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Type: **Talk**

Collective modes in chiral anisotropic quark-gluon plasma

Monday, August 30, 2021 11:00 AM (30 minutes)

We study collective modes in chirally asymmetric and momentum-anisotropic quark-gluon plasma, using a kinetic theory approach which is valid in the quasi-particle regime. We introduce a general ansatz to describe the parton distribution functions, and decompose the polarization tensor in terms of nine independent components. We derive and solve the dispersion equations. We discuss the dependence of the spectrum on the chiral chemical potential and the parameters that characterise the anisotropy of the distribution function. We study in particular the magnitude and domain of the unstable solutions, which can have an important influence on the system's dynamics.

Is this abstract from experiment?

No

Name of experiment and experimental site

N/A

Is the speaker for that presentation defined?

No

Details

N/A

Internet talk

Yes

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Session Classification: B Heavy Ion Collisions and Critical Phenomena