

## Equivalence Principle Violation from Dark Matter Coherent Scattering

*Monday, 20 April 2026 14:25 (15 minutes)*

We discuss how coherent scattering of dark matter with macroscopic targets can generate observable forces and lead to signals of equivalence principle violation. For dark matter masses around the eV scale, coherent enhancement in homogeneous or random materials opens new possibilities for torsion-balance experiments and related searches.

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