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The PandaX-4T Dark Matter Experiment

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The PandaX-4T experiment, one of the most sensitive dark matter search experiments to date, employs a two-phase liquid/gas xenon time projection chamber containing 4 tonnes of liquid xenon. The primary goals are to detect dark matter and to probe neutrino properties. Located in the Jinping Underground Laboratory in Sichuan, China, with 2400 meters of rock overburden for shielding against cosmic radiation. This talk will provide a comprehensive overview of the detector design, operational conditions during the science runs, and the latest findings in dark matter and neutrino physics.

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