

Overview of CPV parameter ϕ_s determination

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The one of main goals of the LHCb experiment is the measurement of the mixing-induced CP-violating phase ϕ_s in the B_s - B_s^* system. It has been measured exploiting the Run 1 data set, using several decay channels. The most recent results obtained analyzing $B_s^0 \rightarrow J/\psi K^+ K^-$ candidates in the $K^+ K^-$ mass region above the $\phi(1020)$ resonance are presented. However, the precision of ϕ_s is still limited by the statistics. Also the measurements using the same final state with the $K^+ K^-$ mass at the $\phi(1020)$ and $B_s^0 \rightarrow J/\psi \pi^+ \pi^-$, as well as using the $B_s^0 \rightarrow \psi(2S) \phi$ decay will be discussed.

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