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Search for new physics in heavy baryon decays

Semi-leptonic b-baryon decays provide a unique means to investigate Lepton Flavour Universality (LFU) at the LHCb experiment. Sensitivity to New Physics (NP) contributions could show up in the angular observables of the decay products. In this work, the decay amplitude of the process $\Lambda_b \rightarrow \Lambda_c l \nu$ as a function of the squared di-lepton invariant mass and lepton helicity angle is studied. The angular analysis thus is performed to assess the feasibility of NP searches within this decay channel.

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