

98. The Bottomonium System

The level scheme of the $b\overline{b}$ states showing experimentally established states with solid lines. Singlet states are called η_b and h_b , triplet states Υ and χ_{bJ} . In parentheses it is sufficient to give the radial quantum number and the orbital angular momentum to specify the states with all their quantum numbers. *E.g.*, $h_b(2P)$ means 2^1P_1 with n = 2, L = 1, S = 0, J = 1, PC = +-. The figure shows observed hadronic transitions. The single photon transitions $\Upsilon(nS) \to \gamma \eta_b(mS)$, $\Upsilon(nS) \to \gamma \chi_{bJ}(mP)$, and $\chi_{bJ}(nP) \to \gamma \Upsilon(mS)$ are omitted for clarity.

C. Patrignani *et al.* (Particle Data Group), Chin. Phys. C, **40**, 100001 (2016) and 2017 update December 1, 2017 09:37