Quark Confinement and the Hadron Spectrum XI



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Dyons and confinement at non-zero T

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We consider a model for the vacuum of pure glue theory based on dyons. Temperatures of confinementdeconfinement, string tensions and other physical quantities for different gauge groups and representations are calculated. The relation with supersymmetric confining theories is discussed.

Considered mechanism of confinement/deconfinement implies specific behavior of the effective potential for Polyakov's loop in the Yang-Mills theory. Lattice measurements and theoretical description of this effective potential are presented.

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