

Review of charmless three-body decays of b-hadrons

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To test for physics beyond the Standard Model it is vitally important to make precise measurements of direct and mixing-induced CP-violating observables in as many different quark-level transitions as possible. Charmless three-body B decays provide an excellent laboratory in which to make such measurements in loop-dominated decays. Extra sensitivity can also be gained from performing amplitude analyses, which allow measurements of the relative phases of the intermediate processes as well as their magnitudes.

We present a review of recent results from studies of charmless 3-body decays of b-hadrons, including direct CP violation measurements in charged B decays and the first measurements of Λ_b decays to such final states.

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