon in the sensitive volume for WIMP dark matter searches. PandaX-II started the data taking in 2016. In this talk, I will report the current status of the experiment, and present recently released results.

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