

Overview of the status and plan of the PandaX experiment

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The PandaX experiment uses liquid xenon as the target material to perform the dark matter direct detection at China Jinping Underground Laboratory. Recently, the PandaX-II experiment with 580 kg liquid xenon in the sensitive volume just finished the data-taking and the total exposure is around 140 ton-day. Meanwhile, the PandaX collaboration is planning for the next generation multi-ton liquid xenon experiment. The immediate next step is a 4-ton scale liquid xenon experiment, PandaX-4T, with which we expect to extend the sensitivity to WIMP search by one order of magnitude as compared to the PandaX-II experiment. In this talk, I will discuss the latest results from the PandaX-II experiment and the progress of the PandaX-4T experiment.

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