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## Quark confinement in the heavy mass limit

*Friday, May 11, 2012 11:30 AM (30 minutes)*

In this talk we consider the heavy quark limit of nonperturbative Coulomb gauge QCD. In this framework, we demonstrate, under truncation, a direct connection between the Yang-Mills sector of the theory (the temporal component of the gluon propagator) and the quark confining potential. We further show that only color singlet quark-antiquark (meson) and three-quark (baryon) bound states are physically allowed, and discuss the implications for phenomenological studies of hadrons.

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