Measurements of charmless three-body decays

Saturday 20 July 2024 15:45 (15 minutes)

We present an update of the analysis of B^0_d and B^0_s mesons to charmless three-body final states that include a K^0_S meson. The primary goal of the analysis is to search for the as-yet unobserved decay mode $B^0_s \to K^0_S K^+ K^-$ In addition, the branching-fraction measurements for the set of decay modes $B^0_{(d,s)} \to K^0_S h^+ h^{'-}$ (where h and $h^{'}$ are each a pion or kaon), measured relative to $B^d_0 \to K^0_S \pi^+ \pi^-$, are updated. The analysis uses the data recorded by the LHCb experiment during Runs 1 and 2 of the LHC, corresponding to an integrated luminosity of 9 fb-1.

Alternate track

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Yes

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