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

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Semileptonic B decays allow to determine the magnitudes of the CKM matrix parameters $|V_{cb}|$ and $|V_{ub}|$, two fundamental parameters of the standard model flavor sector. At Belle II these measurements 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 high precision. Recent results on $|V_{cb}|$ and $|V_{ub}|$, along with a novel measurement of lepton- q^2 moments are presented, along with future perspectives.

In-person participation

No

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