

Abstract Submitted
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Gravitational Tests of Relativity JAY D. TASSON, V. ALAN KOST-ELECKY, Indiana University — Recent studies have revealed new ways to test relativity using gravitational experiments. Results have already been obtained based on lunar laser ranging, torsion pendula, and high-sensitivity gravimetry. Proposals for many more tests exist, some of which could perform the first searches for types of relativity violation that have not yet been sought. In this presentation an outline of the modern theoretical framework for testing relativity, the gravitationally coupled Standard-Model Extension, will be provided along with a summary of recent results and proposals.

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