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Quarkonium (-like) states at BABAR

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The B factories provide a unique playground for studying the properties of conventional and exotic quarkonium states which are produced through various mechanism.

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/ψ 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.

Summary

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