

Abstract Submitted  
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**Analysis of dissolved radon calibration sources in EXO-200** ERIN HANSEN, University of California, Berkeley, EXO-200 COLLABORATION — The EXO-200 experiment, which ran from 2011 to 2018, used enriched liquid xenon in a low-background single-phase time projection chamber to search for neutrinoless double beta decay of  $^{136}\text{Xe}$ . At the end of physics running, the xenon volume was doped first with  $^{220}\text{Rn}$  and then several days later with  $^{222}\text{Rn}$  to test these alpha-emitting decay chains as light calibration sources. This talk will discuss the source deployments and data collection, analysis of resulting decay chain events in EXO-200, and implications for using injected radon sources to calibrate light response for single-phase liquid xenon time projection chambers.

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