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Overview of the Beam EDM Project and Latest Results

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The search for a neutron electric dipole moment (EDM) is of significant interest in understanding the observed baryon asymmetry in the universe. Historically, two methods have been employed to measure an EDM, storage of ultracold neutrons (UCN) and cold neutron beams, with the latter being abandoned in the 1980s due to a limiting relativistic systematic effect. The Beam EDM experiment developed at the University of Bern represents a novel concept to overcome this limitation with a cold neutron beam using the time-of-flight method. The ultimate goal of this project aims to reach a sensitivity competitive with future UCN experiments. This poster will present an overview of the Beam EDM project and latest results.

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