

The allure of Ultra-Sensitive Experiments: A Tale of Two Leptons

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A significant amount of what we know about the Standard Model began with the study of atoms, which was really the study of electrons in quantum mechanical systems. The discovery of the muon, the first second generation particle to be found, pointed us to the generation structure of the Standard Model. I will review how precision measurements of the magnetic and electric dipole moments of these two leptons have led to a deep understanding of the Standard Model contributions, and the search for New Physics that lies beyond.