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Semileptonic decays of heavy baryons to negative-parity baryons

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The hadronic physics of the simplest semileptonic decays of Λ_b 's and Λ_c 's, in which both the initial and final baryons have $J^P = \frac{1}{2}^+$, is by now quite well understood. We have begun exploring more complicated processes with $J^P = \frac{1}{2}^-$ and $J^P = \frac{3}{2}^-$ baryons in the final state, which have a rich phenomenology but are more challenging for theory and experiment. We present our predictions for these decays and discuss how they compare with quark models, heavy-quark effective theory, zero-recoil sum rules, and experimental measurements.

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