

Abstract Submitted  
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**Cosmogenic Backgrounds for Double Beta Decay** JOSHUA ALBERT, Indiana University, EXO COLLABORATION —  $^{136}\text{Xe}$  is a very promising candidate isotope for neutrino-less double-beta decay searches, so reducing backgrounds that can mimic signals of this rare decay is a critical task for current and future experiments, such as EXO-200 and nEXO. One important category of backgrounds are those induced by neutrons produced by cosmic ray muons. These backgrounds can be studied in EXO-200 by selecting data shortly after the muon panels are triggered, making a “neutron enriched” data sample. This data is then checked against Monte Carlo simulations of these backgrounds. The results and insights from this study will be discussed.

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