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Chromomagnetism in quark-gluon plasma

Content :

Quarks are color charged particles. Due to their motion there is a strong possibility of generation of color magnetic field in deconfined matter. We have studied chromomagnetic properties of this deconfined matter assuming it to be overall color singlet. The chromomagnetic quantities have been calculated by using partition function for the color singlet quark-gluon plasma. Further, the possibilities and consequences of phase transition in quark-gluon plasma are being explore.

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