

Updating inclusive V_{ub} in the factorization framework (aka BLNP)

Thursday 26 September 2024 13:30 (30 minutes)

In the past two decades significant advances have been made on the perturbative ingredients of the leading-power factorization formula for $B \rightarrow X_u \ell \nu$, as well as local parameters in the heavy-quark expansion. An update for partial rates in the “shape-function region” is overdue. The main uncertainty still concerns the leading-power shape function, where we explore novel ideas and generate reliable error estimates. Along the way new lessons were learned that we would like to share and discuss.

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Session Classification: Heavy to light inclusive