

Heavy-quark spin-symmetry partners of the bottomonium molecular states at Belle-II

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Assuming a molecular nature for the $Z_b(10610)$ and $Z_b(10650)$ exotic states, the properties of these states and their pole positions are extracted from the effective-field theory based analysis of the experimental line shapes in the decay channels $\Upsilon(10860) \rightarrow \pi\alpha$ (with α being $B\bar{B}^*$, $B^*\bar{B}^*$ and $h_b(mP)\pi$ ($m=1,2$)). The consequences for the heavy-quark spin-symmetry partners of these states are predicted parameter free.

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