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## Amplitude relations in two body b-baryon decays using SU(3) symmetry

The decays of b-baryons provide an interesting opportunity to test SU(3) flavor symmetries in the Standard Model. We study possible charmless decays of such anti-triplet b-baryons into an octet or decuplet baryon and a pseudoscalar meson using SU(3) flavor symmetry. The analysis holds for arbitrarily broken SU(3). By making some physical assumptions about the underlying transitions, we derive amplitude relations between several decay modes that are within the reach of future experiments.

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