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Electromagnetic Probes of the QCD Plasma

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The penetrating nature of electromagnetic radiation makes it an ideal candidate to investigate the properties of the Quark-Gluon Plasma (QGP). A selection of recent developments in the theory and phenomenology of electromagnetic probes is discussed, with an emphasis towards how they can be employed to constrain transport phenomena in the QGP. The complementary between electromagnetic radiation and other high-energy phenomena, such as jets, will also be explored. A Bayesian treatment of electromagnetic emissions, akin to the one performed using soft hadronic observables and jets, is suggested as a path towards imposing more stringent constraints on various transport coefficients of the QCD medium.

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