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Fully Heavy Tetraquarks and Pentaquarks in the Flux Tube Model

Inspired by the recent discovery of the fully charm tetraquark state $X(6900)$, this study examines the properties of fully heavy tetraquark and pentaquark states. Using the flux tube model with finite quark masses, we analyze the Regge trajectories of these states, which are found to be highly non-linear. Additionally, the estimated masses of these multi-quark hadrons are compared with existing theoretical studies, showing strong agreement and providing further insights into heavy multi-quark systems.

Field of contribution

Phenomenology

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