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## On the study of dibaryon resonance $d^*(2380)$

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In this presentation, we briefly review the study of newly observed dibaryon resonance  $d(2380)$  ( $IJ^P=03^+$ ), and in particular, the recent studies of this resonance based on a chiral constituent quark model. The model calculations for its mass and wave function exhibit that it may be assigned as a compact hexaquark system with a dominant hidden-color component. The good explanations for the strong double pionic as well as single pionic decays of this dibaryon resonance support this inner structural interpretation. Further investigations for distinguishing this structure, such as observables like its electromagnetic form factors, its production from Upsilon( $nS$ ) decays in the  $e^+e^-$  annihilation as well as photo-absorption on the deuteron target contributed by  $d(2380)$  are also discussed.

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