A search for prompt $\chi_c$ and $X(3872)$ production in $e^+e^-$ annihilations

WOOCHUN PARK, University of South Carolina, BABAR COLLABORATION — A search for prompt $\chi_c$ and $X(3872)$ production in $e^+e^-$ annihilations is performed using 386 fb$^{-1}$ of data collected around a center-of-mass energy $\sqrt{s} \approx 10.6$ GeV with the BaBar detector. The $\chi_c$ and $X(3872)$ candidates are reconstructed using their radiative decay $\gamma J/\psi$ with $J/\psi \rightarrow e^+e^-$ or $\mu^+\mu^-$. We present preliminary results.

Soeren Prell
Iowa State University

Date submitted: 10 Jan 2007

Electronic form version 1.4