

Electromagnetic conductivity of quark-gluon plasma at non-zero baryon density

понедельник, 8 ноября 2021 г. 16:30 (30)

We present our results on the study of the electromagnetic conductivity in dense quark-gluon plasma obtained within lattice simulations with $N_f=2+1$ dynamical quarks. We employ stout improved rooted staggered quarks at the physical point and the tree-level Symanzik improved gauge action. The simulations are performed at imaginary chemical potential and the Backus-Gilbert method is used to extract the conductivity from current-current correlators. Our preliminary results show an increase of conductivity with real baryon density.

Primary author(s) : BRAGUTA, Victor (MISIS, JINR)

Presenter(s) : BRAGUTA, Victor (MISIS, JINR)

Session Classification : Evening session 2

Track Classification : Quark-Gluon Matter at Finite Densities and Temperatures