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Boundary energy-momentum tensor for asymptotically flat spacetimes

Wednesday 13 August 2025 16:00 (30 minutes)

I will discuss the construction of a boundary energy-momentum tensor for asymptotically flat spacetimes. This involves rewriting Einstein's equations in a way that is covariant with respect to the Carrollian boundary geometry and turns part of the Einstein equations into Ward identities for the Carrollian energy-momentum tensor. I will also discuss holographic renormalisation for asymptotically flat spacetimes. This provides new insights into a putative holographic description of flat spacetime in terms of a boundary Carrollian conformal field theory.

Presenter: HAVE, Emil