



Contribution ID: 610

Type: **Parallel Talk**

CP violation in b baryons at LHCb

Friday, 7 July 2017 16:45 (15 minutes)

The violation of CP symmetry is well established nowadays in the K and B mesons sectors. However CPV has not been observed in the baryonic sector. Charmless b-baryon decays represent a promising opportunity in this respect since their amplitudes receive contributions from tree level diagrams where the CKM element V_{ub} appears. In addition, these decays are sensitive to possible physics beyond the SM, since they receive relevant contributions also from penguin topologies. We present the most recent measurements of charmless b-baryon decays performed by LHCb, including branching ratios and T-odd correlations.

Experimental Collaboration

LHCb

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