Contribution ID: **149** Type: **Parallel**

Radiative leptonic decays on the lattice

Tuesday 18 June 2019 15:20 (20 minutes)

Adding a hard photon to the final state of a leptonic pseudoscalar-meson decay lifts the helicity suppression and can provide sensitivity to a larger set of operators in the weak effective Hamiltonian. Furthermore, radiative leptonic B decays at high photon energy are well suited to constrain the first inverse moment of the B-meson light-cone distribution amplitude, an important parameter in the theory of nonleptonic B decays. We present our progress with lattice-QCD calculations of the hadronic matrix elements describing radiative leptonic decays of light and heavy mesons.

Authors: Prof. MEINEL, Stefan (University of Arizona / RIKEN BNL Research Center); KANE, Christopher (University of Arizona); LEHNER, Christoph (BNL); SONI, AMARJIT (BNL)

Presenter: Prof. MEINEL, Stefan (University of Arizona / RIKEN BNL Research Center)

Session Classification: Weak Decays and Matrix Elements

Track Classification: Weak Decays and Matrix Elements