Kashiwa-no-ha park next to Kavli IPMU

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Latest Results from the XENON1T Dark Matter Project

Tuesday, 4 June 2019 14:15 (15 minutes)

The most recent results from XENON1T, the world largest direct dark matter search experiment, will be presented. XENON1T is a dual-phase xenon Time Projection Chamber (TPC) using 248 low radioactivity PMTs to detect scintillation signals in a 2-ton active liquid xenon target. Since November 2016, the XENON1T detector is continuously taking data, with a background rate of more than one order of magnitude lower than any current generation dark matter search experiment. This talk will summarize the dark matter search results of XENON1T using 278.8 days of data collected between November 2016 and February 2018.

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Session Classification: JHW