

Emission of two gamma ray photon from quark-gluon plasma with chemical potential

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We work on the electromagnetic probes as gamma ray photon using phenomenological model. The model is based on quasi-particles in which finite quark mass is dependent on temperature as well as chemical potential under extreme condition of hot and dense quark matter. The production rate of two photons are found to be enhance with chemical potential with suitable initial conditions at RHIC and LHC. Our results are compared with earlier theoretical work. Therefore, these signatures are unique and considered as a clean probe for the detection of quark gluon plasma in the field of high energy physics.

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