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Recent Belle II results on the CKM parameters $|V_{cb}|$ and $|V_{ub}|$

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Semileptonic B -meson decays allow for determining the magnitudes of the CKM matrix parameters $|V_{cb}|$ and $|V_{ub}|$, two fundamental parameters of the SM flavor sector. Belle II analyses use both exclusive decays such as $B \rightarrow D^* \ell \nu$ and $B \rightarrow \pi \ell \nu$, or inclusive $X_c \ell \nu$ or $X_u \ell \nu$ final states restricted in phase space. The low-background collision environment, along with the possibility of partially or fully reconstructing one of the two B mesons in the event, offer precisions on $|V_{cb}|$ and $|V_{ub}|$ approaching that of world-best results.

Collaboration / Activity

Belle II

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