

Contribution ID : 165

Macroscopic QCD and QGP

Content :

The macroscopic QCD equations are proposed. They take into account the collective response of the quark-gluon medium to the parton currents traversing it. These currents induce the emission of Cherenkov gluons, the wake effect and the transition radiation. Comparison with experiment reveals quite large value of the chromopermittivity of the medium. The dispersion equations show that the proper modes of the medium develop instability

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Session classification : --not yet classified--

Track classification : --not yet classified--

Type : --not specified--