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study of $B^0 \to \phi K_s^0$ and $\Lambda_b \to \phi\Lambda$ decays at CDF MATTHEW RUDOLPH, Johns Hopkins, CDF COLLABORATION — Using over 330 pb^{-1} of Run II data collected by the CDF detector, we evaluate the prospects for reconstructing gluonic penguin decays $B^0 \to \phi K_s^0$ and $\Lambda_b \to \phi\Lambda$ in $p\bar{p}$ collisions at $\sqrt{s} = 1.96$ TeV. The $K_s^0 \to \pi^+\pi^-$ and $\Lambda \to p^+\pi^-$ decays are reconstructed using a decidated algorithm, which is studied using $D^0 \to \phi K_s^0$ decays.

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