

Properties of exotic charmonium-like mesons at CDF

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CDF reports the recent evidence for a new narrow resonance, $Y(4140)$, decaying to $J/\psi \phi$ final state, and reconstructed using 2.7 fb^{-1} of exclusive $B^{+-} \rightarrow J/\psi \phi K$ decays. Using the world's largest sample of $X(3872) \rightarrow J/\psi \pi \pi$ decays, a study on the $X(3872)$ mass and width aimed at testing the internal composition of this state is also described. This lead to the most precise $X(3872)$ mass measurement to date and disfavors the hypothesis of the $X(3872)$ being composed of two resonances closely spaced in mass.

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