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Gamma Gamma pairs production from hot and dense quark gluon plasma

Tuesday, August 31, 2021 5:00 PM (30 minutes)

We study one of the important indirect signature of quark gluon plasma as electromagnetic signals. This work is carried out using a phenomenology of heavy-ion collisions in the limit of high temperature and chemical potential. The gamma gamma production rate is shown for lowest order process incorporating quark mass in the presence of chemical potential. The results are plotted in the relevant range of mass that is up to 4 GeV. Using a simple quasiparticle model, we found that gamma gamma emission spectra improved much in the presence of chemical potential. The results are useful and significant with the chemical potential.

Is this abstract from experiment?

No

Name of experiment and experimental site

NA

Is the speaker for that presentation defined?

Yes

Details

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Internet talk

Yes

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