Ref.TH.2605-CERN

THERMODYNAMICS OF NUCLEAR MATTER FROM THE STATISTICAL BOOTSTRAP MODEL

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ABSTRACT

We study the properties of nuclear matter within the framework of a modified and generalized statistical bootstrap model in which the volume of a fireball grows with its mass. We find that the such described nuclear matter can exist in two phases. In particular we consider in a numerical example the high temperature $(T \lesssim T_0 \approx 150 \text{ MeV})$ regime of the gaseous phase with a density of less than ~ 0.75 of normal nuclear density.

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