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A Study of Singly Bottom Compact Tetraquarks via Diquark-Antidiquark Approach

Motivated by recent advancements in tetraquark studies, we analyze the mass spectra and decay properties of singly bottom tetraquarks using the diquark-antidiquark formalism. By examining various internal quark configurations and color structures, we calculate the mass spectra within a non-relativistic framework. Additionally, several resonances are proposed as potential candidates for these tetraquarks. To further explore their rearrangement decays, we investigate the mass spectra and decay channels of related mesons. This study aims to enhance the understanding of singly heavy tetraquarks in the heavy-light sector.

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