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## Global analysis of Lepton Flavor Violating Operators

*Friday, 8 December 2023 12:00 (25 minutes)*

Processes involving charged lepton flavor violation (CLFV) are very powerful tools to search for new physics beyond the Standard Model and their observation could provide important insight onto the origin of neutrino masses. Probes of CLFV exist across a broad spectrum of energy scales, from low-energy experiments looking for CLFV decays of the muon, of the tau lepton and of a variety of mesons, to high-energy colliders. In this talk, I will give an overview of existing bounds on CLFV operators in the framework of the Standard Model Effective Field Theory, highlighting the complementarity between low- and high-energy probes. I will then discuss the directions in parameter space that are least constrained by existing experiments, and discuss future opportunities at the Electron-Ion Collider.

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