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## Status of the LUX-ZEPLIN Dark Matter Experiment

*Monday 26 August 2024 14:00 (40 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 and report the latest on its searches for dark matter and other new physics phenomena.

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**Track Classification:** Applications (dark matter, neutrino, precision frontier, medicine, etc.): Dark matter