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Weak decays of doubly heavy baryons

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The first observed double-heavy baryon, Ξ_{cc}^{++} , was discovered by its weak decays. The discovery channel, $\Xi_{cc}^{++} \rightarrow \Lambda_c^+ K^- \pi^+ \pi^+$, and the confirmed mode, $\Xi_{cc}^{++} \rightarrow \Xi_c^+ \pi^+$, were both predicted in theory by the factorization approach with the rescattering mechanism for the final-state-interaction effect. We will report the recent progress on the studies of weak decays of doubly heavy baryons.

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