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Measurement of CP violation in the Bs system

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The study of CP violation in Bs 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 $B_0^s \rightarrow J/\psi\varphi$ and $B_0^s \rightarrow J/\psi\pi\pi$ decays, $B_0^s \rightarrow \varphi\varphi$ and $B \rightarrow hh$ ($h=K,\pi$).

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