

Noble liquid detector R&D with the LZ System Test platform at SLAC

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LZ is a next generation dark matter search experiment designed to significantly extend our sensitivity to WIMP dark matter. At the core of the LZ design is a dual-phase Xe time projection chamber (TPC) with 7 tonnes of active volume. The LZ System Test platform has been constructed at SLAC and consists of three mid-size xenon detectors that, together, test and validate the performance of critical LZ subsystems at scales approaching or comparable to the LZ design. An overview of the test platform will be given, followed by recent results relevant to many noble liquid detectors.

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