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Quark confinement from an infrared safe approach

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We study the nonabelian dipole problem in the context of a simple semiclassical approach which incorporates some essential features of the infrared sector of Yang-Mills theories in the Landau gauge, in particular, the fact that the running coupling remains of moderate size at infrared scales and gluons acquire a mass while ghosts remain massless. We obtain a simple flux-tube solution in a controlled approximation scheme, that we compare to the results of lattice simulations.

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