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【317】 First steps towards the experimental observation of purely baryonic decay processes using the LHCb detector.

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Purely baryonic decays of baryons such as $\Lambda_b \rightarrow p\bar{p}n$ and $\Lambda_b \rightarrow \Lambda p\bar{p}$, are predicted by the Standard Model but they have never been observed. Measurements of purely baryonic decays represent a valuable test of assumptions and factorization approach used in theoretical predictions. This contribution describes the first steps and the current status of the study of purely baryonic decay processes using the LHCb detector aiming at the experimental observation of these decays, measuring their branching fractions and, if signal yield allows, carry out the CP violation measurements for those decay modes.

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