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Parity-Violation with Electrons: The Standard Model and Beyond

Monday, 22 June 2026 15:00 (30 minutes)

Measurements of parity-violating observables in electron scattering, atomic transitions, and electron-positron annihilation have played a decisive role in confirming and testing the Standard Model electroweak sector and in probing the strong interaction in the non-perturbative regime. After reviewing this story, I discuss the experimental frontier for parity-violation with electrons and the corresponding theoretical challenges.

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