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Model-independent searches for direct CP violation in charm decays

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Currently, it is not clear whether the observed level of CP violation in the charm system can be accommodated within the SM, and further measurements are needed. Multi-body charm decays are powerful tools to search for CP violation through interference of intermediate resonances which may lead to local asymmetries in the phase space. LHCb is successfully exploring model-independent approaches to probe local CP violation in hadronic multi-body decays. This talk presents the most recent results of LHCb on this topic.

Consent

I consent to recording/broadcasting my presentation.

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