

Measurement of ϕ_s at LHCb

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The study of CP violation in B_s oscillations is one of the key goals of the LHCb experiment. Effects are predicted to be very small in the Standard Model but can be significantly enhanced in many models of new physics. We present the world's best measurement of the CP-violating phase ϕ_s using $B_0^s \rightarrow J/\psi\phi$ and $B_0^s \rightarrow J/\psi\pi\pi$ decays.

APS member ID

ST693216

Primary author: Prof. LEROY, Olivier (CPPM)

Presenter: Prof. LEROY, Olivier (CPPM)

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