

Initial stage from holography

Wednesday, 25 May 2016 17:50 (20 minutes)

In the past years much progress has been made to understand the initial stage of heavy ion collisions at very strong coupling. I will briefly review this approach, which in particular led to a full 3+1D simulation of off-central collisions using the MUSIC hydrodynamic code.

I will report on progress on collisions with a conserved charge [1], which will be relevant for the beam energy scan. New results will also include event-by-event fluctuations, which may in part explain why previous strongly coupled studies overestimated the entropy production.

[1] To appear, with Jorge Casalderrey-Solana, David Mateos and Miquel Triana

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Session Classification: Parallel