Magnetic Field Effects on Photons in Heavy Ion Collisions

Saturday, 26 April 2025 16:10 (25 minutes)

In this presentation, I will examine the role of intense magnetic fields generated in relativistic heavy ion collisions and their observable effects on photon production. These magnetic fields, among the strongest in the known universe, can interact with the quark-gluon plasma (QGP) and its surrounding charged particle dynamics, leaving imprints on emitted photons. I will synthesize recent advances in theoretical frameworks, focusing on how magnetic fields influence photon emissions and azimuthal anisotropy.

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