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## Recent BaBar studies of conventional and exotic quarkonium states

*Thursday 6 February 2014 11:00 (30 minutes)*

The B factories provide a unique playground for the study of the properties of conventional and exotic quarkonium states,

We report on a variety of recent results obtained using the full data set collected with the BaBar detector at the PEP-II  $e^+e^-$  collider.

In particular, we present measurements of the prompt production of  $J/\psi$  or  $\psi(2S)$  in association with a second charmonium state at a center-of-mass energy of 10.58 GeV, searches for exotic neutral and charged charmonium-like states, studies of charmonium production in two-photon fusion and initial state radiation processes,

as well as studies of radiative transitions between bottomonium states.

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