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【263】 Understanding hybrid strong/weak thermalisation of the QGP

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Iancu and Mukhopadhyay have proposed a semi-holographic model for heavy-ion collisions, where the saturated hard gluons produced at initial stages are coupled consistently to a holographic theory representing the radiatively emitted strongly coupled soft gluons. The goal is to study thermalization with the ultraviolet (UV) modes described by pQCD and the infrared (IR) modes by gauge/gravity duality. I will describe further progress made in this direction, particularly in the limit where the UV description reduces to kinetic/hydrodynamic theory and the IR description to a strongly coupled fluid. The UV and IR are coupled by self-consistently determined effective metrics. We find novel qualitative behavior of the combined system.

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