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Determination of the phase phi_s at LHCb

The determination of the mixing-induced CP-violating phase phi_s in the Bs-Bsbar system is one of the key goals of the LHCb experiment. It has been measured at LHCb exploiting the Run I data set and using several decay channels: Bs0->J/psi K+K- and Bs0->J/psi pi+pi-, both with J/psi->mu+mu-, Bs0->Psi(2S)(->mu+mu-)Phi. The first observation of the Bs0->Eta_c Phi and Bs0->Eta_c pi+pi-decay modes which can be used to measure phi_s with Run2 data is presented.

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