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Measurements of the CP violating phase phi_s at LHCb

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The measurement 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 exploiting the Run I data set, using several decay channels. The poster shows the most recent results obtained analyzing Bs0->J/psi K+K- candidates in the K+K-mass region above the phi(1020) resonance. The poster also shows previous measurements using the same final state with the K+K- mass at the phi(1020), as well as using the Bs0->J/psi pi+pi- decat. Finally, a combination of the various results is presented.

Summary

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