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## New suppressed decays of $B_0$ s mesons

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We present new measurements of suppressed decays of the  $B_0$ s meson to  $J/\psi$  final states at CDF. Using a data sample corresponding to an integrated luminosity of  $5 \text{ fb}^{-1}$  of proton-antiproton collisions at  $\sqrt{s}=1.96 \text{ TeV}$ , we utilize a low transverse-momentum dimuon trigger to acquire a large sample of  $J/\psi \rightarrow \mu^+\mu^-$  decays. We form fully reconstructed  $B_0$ s candidates using information from the central tracking system and present results on the following decay modes:  $B_0 \rightarrow J/\psi K^*(892)$ ,  $B_0 \rightarrow J/\psi f_0(980)$  and  $B_0 \rightarrow J/\psi K_0$ . All of these modes have the possibility of providing further information on lifetime difference and CP asymmetries in  $B_0$ s decays.

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