Geometric Foundations of Gravity 2025



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Black holes and naked singularities in four dimensional dS and AdS Chamseddine gravity

We analyze solutions of Chamseddine's topological gravity in four space-time dimensions and discover various black hole solutions with(out) torsion as well as those that describe naked singularities. Because all of the solutions belong to the sector with vanishing scalar fields, they share peculiar trait that all conserved charges are vanishing.

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