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Spin effects in Bottomonium at Belle

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Spin effects have a dominant role in the understanding of the dynamic of the Bottomonium system, both in the transitions and in the correlation among light hadrons being produced in their annihilation. Naively we expect a suppression of the transitions with spin flipping terms, but recent results on η transitions from $\Upsilon(4S)$ and $\Upsilon(5S)$ challenge this approach. The most recent results from Belle on this field will help to clarify the role of the spin in the modeling of the single- and two-meson transitions. Besides this the Belle collaboration is performing an extensive series of studies on baryon production in bottomonium decays, meant to address the two-baryon correlation in $\Upsilon(1S)$ annihilation and the precise measurement of hyperon inclusive production rates in e^+e^- collision. The search for the long sought H dibaryon is part of this effort.

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