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

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We present our results on the study of the electromagnetic conductivity in dense quark-gluon plasma obtained within lattice simulations with 🖾=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.

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