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Search for $X \rightarrow J/\psi\omega$ in the B decays, $B \rightarrow XK$ ERIC ECKHART,
Colorado State University, BABAR COLLABORATION — There is still much un-
certainty as to the nature of the X(3872) observed by Belle in 2003. It may possibly
be a charmonium state, a bound state of charmed mesons or a hybrid state of glu-
ons and charm quarks. The decay $X \rightarrow J/\phi\omega$ might be a favored decay if the
X(3872) is actually a bound state of two charmed mesons. We report a search
for $X(3872) \rightarrow J/\psi\omega$ in $B \rightarrow XK$ decays using 205 fb^{-1} collected on the $\Upsilon(4S)$
resonance by the BaBar detector at the Pep-II asymmetric e+e- storage ring.

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