

Contribution ID: 815

Type: Parallel

Results from and Status of the LUX-ZEPLIN Experiment

Tuesday 8 July 2025 17:30 (17 minutes)

The LUX-ZEPLIN (LZ) experiment is a dark matter direct detection experiment operating almost a mile underground at the Sanford Underground Research Facility in Lead, South Dakota. LZ uses a 7 active-tonne dual-phase xenon time projection chamber primarily designed to detect weakly interacting massive particles (WIMPs), a well-motivated class of dark matter candidate. This talk will give the status of the LZ experiment, report on its latest dark matter results and discuss searches for other new physics phenomena.

Secondary track

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Session Classification: T02

Track Classification: T02 - Dark Matter