

Chirality and vorticity in heavy-ion collisions

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In relativistic heavy-ion collisions extreme matter out of quarks and gluons has been created and its intrinsic properties have been intensely discussed. The chiral sector, however, is hardly accessed, and the magnetic field is expected to be a useful probe. The lifetime of the magnetic field is still a subtle issue and recently the effect of vorticity is attracting more and more interest. Quark matter under the strong electromagnetic field is a matured subject, while QCD with vorticity needs more theoretical developments, some of which will be pedagogically explained in this talk.

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