

The magnetized shiny pre-equilibrium QGP

The intense magnetic fields produced at the early stages of a heavy ion reaction make it possible to produce photons from processes otherwise not allowed, for instance, the fusion of gluons. In addition, magnetic fields naturally produce an asymmetry in the emission of electromagnetic radiation, hence they can be considered as a source of the large strength of the coefficient v_2 .

In this work we compute the fraction of the yield and the asymmetry generated by magnetic fields induced by gluon fusion during the early, pre-equilibrium stage of the reaction. This will be followed by the comparison with most recent data from PHENIX and ALICE.

Preferred Track

Electromagnetic Probes

Collaboration

Not applicable

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