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Theory overview of the tree-level b-decays

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I review theoretical progress in the study of semileptonic tree-level B decays and its interplay with recent experimental results. In particular, I focus on two anomalies: the ratios $R(D)$, $R(D^*)$:

$$R(D^{(*)}) = \frac{BR(B \rightarrow D^{(*)} \tau \bar{\nu}_\tau)}{BR(B \rightarrow D^{(*)} \ell \bar{\nu}_\ell)}$$

and the inclusive vs exclusive determination of $|V_{cb}|$.

I review several explanations for such anomalies and discuss further tests to clarify their origin.

Experimental Collaboration

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