Contribution ID: **37** Type: **not specified**

Inclusive semileptonic decays from Lattice QCD

Wednesday, September 25, 2024 4:30 PM (30 minutes)

We report on the progress in the nonperturbative calculation of the decay rate for inclusive semileptonic decays of charmed and bottomed mesons. We provide an overview on the formalism used to reconstruct the inclusive rate and address the ongoing analysis into understanding the systematic errors associated with the analysis, focusing on the error due to the approximation and finite-volume effects. We further discuss future prospects such as the extension of the formalism towards the determination of moments, such as q^2 moments, which can be used for a comparison to experimental data and other theory predictions, such as the OPE.

Author: KELLERMANN, Ryan (High Energy Accelerator Research Organization (KEK))

Presenter: KELLERMANN, Ryan (High Energy Accelerator Research Organization (KEK))

Session Classification: Heavy to heavy inclusive