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Strong decay of double charm tetra quark T_{cc}

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We report our ongoing study of the pole structure of doubly charmed tetraquark T_{cc} . In this work we considered diquark-antidiquark, molecular and scattering operators in our analysis. Relativistic Heavy Quark action and clover improved Wilson action have been employed for charm and light quarks respectively. We varied the light quark mass to determine the region where three body effects becomes important. We present our preliminary results obtained at eight κ values on MILC $N_f = 2 + 1$ asqtad lattices with $a \sim 0.15$ and 0.09 fm.

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