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Theoretical status and prospects in inclusive semileptonic beauty and charm decays

Tuesday 18 June 2024 09:00 (20 minutes)

In this talk, I will discuss the current status and prospects in inclusive semileptonic beauty and charm decays from the theoretical side. I will introduce the open-source package Kolya, developed to predict inclusive beauty semileptonic rates within the SM and beyond. I will discuss the status of the V_{cb} determinations from semileptonic inclusive B decays using all available data. I will discuss briefly the prospects for B_s inclusive measurements at LHCb and discuss some progress on the determination on V_{ub} . Finally, I will discuss what happens once the HQE is applied to charm decays, for which it is not originally developed and the prospects for testing the HQE in the charm sector at BESIII.

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