

Abstract Submitted
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Resonant-cavity tests of Lorentz invariance ALEXANDER PETROFF, Carleton College, MATTHEW MEWES, Carleton College — Highly suppressed violations of Lorentz invariance are candidate signals for new physics with Planck-scale origins. We examine a class of experiments based on the resonances of electromagnetic cavities that are sensitive to possible violations. In particular, we study potential increases in sensitivity that might be obtained by utilizing cavities with different geometries.

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