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Neutrino Physics with PandaX

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Large liquid xenon Time Projection Chambers (TPC) with multi-ton of active mass, such as PandaX-4T, are becoming a powerful tool for neutrino physics. The detector has 350 kg of Xe-136 and can be used to precisely measure the double beta decay spectrum and search for neutrinoless double beta decay (NLDBD). PandaX-4T also has a large amount of another NLDBD candidate isotope, Xe-134 for related searches. As a large, low-background, low-threshold detector, PandaX-4T can detect solar neutrinos, including those from pp chain and B-8 decays. We will present the detector performance at high energy and the physics potential to neutrino physics with PandaX.

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