



# GRAVITY: CHALLENGES BEYOND GENERAL RELATIVITY

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## A new formulation of conserved quantities in generic gravity theories

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For asymptotically constant curvature spaces, such as (A)dS, the conserved quantities depend not only on the geometry but also on the theory under consideration. I shall give a new construction of conserved charges both in cosmological Einstein's theory and generic  $f(\text{Riemann})$  theories. The final expressions are in terms of the linearized Riemann tensor at the boundary of spacetime and are explicitly gauge invariant.

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