XVIth Quark Confinement and the Hadron Spectrum



Contribution ID: 257 Type: Oral

Spectator effects in inclusive lifetimes of heavy hadrons

Tuesday 20 August 2024 16:20 (20 minutes)

A dominant source of uncertainty in theoretical determinations of ratios of inclusive lifetimes of heavy hadrons are 'Spectator Effects', wherein the light degrees of freedom participate in the decay process. The heavy-quark-expansion describes these effects as matrix elements of four-quark HQET operators in the heavy hadron states of interest. Using a recently developed position-space scheme to nonperturbatively renormalize these operators in lattice-HQET, we present updates on the spectator effect matrix elements.

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Session Classification: Heavy Quarks

Track Classification: C: Heavy Quarks