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【343】 New Results from the XENON1T Dark Matter Experiment

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The XENON1T experiment searches for Weakly Interacting Massive Particle (WIMP) dark matter candidate with a dual-phase xenon Time Projection Chamber (TPC) located at Laboratori Nazionali del Gran Sasso, Italy, under 3600 m.w.e. overburden. The detector, in operation since summer 2016, employs 3.3 tonnes of liquid xenon, 2 of which are used as target mass. The newest result from 278.8 days of collected data in a inner fiducial volume of 1.3 tonnes (corresponding to 1 tonne-year exposure) will be presented. The focus will be on the experimental apparatus, and on the analysis that led XENON1T to being the currently most sensitive direct detection WIMP experiment.

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