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CP violation in b-hadrons at LHCb

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Latest LHCb measurements of CP violation in the decays of b-hadrons are presented based on pp collision data collected in Run 1, corresponding to an integrated luminosity of 1 fb^{-1} at centre-of-mass energy 7 TeV and 2 fb^{-1} at 8 TeV.

New decays, $\Lambda_b \rightarrow \Lambda \pi^- K^+$ and $\Lambda_b \rightarrow \Lambda K^+ K^-$, are identified and the associated CP asymmetries are measured. The $\Lambda_b \rightarrow \Lambda \phi$ decay is observed for the first time and novel T -odd triple product asymmetries are measured.

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Classification de Session: Heavy Flavours

Classification de thématique: Experiment