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Bottomonium spectroscopy at Belle

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The description of single meson transitions among quarkonium states represent both a challenging topic for current non-relativistic QCD models and a powerful tool for the study of the dynamic in heavy quarks systems. In particular, theoretical debates arose around the role of mesonic molecules and coupled channel effects in the description of the single meson transitions from $Y(4S)$ and $Y(5S)$.

Using the world largest samples of $Y(4S)$ and $Y(5S)$ collected by the Belle experiment at the KEKB e^+e^- collider, we present the most recent experimental discoveries on single and double meson transition from the $Y(4S)$ and $Y(5S)$, including the first observation of the non spin-flipping $Y(4S) \rightarrow \eta h_b(1P)$ decay and a new measurement of the $\eta_b(1S)$ mass.

Author: TAMPONI, Umberto (Universita e INFN, Torino (IT))

Presenter: TAMPONI, Umberto (Universita e INFN, Torino (IT))

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