

EQUATION OF STATE FOR THE QUARK GLUON  
PLASMA WITH THE NEGATIVE BAG CONSTANT

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S u m m a r y

We propose a new analytical form of the quark-gluon plasma equation of state (EoS). This new EoS satisfies all qualitative features observed in the lattice QCD calculations and gives a good quantitative description of the lattice results in the SU(3) gluodynamics. The energy density for the suggested EoS looks similar to that in the bag model, but requires a negative value of the bag constant.