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The static potential in 2+1+1-flavor QCD

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We report on the status of the analysis of the static potential in 2+1+1-flavor QCD. The static potential is obtained by measuring Wilson loops using the HISQ action, yielding the scales r_1/a , r_2/a , and the string tension σ . We put our emphasis on the possible effects due to the dynamic charm quark by comparing the lattice results to continuum results of the static potential with and without a massive flavor at two loops.

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