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# Early thermalisation, hydrodynamics, and energy loss in holographic heavy ion collisions

This talk will review recent progress in using holography to learn lessons about heavy ion collisions. I will illustrate the use of holography for the earliest stage of HIC, before hydrodynamics applies, and also during the hydrodynamic evolution in order to describe the energy loss and shape evolution of jets traversing the hydrodynamic medium. Interesting results include the fast applicability of hydrodynamics (within 0.1 fm/c), a Gaussian rapidity profile of the energy density, and a characteristic dependence of energy loss on the width of a jet.

## I intend to submit my contribution for the proceedings

No

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