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Electromagnetic radiation as a deep probe with finite chemical potential from quark-gluon plasma

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We study the electromagnetic radiation from quark-gluon plasma using a simple model incorporating the phenomenological flow parameter of quarks and gluons in thermal dependent quark mass with the variation of quark chemical potential. The production rate is observed in the relevant range of transverse momentum. The photon production increases with increases the value of quark chemical potential. The results are thus compatible with the formation of quark-gluon plasma and compare with other work.

Author: Dr KUMAR, Yogesh (University of Delhi)

Co-author: Dr SINGH, S. Somorendro (University of Delhi)

Presenter: Dr KUMAR, Yogesh (University of Delhi)

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