

XXXV International Workshop on High Energy Physics "From Quarks to Galaxies: Elucidating Dark Sides"

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Theory of the deconfinement process in QCD

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In this talk we will discuss the temperature dependence of color-magnetic confinement and color-electric confinement in gluodynamics and QCD. In the first case, it will be shown that the spatial string tension in gluodynamics, which is responsible for the color-magnetic confinement, can be calculated from two-gluon gluelump's Green function, both for high and low temperatures. . In the case of color-electric confinement, the possibility of obtaining the behavior of string tension, quark condensate and other parameters will be discussed. This picture will be based on the field correlator method, which takes into account the contribution of the gluon condensate to the free energy of hadrons.

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