

LZ status

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LUX-ZEPLIN (LZ) is a dark matter direct detection experiment located at the Sanford Underground Research Facility in Lead, South Dakota. At the heart of the detector is a dual-phase time projection chamber containing 7 tonnes of active liquid xenon. During its 1000-day science run, LZ aims to achieve unprecedented sensitivity to Weakly Interacting Massive Particles (WIMPs) down to a WIMP-nucleon spin-independent cross section of about $1.4 \times 10^{-48} \text{ cm}^2$ for a $40 \text{ GeV}/c^2$ mass WIMP. In this talk, I will give an overview of the LZ experiment and report on its status and performance during its first science run.

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