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Coupling Constant $g_{(\Lambda_b B_s \Lambda)}$ using the Baryonic $B^{-0} s \rightarrow p \Lambda K^{-}$ Decay

Tuesday, 9 July 2024 16:00 (30 minutes)

We study the three-body baryonic B decay $B^{-0} s \rightarrow p \Lambda K^{-}$ within the framework of the pole model via the baryonic Λ_b pole. In our calculation, we require the strong coupling constant $g_{\Lambda_b B_s \Lambda}$ and investigate if $g_{\Lambda_b B_s \Lambda} = 10.49 \pm 1.57$ is adopted, the branching ratio agrees with the experimental result, reported by the LHCb collaboration.

session

D. Hadron Decays

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