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Gravity and Holography Between Newton and Einstein

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Newton-Cartan geometry was introduced more than 90 years ago in order to find a geometric formulation of Newtonian gravity. This geometry (including a novel generalisation that includes torsion) has in recent years gained renewed interest as it appears in a variety of settings in modern theory involving gravity, string theory and holography. After a brief introduction, I will talk about recent work on an action principle for non-relativistic gravity, including its Newtonian limit. I will also discuss its relevance in connection to string theory and holography.

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