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 loopdominated 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 Lambda_b decays to such final states.

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