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129Xe EDM: Progress and Prospects

Wednesday, 16 September 2020 17:10 (25 minutes)

129Xe is a diamagnetic atom that provides a nuclear spin system to probe P-odd/T-odd physics that is complementary to that in other systems. We have been pursuing 129Xe EDM measurements with 3He comagnetometry, most recently using SQUIDS to detect free precession of both species and have set a new upper limit and have a roadmap for significant future improvements. I will discuss the role of 129Xe in the EDM landscape, describe our recent measurement and suggest improvements for future measurements.

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