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Type: YSF (Young Scientists Forum)

Studies of the decay $B_s \rightarrow D_s K$

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The decay mode $B_s^0 \rightarrow D_s^\pm K^\mp$ allows for one of the theoretically cleanest time dependent measurements of the CKM angle γ . This contribution reports the observation of this decay mode at LHCb and the measurement of its world best measurement branching fraction relative to the Cabibbo-favoured mode $B_s^0 \rightarrow D_s^- \pi^+$ based on data sample of 0.37 fb^{-1} proton-proton collisions at $\sqrt{s} = 7\text{-TeV}$ collected in 2011.

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