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Lattice QCD results for doubly heavy tetraquarks

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Several exotic hadrons have been discovered experimentally in recent years, some of which appear to be four-quark objects called tetraquarks. Our theoretical study uses lattice QCD to investigate the possibility of a tetraquark containing two light quarks (up, down or strange) and two bottom anti-quarks. Our results indicate a significant binding in two cases, with each tetraquark state well below the corresponding two-meson threshold.

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