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Flux Tubes in QCD with (2+1) HISQ Fermions

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We investigate the transverse profile of the chromoelectric field generated by a quark-antiquark pair in the vacuum of (2+1) flavor QCD. Monte Carlo simulations are performed adopting the HISQ/tree action discretization, as implemented in the publicly available MILC code, suitably modified to measure the chromoelectric field.

We work on the line of constant physics, with physical strange quark mass m_s and light to strange mass ratio $m_l/m_s = 1/20$.

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