



Contribution ID: 180

Type: Talk

Thermodynamics of strongly interacting plasma with high accuracy

Friday, July 29, 2016 4:30 PM (20 minutes)

The thermodynamic properties of the $SU(3)$ Yang-Mills theory are investigated from the confining phase up to $250 T_c$. Results for the temperature dependence of the entropy density, energy density and pressure are presented with an accuracy of about 0.5%. The framework of shifted boundary conditions is considered where the entropy density is related to the expectation value of the off-diagonal components of the energy-momentum tensor. The pressure and the energy density are then obtained by numerical integration. A comparison with data collected by other groups is discussed.

Author: Dr PEPE, Michele (INFN - Sez. Milano Bicocca - Italy)

Co-author: Prof. GIUSTI, Leonardo (University of Milano Bicocca - Italy)

Presenter: Dr PEPE, Michele (INFN - Sez. Milano Bicocca - Italy)

Session Classification: Nonzero Temperature and Density

Track Classification: Nonzero Temperature and Density