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Exploring Cosmic Censorship in a Collider

Thursday 5 September 2024 15:10 (20 minutes)

I present a new mechanism to generate large curvatures in asymptotically AdS spaces, in rather generic boost invariant setups. On the gravity side, curvature invariants grow in an extended region of spacetime in the bulk. When their values hit Planck scale, the classical approximation breaks down and higher curvature corrections should be taken into account. On the gauge theory side, this signals the breakdown of the holographic description of the dual plasma due to finite N , finite coupling corrections. This is one of the rare instances where quantum gravity effects become significant and observable in a sizable region.

Link to publication (if applicable)

This is based on work in a forthcoming paper.

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