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Studies of multibody charmless B decays at LHCb

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Charmless multibody B decays proceeding through the quark transitions b -> q qbar s(d) are relevant laboratories to study both direct and mixing-induced CP violation effects and to search for deviations from Standard Model expectations. The 1.0 fb−1 of data recorded by the LHCb experiment in 2011 have been analyzed to reconstruct B+, B0 and B0s decays in various multibody final states. We report direct CP-violation studies in three-body charged B decays, reconstruction of neutral B mesons in three-body decays with a K0S meson in the final state and amplitude analyses of B decays into two intermediate vector particles such as B0 -> φ K*0 or B0s -> φ φ.

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