

Status of the LUX-ZEPLIN (LZ) Experiment's Search for WIMP Dark Matter

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The LUX-ZEPLIN (LZ) experiment is actively collecting physics data in the search for WIMP dark matter and other novel physics interactions nearly a mile underground at the Sanford Underground Research Facility. LZ presents an unprecedented sensitivity for discovering WIMP-nucleon interactions by employing a 7-tonne liquid xenon time-projection chamber surrounded by a three-component veto system: a liquid-xenon skin, a nearly-hermetic Gd-loaded liquid scintillator, and an instrumented, ultra-pure water tank. In this talk, I will present the status of the LZ experiment and its search for WIMP dark matter and other new physics phenomena.

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