

Recent BABAR Studies of Bottomonium States

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We present a study of the radiative transitions from decays of the Y(2S) and Y(3S) resonances using photons that have converted into an e+e- pair, obtaining precise measurements of the branching fractions for chi_b1,2(1, 2P) -> gamma Y(1S) and chi_b1,2(2P) ->gamma Y(2S) transitions and search for radiative decay to the eta_b(1S) and eta_b(2S) states. We present a search for the spin-singlet partner of the chibJ(1P) triplet, the hb(1P) state of bottomonium in the transitions Y(3S)->pi0 hb and Y(3S)->pi+pi-hb using a data sample of 122 million Y(3S) events.

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