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Charges and fluxes of the gravitational field: conformally invariant approach valid for non zero cosmological constant

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A covariant and conformally invariant approach to the symplectic structure of gravitational fields is natural to introduce when considering spacetimes with a nonzero cosmological constant. It utilizes the Normal Conformal Cartan Connection as a fundamental element of construction. The resulting symplectic potential is explicitly conformally invariant. One consequence is the regular behavior of the potential on conformal boundaries of spacetime. Another consequence is the advantages arising from the application in the bulk.

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