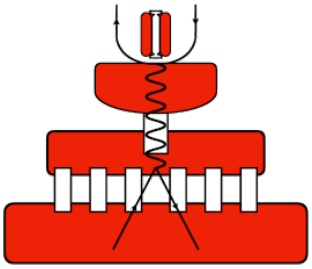

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Status and perspectives of Lepton Flavour Violation experiments with muons.

Thursday, 12 September 2019 14:55 (25 minutes)

Lepton flavour violation effects are predicted in several extensions of the Standard Model (SM), including supersymmetric versions of Grand Unification Theories, at a measurable level. Since the SM background, even including neutrino oscillations and mixing, is completely negligible the observation of such effects would be a strong evidence for New Physics beyond the SM, while a non observation with high precision experiments would put severe constraints on possible SM extensions. In this talk we review the present status and the future perspectives of the lepton flavour violation experiments involving muons and discuss the sensitivity improvements which could be obtained from new high intensity machines coupled with high resolution detectors.

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