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Semileptonic $b \rightarrow u$ decays and $|V_{ub}|$

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The Cabibbo–Kobayashi–Maskawa (CKM) matrix element $|V_{ub}|$ describes the coupling between u and b quarks in the weak interaction, and is one of the fundamental parameters of the Standard Model. $|V_{ub}|$ is the focus of a longstanding puzzle, as the world-average values derived from inclusive and exclusive B -meson decays show a tension of a few standard deviations.

Semileptonic decays can be used to extract CKM elements by combining a lattice QCD calculation of the form factors and the experimental branching fractions. This talk will focus on the recent lattice QCD results and the current status of V_{ub} .

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