

Abstract for an Invited Paper
for the HAW09 Meeting of
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Low-energy probes of physics beyond the Standard Model

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I will discuss theoretical aspects of symmetry tests with low-energy probes. I will focus mostly on (i) beta decays and gauge universality tests; (ii) lepton flavor violation in the charged lepton sector; (iii) searches for CP violating sources beyond the Standard Model and their cosmological implications. In all cases, I will emphasize the complementarity between collider searches and low-energy probes in understanding fundamental interactions at the weak scale and beyond.