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Determination of V_{ub} at Belle II

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Semileptonic decays of B mesons involving low-mass charged leptons e or μ are expected to be free of non-Standard Model contributions and therefore play a critical role in determinations of $|V_{ub}|$ and $|V_{cb}|$. Of all the CKM matrix parameters, $|V_{ub}|$ is the least precise and in most need of additional studies in order to constrain the apex of the Unitarity Triangle even further. We focus on exclusive reconstruction of charmless semileptonic B meson decay $B \rightarrow \pi \ell \nu$, and present prospects and estimates for $|V_{ub}|$ at Belle II with the full planned dataset of 50 ab^{-1} of integrated luminosity.

Author: M. LUBEJ, Matic (Jozef Stefan Institute (JSI))

Orateur: M. LUBEJ, Matic (Jozef Stefan Institute (JSI))

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