

Status of PandaX dark matter experiments

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PandaX dark matter experiments use liquid xenon as target to search for dark matter particles at the China Jinping Underground Laboratory. The second phase of the experiments, PandaX-II, with 580 kg liquid xenon in the sensitive volume, has finished data taking in 2019 and collected 140 ton day of dark matter search data set in total. The next experiment under preparation, PandaX-4T, with 4 ton liquid xenon in the sensitive volume, is expected to improve the detection sensitivity by one order of magnitude compared to PandaX-II. In this talk, I will discuss recent progress and status of the PandaX dark matter experiments.

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