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Neutrino physics in LUX-ZEPLIN (LZ)

LUX-ZEPLIN (LZ) is a 10-tonne xenon time projection chamber optimized for the detection of dark matter particles, that is expected to begin science operations in 2021 at Sanford Underground Research Facility, USA. Because of its large mass of natural xenon and very low background levels, LZ will be also able to conduct relevant research in several areas of neutrino physics. In this talk, I will highlight the features of LZ that are important for the neutrino physics analyses of the experiment, and will discuss the expected sensitivity to neutrino signals, such as enhancements due to neutrino magnetic moment, or rare decays of xenon isotopes.

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