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PHOTON RADIATION AT FINITE BARYONIC QUARK-GLUON PLASMA

Content :

We study a simple statistical model of quark-gluon plasma evolution at the finite baryonic density through a dynamical flow parameter at the quark mass. The direct photon radiation at the finite baryonic quark-gluon plasma is calculated through annihilation and Compton process. The thermal photon emission rate is found that it is infrared divergent for zero mass quarks and the divergent is regulated in the quark mass introducing dynamical flow parameter of QGP fireball. The production rate of thermal photon is then found to be dominated in the low transverse momentum and it is increasing function with the increase in the variation of the value of chemical potential μ .

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