

Abstract Submitted
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Status of the neutron Electric Dipole Moment search at Los Alamos National Laboratory¹ AUSTIN REID, Trinity College, NEDM@LANL COLLABORATION — A permanent neutron EDM presents an experimentally accessible measurement of beyond Standard Model physics. Further improvements on the more than a decade old nEDM upper bound have been hindered by insufficient ultracold neutron (UCN) density and by magnetic field inhomogeneities. The improved UCN storage density generated by LANL's upgraded solid deuterium UCN source combined with a newly designed magnetically shielded room and magnetometry suite should yield a nEDM sensitivity of 3×10^{-27} e · cm. This talk will present the status of the experiment and its projected timeline.

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Austin Reid
Trinity College

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