Charge and heat transport in hot quark matter with chiral dependent quark masses

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Flash Talk

- We have investigated the charge and heat transport in the presence of a weak magnetic field because these coefficients plays an important role in hydrodynamical study of strongly interacting matter.
- As strength of magnetic field becomes weak, novel phenomena similar to the Hall effect in condensed matter physics, emerges both in charge and heat transport.
- Alongwith this, there is lifting up of degeneracy in mass of chiral modes of quark in weak magnetic field, contrast to the case of strong magnetic field.
- We used this mass as an input in charge and heat transport and explored the results for left-handed and right-handed modes.

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