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Dibaryon candidate with strangeness and effect from hidden-color channel

Thursday, 26 September 2024 11:00 (30 minutes)

In the work of prediction [Phys. Rev. C60, 045203], it was found that the hidden color (CC) channel plays an important role in forming nonstrange d* bound state and which is consistent with the COSY experiment. In the above work, the proposed chiral quark model were utilized in dynamically solving the resonating group method (RGM) equations for scattering processes and bound states. In this talk, we make an extension and perform a systematical exploration on the possible and interesting dibaryon candidates with different strangeness, examining the effect from CC channel in forming each dibaryon candidate [Symmetry 15 (2023) 446].

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