

Abstract Submitted
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R&D Toward Ton-Scale HPGXe Neutrinoless Double Beta Decay Experiments LESLIE ROGERS, Univ of Texas, Arlington — NEXT is a high pressure Xenon gas time projection chamber experiment searching for Neutrinoless Double Beta decay which is scalable to the ton-scale. In order to scale up to this size there are some technical details to be worked out which UTA has begun work towards by building a large scale testing facility to test high voltage feed throughs, field cages, and electroluminescence regions that we will design at sizes not yet demonstrated before.

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