

Abstract Submitted
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Probing Lorentz Symmetry with Equivalence Principle Experiments JAY D. TASSON, V. ALAN KOSTELECKY, Indiana University — A potential signal for new physics at the Planck scale is provided by Lorentz-symmetry violation. At presently accessible energies, these violations are described by the Standard-Model Extension (SME). An outline of matter sector of the SME in the presence of gravity will be provided, and new sensitivities to Lorentz violation attainable in Equivalence Principle experiments will be presented.

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