Measurements of V_{cb} and V_{ub} at Belle and Belle II

Thursday 18 July 2024 17:15 (15 minutes)

The Belle and Belle II experiments have collected a 1.1 ab $^{-1}$ sample of $e^+e^- \to B\bar{B}$ collisions at the $\Upsilon(4S)$ resonance. These data, with low particle multiplicity and constrained initial state kinematics, are an ideal environment to study semileptonic and leptonic decays of the B meson. Combined with theoretical inputs, measurements of both inclusive and exclusive decays yield information about the Cabibbo-Kobayashi-Maskawa matrix elements V_{cb} and V_{ub} . We review our latest results, which include the first Belle II results with fully leptonic and inclusive semileptonic decays.

Alternate track

1. Top Quark and Electroweak Physics

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Yes

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