



Contribution ID: 13

Type: **not specified**

Shear and Bulk viscosity for the pure glue theory using an effective matrix model

Thursday 5 September 2024 17:00 (25 minutes)

At nonzero temperature, the deconfining phase transition and the change in non-trivial holonomy can be analyzed using an effective matrix model. The shear, and bulk viscosities are computed in weak coupling but in non-zero holonomy. (shear viscosity/entropy density) decreases as we approach T_d , it is still well above the conformal bound. In contrast, (bulk viscosity/entropy density) is largest at T_d , comparable to (shear viscosity/entropy density), then falls off rapidly with increasing temperature and is negligible by $2T_d$.

Author: GHOSH, Ritesh (Arizona State University, USA)

Co-authors: DEBNATH, Manas (NISER Bhubaneswar); Dr HAQUE, Najmul (NISER Bhubaneswar); PISARSKI, Rob (brookhaven national lab); Dr HIDAKA, Yoshimasa (IPNS,KEK)

Presenter: DEBNATH, Manas (NISER Bhubaneswar)