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# Photon emission from a finite baryonic Quark-Gluon Plasma

The photon emission from a finite Baryonic Quark-Gluon Plasma is evaluated through the Annihilation and Compton processes using the Boltzmann distribution function. The evaluation is done with the consideration of a finite baryonic parameter in the quark mass and the coupling constant. By the consideration of this parameter in the system the production rate of photon is enhanced from the earlier theoretical calculations through this distribution function. It indicates that the improvement obtained in the emission rate shows the formation of Quark-Gluon Plasma in such a baryonic matter.

## Field of contribution

Phenomenology

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