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First results from the LZ dark matter experiment

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LUX-ZEPLIN (LZ) is a direct dark matter detection experiment aiming to detect rare events resulting from the scattering of Weakly Interacting Massive Particles (WIMPs). It employs a dual-phase xenon time projection chamber (TPC) with an active mass of 7 tonnes (5.6 tonne fiducial), surrounded by an instrumented xenon skin and liquid scintillator active vetoes. I will give an overview of the LZ project and present its first dark matter search results.

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