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## Electric Dipole Moments, Recent Results and Prospects

*Tuesday 8 April 2014 09:35 (20 minutes)*

Measurement of a non-zero permanent electric dipole moment (EDM) would be clear evidence of a new source of CP violation outside of the quark mixing CKM matrix, and would be a possible signature of Supersymmetry. I will give an overview of current EDM experiments, including searches for atomic EDMs, recent improvements on the electron EDM upper bound measured in polar molecules, and the status of efforts to improve the neutron EDM limit. I will also discuss the Fermilab muon  $g-2$  experiment and its prospects for measuring the muon EDM.

**Presenter:** Dr GRIFFITH, Clark

**Session Classification:** Plenary 3

**Track Classification:** Flavour Physics and Beyond