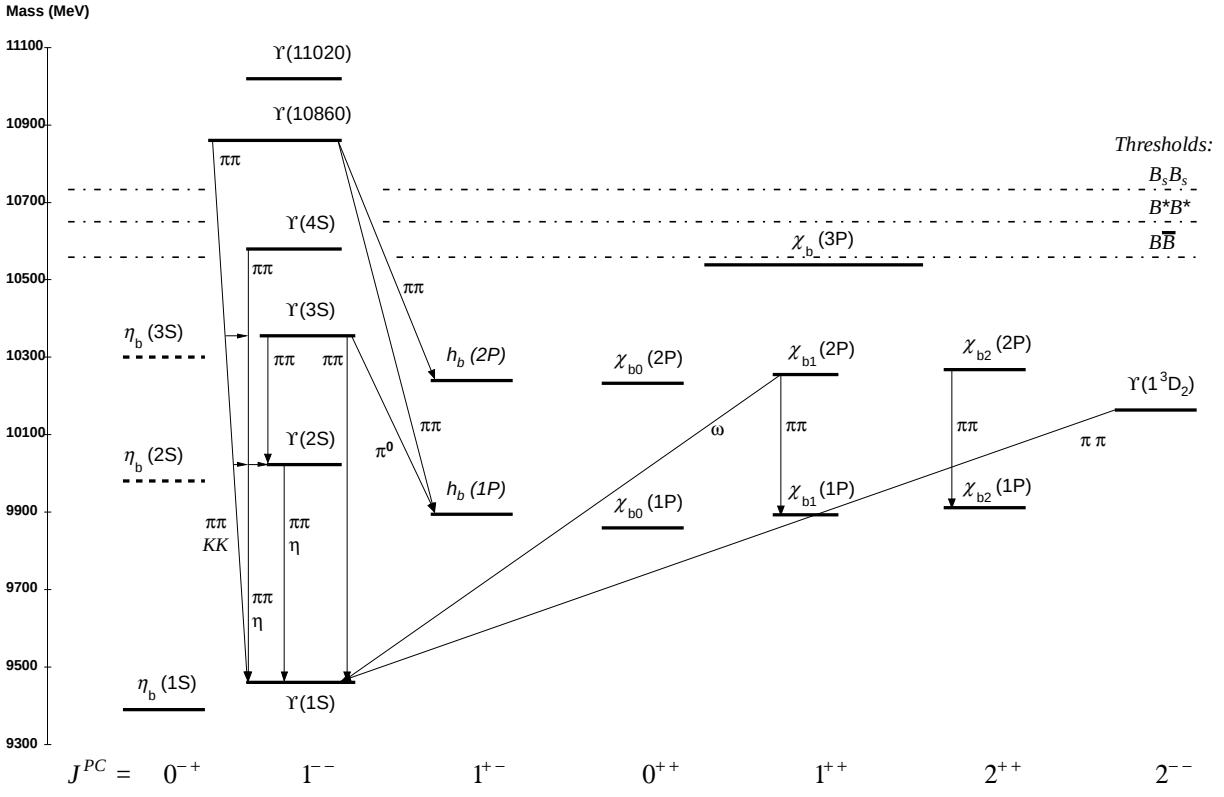
THE BOTTOMONIUM SYSTEM



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.