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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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