

XENON1T: Searching for WIMPs at the Ton Scale

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The XENON collaboration seeks to measure WIMP-nucleon interactions using liquid xenon time projection chambers (TPCs). The experiment is a staged process, with the most recent iteration, XENON1T, currently in operation at the Gran Sasso National Laboratory in Italy. This TPC uses 3.5 tons of liquid xenon total and will achieve an unprecedented sensitivity to the WIMP-nucleon cross section with 2.0 tons of liquid xenon in the target.

XENON1T has been in operation collecting science data since Fall 2016. This talk will present the latest updates from the first dark matter exposure.

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