

Abstract Submitted
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The ACME electron electric dipole moment experiment¹ BRENDON O'LEARY, CHEONG CHAN, DAVID DEMILLE, Yale University, JOHN DOYLE, GERRY GABRIELSE, PAUL HESS, NICK HUTZLER, Harvard University, EMIL KIRILOV, Yale University, ELIZABETH PETRIK, BEN SPAUN, Harvard University, ACME COLLABORATION — The ACME collaboration is searching for the electron's electric dipole moment (eEDM) using a buffer gas-cooled beam of ThO molecules in their metastable H $^3\Delta_1$ state. We discuss details of the design, assembly, and current status of this experiment. We also describe progress towards potential future improvements in the signal-to-noise in future generations of ACME.

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