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Neutrinoless Double Beta Decay Experiments in China

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Searching for the neutrinoless double beta decay ($0\nu\nu\beta\beta$) in experiment is now regarded as the topmost promising instrument to explore the nature of neutrinos. Many international collaborations search for this rare nuclear decay through different detector techniques. In China, the CDEX and PandaX experiments at the China Jinping Underground Laboratory (CJPL) have carried out the $0\nu\nu\beta\beta$ search based on the existing experimental conditions. The CUPID-CJPL experiment based on the bolometric technology, the NEMEx experiment based on the ion time projection chamber, and JUNO- $0\nu\nu\beta\beta$ based on the liquid scintillator detector are actively being developed. In this talk, we report the status, progress, and future planning of the $0\nu\nu\beta\beta$ experiments in China.

Primary author: WANG, Shaobo (Shanghai Jiao Tong University)

Presenter: WANG, Shaobo (Shanghai Jiao Tong University)

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