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Dilepton emission from heavy ion collision of Quark -Gluon Plasma

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We extend to study the dilepton emission from heavy -ion collision of Quark-gluon Plasma incorporating the chemical potential and temperature dependent on quark mass. The dilepton emission rate is found to be enhanced in comparison to the earlier result of only temperature dependent value of quark mass and in comparison to other theoretical calculations. The study finds that the emission rate of dilepton through the chemical potential is increasing function depending on increasing value of chemical potential ranging from $\mu = 100 - 450$ MeV. This indicates that the overall result of dilepton emission through both temperature and chemical potential will provide better information about the signature of forming Quark-Gluon Plasma with this quasi-model quark mass.

Keywords: Dilepton; Quark-Gluon Plasma

On behalf of collaboration:

None

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