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New symplectic formalism for spacetimes with marginally outer trapped tubes

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Marginally outer trapped tubes are one of the essential tools to understand the dynamical evolution of Black Holes. In this talk, I will present a new symplectic formalism that applies to various spacetimes containing a BH. This framework allows studying charges, flux laws, and higher multiple moments. All this is directly linked to the study of gravitational waves.

Keyword-1

General Relativity

Keyword-2

Covariant formulation

Keyword-3

Black holes

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