

The PandaX Dark Matter Experiment

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PandaX is a dark matter direct detection experiment with xenon located in the China Jinping Laboratory. The collaboration was established in 2009. Its first stage, PandaX-I, started to take data in May, 2014 and stopped running in the end of Oct, 2014. Its first dark matter searching results based on 17.4 live days of data was released in Aug 2014, and disfavor all previously claimed possible dark matter signals by other experiments. The final data analysis results of PandaX-I based on 80.1 live days of data were released in this May with many updates in analysis methods, and verified PandaX-I first results. The second stage, PandaX-II, is being tested and will start operation in this year. The detector will contain 500kg of xenon and we hope it will set the most stringent limit for dark matter after one year of running.

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