

The LUX ZEPLIN Experiment

The LUX-ZEPLIN (LZ) experiment is a 7 ton active mass dual-phase liquid xenon time projection chamber with the goal of making direct observation of Weakly Interacting Massive Particles interactions with standard matter. LZ

published first results of data taken from December 2021 to May 2022, finding it consistent with background only, no WIMP hypothesis. Since first publishing, LZ has continued to acquire more science data as well as publishing additional physics analysis searches. I will present an overview of the LZ experiment and current status.

Primary author: HERNANDEZ, Miguel

Presenter: HERNANDEZ, Miguel