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$SU(2N_F)$ symmetry of QCD at high temperature and its implications

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Given a gap in the Dirac spectrum at $T > T_c$ we show that the high-temperature QCD has a $SU(2N_F)$ symmetry. This symmetry prohibits the on-shell propagation of quarks and the only possible elementary objects in Minkowski space-time are confined $SU(2N_F)$ symmetric “hadrons”. We discuss what should be measured on the lattice in order to clarify a structure of these objects in order to understand what kind of matter we have in QCD at high temperature. An important question is also how we could experimentally distinguish it from the “quark-gluon plasma” picture.

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