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# Attractors in flows with transverse dynamics

*Thursday 8 September 2022 16:10 (20 minutes)*

The medium formed after an ultrarelativistic heavy ions collision is subjected to a strong expansion along the beam (longitudinal) direction. The rapid longitudinal expansion gives rise to rapid hydrodynamization due to the so-called early-time attractor solution. Focussing on ultrarelativistic kinetic theory in the relaxation-time approximation, we address the robustness of this attractor in systems with detailed transverse profile and discuss the effect of transverse dynamics on attractor-like behavior.

[1] VEA, S. Busuioc, J. A. Fotakis, K. Gallmeister, C. Greiner, Phys. Rev. D 104 (2021) 094022.

## Is this abstract from experiment?

No

## Name of experiment and experimental site

N/A

## Is the speaker for that presentation defined?

Yes

## Details

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## Internet talk

Maybe

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**Session Classification:** Heavy Ion Collisions and Critical Phenomena