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Determination of the B_s lifetime using hadronic decays

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We present a measurement of the B_s^0 meson lifetime using fully and partially reconstructed hadronic decays $B_s^0 \rightarrow D_s^- \pi^+ (X)$ followed by $D_s^- \rightarrow \phi \pi^-$. The data sample was recorded with the CDF II detector at the Fermilab Tevatron and corresponds to an integrated luminosity of 1.3 fb^{-1} from $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV.

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