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Gravitational Solitons in Anti-de Sitter Spacetimes

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Gravitational solitons are globally stationary, geodesically complete spacetimes with positive energy. Interestingly, they do not have an event horizon, and according to the Lichnerowicz Theorem, no such electrovacuum solutions exist in four dimensions. In this talk, I will introduce a family of gravitational solitons in anti-de Sitter spacetimes. I will explain their geometric and thermodynamic properties.

Keyword-1

gravitational solitons

Keyword-2

relativity

Keyword-3

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