

## 129Xe EDM: Progress and Prospects

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

<sup>129</sup>Xe 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 <sup>129</sup>Xe EDM measurements with <sup>3</sup>He 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 <sup>129</sup>Xe in the EDM landscape, describe our recent measurement and suggest improvements for future measurements.

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**Session Classification:** Dipole Moments Day 2