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## Theory overview of the tree-level b-decays

*Thursday, July 6, 2017 2:45 PM (30 minutes)*

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

**Primary author:** DE FAZIO, Fulvia (INFN Bari)

**Presenters:** DE FAZIO, Fulvia (INFN Bari); DE FAZIO, Fulvia (Universita e INFN, Bari (IT))

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