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CP violation in the B system

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 $B^0_s \rightarrow J/\psi \pi^0$ and $B^0_s \rightarrow J/\psi \pi^+ \pi^-$ decays, and of the time integrated asymmetry in semileptonic B_s decays. Measurements of, and prospects for, comparable measurements in the B_d sector are also discussed.

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