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Spherical hyperboloidal evolutions in Generalized Harmonic Gauge

Thursday 19 December 2024 15:00 (15 minutes)

In this talk I will present successful numerical evolutions of the Generalized Harmonic Gauge formulation of General Relativity using hyperboloidal coordinates within the Dual-Foliation formalism, restricted to spherical symmetry. I will show how we can recover the expected physics at future null infinity from first principles. I will end by discussing formally singular terms appearing in the equations and how to deal with them.

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