Contribution ID: **232** Type: **Oral**

Results from and Status of the LUX-ZEPLIN Experiment

Monday 25 August 2025 14:20 (20 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 world-leading dark matter results and discuss searches for other new physics phenomena.

Collaboration you are representing

LUX-ZEPLIN (LZ)

Author: COTTLE, Amy (University College London)

Presenter: COTTLE, Amy (University College London)

Session Classification: Dark Matter and Its Detection

Track Classification: Dark Matter and Its Detection