

Abstract Submitted
for the HAW14 Meeting of
The American Physical Society

Low background counting of ^{222}Rn , ^{220}Rn and ^{219}Rn with electrostatic counters¹ BRIAN MONG, Laurentian University, EXO-200 COLLABORATION, NEXO COLLABORATION — The radon counting technique based on electrostatic precipitation of progenies in gas followed by alpha spectroscopy has been applied to support the material selection programs of low background, neutrino and dark matter experiments with emphasis on EXO. An array of 8 counters operated by Laurentian University at SNOLAB and the Waste Isolation Pilot Plant have reached the sensitivity of 10 atoms/day in the uranium, thorium and actinium chains. Hardware improvements are underway to further increase the capacity and sensitivity in support of nEXO.

¹Supported by NSERC Project Grants “Search for Double Beta Decay with EXO.”

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Date submitted: 30 Jun 2014

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