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New results on semileptonic B meson decays from the Belle experiment

Tuesday 27 July 2021 09:30 (15 minutes)

Though the Belle experiment has stopped data taking more than a decade ago, new results on semileptonic B meson decays are still being obtained. This is in part due to new experimental tools elaborated for Belle II applied to the Belle data set, such as the FEI (Full Event Interpretation) hadronic and semileptonic tag which enables new measurements of $B \rightarrow D^* \ell \nu$, $B \rightarrow D^{**} \ell \nu$ and $B \rightarrow X \ell \nu$. Other analyses are motivated by the progress in theory such as the measurement of q^2 moments in $B \rightarrow X_c \ell \nu$, which allows for a determination of $|V_{cb}|$ up to the order $1/m_b^4$. This talk covers all new semileptonic B decay results obtained with the Belle data set.

Collaboration / Activity

Belle

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