ICHEP 2022 BOLOGNA
ICHEP 2022 XLI International Conference on High Energy Physics Bologna (Italy)
6 13 07 2022

Contribution ID: **926** Type: **Parallel Talk**

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

Friday, 8 July 2022 14:47 (17 minutes)

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 $B \to D^* \ell \nu$ and $B \to \pi \ell \nu$, 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

Primary author: KOGA, Taichiro

Presenter: KOGA, Taichiro

Session Classification: Quark and Lepton Flavour Physics

Track Classification: Quark and Lepton Flavour Physics