



Contribution ID: 251

Type: **Poster presentation**

## Investigating diphoton mass spectrum from quark gluon plasma

*Monday 12 September 2022 17:00 (20 minutes)*

We study one of the important signature of quark gluon plasma (QGP) that is electromagnetic probes. The electromagnetic probes as diphotons are considered as a best signals for the formation and evolution of QGP. We investigated diphoton production rate using a phenomenological model with quasiparticle approach at higher temperatures above critical temperature. In this, we use effective quark mass in place of thermal dependent quark mass to show the behaviour of diphoton mass spectrum. The results of diphoton with effective quark mass are very much similar to the results produced in the presence of thermal quark mass. Therefore our results are not invalidate with the effective quark mass.

### Is this abstract from experiment?

No

### Name of experiment and experimental site

N/A

### Is the speaker for that presentation defined?

Yes

### Details

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### Internet talk

Yes

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**Session Classification:** High Energy Particle Physics