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Bottom strange molecules with isospin 0

Using the local hidden gauge approach, we study the possibility of the existence of bottomed strange molecular states with isospin 0. We find three bound states with spin-parity 0^+ , 1^+ and 2^+ generated by the KB and Ω B interaction, among which the state with spin 2 can be identified as $Bs_2(5840)$. In addition, we also study the KB and Ω B interaction and find a bound state which can be associated to $Bs_1(5830)$. Besides, the KB and η Bs^* and KB and η Bs systems are studied, and two bound states are predicted. We expect that further experiments can confirm our predictions.

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