

Abstract Submitted
for the PSF09 Meeting of
The American Physical Society

Tests of Relativity with Gravitational Experiments JAY TASSON,
ALAN KOSTELECKY, Indiana University — New ways to test relativity using
gravitational experiments have been revealed by recent studies. Experimental re-
sults have already been obtained based on lunar laser ranging, torsion pendula, and
high-sensitivity gravimetry. Many more tests have been proposed, some of which
would constitute the first searches for certain types of relativity violation. In this
presentation, an outline of the modern theoretical framework for testing relativity,
the gravitational Standard- Model Extension, will be provided, and recent results
and proposals will be summarized.

Jay Tasson
Indiana University

Date submitted: 16 Oct 2009

Electronic form version 1.4