#### 9th International Conference on New Frontiers in Physics (ICNFP 2020)



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# Two-Photon Decays in a Relativistic heavy-ion collisions

Wednesday, 9 September 2020 12:40 (25 minutes)

We study the two photon decays using a phenomenological model emitted from a quark-gluon plasma at high temperature. For the phenomenology of heavy-ion collisions, we present  $\gamma\gamma$  emission spectra by taking into account the parametrization factors in thermal dependent quark mass. The rate of diphoton production is calculated and compared with the rate from hadronic matter. The production rate is found to increase marginally with the effect of thermal dependent quark mass. It means there is little enhancement in the results and is in good agreement with other works. The measurement of diphoton emission provides useful insights in the relevant range of mass. Therefore, a comparison rates make a useful beginning in the phenomenological study of high energy physics.

#### Internet talk

## 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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