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Effect of magnetic field on photon production in AA collisions

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We study the effect of magnetic field on the photon emission from the quark-gluon plasma (QGP) in AA collisions at RHIC and LHC energies. We develop a formalism for photon radiation from the QGP which accounts for interplay of the synchrotron mechanism and the photon emission due to multiple scattering. We show that multiple scattering suppresses strongly the synchrotron contribution. Our numerical calculations show that, contrary to the previous qualitative calculations (K. Tuchin, Phys.Rev. C91 (2015), 014902) the effect of magnetic field on the photon emission in AA collisions for the RHIC and LHC conditions is very small.

Summary

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