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B decays to charm bayrons

Rich spectrum is expected for charmed baryons in the quark model, yet many states especially those containing strange quarks has not been experimentally established. The mass of B meson is sufficient to decay to two charm bayrons, especially Ξ_c and Λ_c. B-factories have observed a serious of decays from a B meson to two charmed baryons. In recent years, LHCb implements several studies of B decays with two charmed baryon daughters, such as $B^{0/+} \to \Lambda_c \Lambda_c K^{0/+}_{(S)}$. Intermadiate states including excited Ξ_c are also observed or show evidence. For such decays above, the branching fractions are measured via a relative branching fraction method. For future, more double charmed baryons decays are expected to be studied in LHCb.

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