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Scale r_0 and the static potential from the CLS lattices

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We report on the measurement of the static potential and the scale r_0 from HYP-smearred Wilson loops in two flavour QCD. We analyse the quark mass dependence of the potential and r_0 at two lattice spacings. The high statistics at one of the parameter combinations allows for an estimate of the influence of slow Monte Carlo modes on the the statistical errors. We also compare the QCD static potential around distance r_0 with the static potential obtained from effective bosonic string theory.

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talk

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