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PandaX-4T: A Multi-Ton Liquid Xenon Detector for Dark Matter and Neutrino Physics

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Dark matter, a new non-luminous matter which is induced from the astronomical observation, play a leading role in the universe component. PandaX dark matter direct detection experiment established from 2009 have been operated for three phases with 120-kg to 4-ton target liquid xenon. The PandaX-4T experiment, located at China JinPing Underground laboratory II, started the data taking from 2020 and have been released the first commissioning result for the dark matter and neutrino analysis. In this report, I will introduce the PandaX-4T main technical improvements, operation conditions and the brief physical results.

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