

$\bar{B} \rightarrow D^*(D\pi, D\gamma)\ell^-\bar{\nu}_\ell$ modes and the search for New Physics

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The fully differential $\bar{B} \rightarrow D^*(D\pi, D\gamma)\ell^-\bar{\nu}_\ell$ angular distributions are considered to scrutinize the effects of the $B \rightarrow D^{(*)}$ form factor parametrizations.

The use of the angular coefficients to pin down deviations from SM is discussed, in particular concerning lepton flavour universality violation phenomena.

A possible connection between the tension in the inclusive/exclusive determinations of $|V_{cb}|$ and the $R(D^{(*)})$ anomalies is discussed.

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