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Holographic approaches to the study of strongly interacting matter in extreme conditions

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The strong correlations observed in particle production in heavy ion collisions suggest strong interaction between the quarks and gluons that form the Quark Gluon Plasma. These interactions are so large that indicate that the QGP close to the deconfining transition may no be well approximated by a gas of quasiparticles. This has highlighted the need to develop new tools able to describe real-time processes in non-abelian gauge theory plasmas without quasiparticles. Holography provides such a tool. In this talk I will review recent theoretical and phenomenological results arising from the gauge/gravity duality that shed light on how strongly coupled plasma is produced, interacts and quenches energetic probes.

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