

CP violation and polarisation amplitudes in $B \rightarrow VV$ decays at LHCb

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Decays of b-mesons to charmless multi-body final states are CKM suppressed in the Standard Model, which brings the tree amplitudes to levels comparable with corresponding loop amplitudes. New particles not foreseen in the SM that appear in the loops may alter not only the CP asymmetries of these decays, but also the polarisation fractions and triple-product asymmetries. The latest measurements of these quantities performed by the LHCb experiments are presented, with particular emphasis on $B \rightarrow VV$ decays, where V indicates a light vector meson.

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