

Abstract for an Invited Paper
for the APR09 Meeting of
The American Physical Society

Tests of Lorentz Invariance using Spinning Fermions and Laser Ranging to the Moon

ERIC ADELBERGER, University of Washington

Attempts to develop a quantum theory of gravity have focused attention on possible Planck-scale violations of Lorentz invariance. This talk will review recent experimental constraints on such violations obtained from laboratory experiments with polarized electrons or neutrons and from laser ranging to the moon.