

Search for lepton flavor violation at the EIC

Thursday 20 May 2021 15:15 (15 minutes)

The Electron-Ion Collider (EIC) will collide electrons with protons at high energy with unprecedented luminosity. The EIC is being optimized to map out the structure of the proton and nuclei. Its capability also presents another opportunity to search for physics beyond the Standard Model. In this talk, I will discuss the potential sensitivity of the EIC to charged-lepton-flavor violating electron-tau transition within the framework of the Standard Model Effective Field Theory.

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Session Classification: Collider BSM