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Time-dependent CP violation measurements in B decays at LHCb

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Measuring the mixing phases of the B^0 and B_s mesons is very important to validate the CP violation paradigm of the Standard Model and to search for new physics beyond it. Golden modes to measure these quantities are those governed by tree-level $b \rightarrow c\bar{c}q$ transitions, that allow precise and theoretically clean determinations to be performed. Besides, measuring the mixing phases with modes receiving major contributions from penguin diagrams open the possibility to reveal new physics appearing in the loops. In this presentation we show the most recent time-dependent measurements for B^0 and B_s mixing phases at LHCb.

Collaboration / Activity

LHCb

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