

## **Doubly-charm tetraquark, its quark mass dependence and left-hand cut**

*Wednesday, 17 January 2024 10:50 (50 minutes)*

I will review lattice QCD results on the doubly charm tetraquark and discuss the observed dependence on the masses of light and charm quarks. The  $DD^*$  scattering amplitude at larger-than physical pion masses has a so-called left-hand cut that opens slightly below threshold due to pion exchange. I plan to discuss also how to incorporate the effects of this cut on the analysis of the scattering amplitude using effective field theory approach.

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