

Abstract Submitted  
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**TPC GRID DESIGN IN LUX-ZEPLIN(LZ) AND LZ SYSTEM  
TEST WEI JI, SLAC - Natl Accelerator Lab, LZ COLLABORATION<sup>1</sup>** — The lux-zeplin (lz) project is a dark matter direct detection experiment using liquid xenon in a large time projection chamber. The detection scheme requires an electric drift field and efficient light collection for the scintillation and charge signals, respectively. These requirements lead to design challenges for the thin wire grids and meshes that establish the fields with minimal impact on light collection and field non-uniformity. This talk will present the lz design, as informed by simulations and laboratory tests in the lz system test platform at slac.

<sup>1</sup>LUXZEPLIN

Wei Ji  
SLAC - Natl Accelerator Lab

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