

Nonlocal gravity from generalised spacetime structure

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There are two basic ways of modifying gravity: considering either more general theories for the metric or allowing spacetime degrees of freedom besides the metric. Here the aim is to find possible relations between gravitational theories obtained within these two seemingly distinct approaches. In the framework of the so called C-theories the spacetime connection has a prescribed relation to the curvature of the spacetime, generalising the usual Palatini theories. On the other hand, they can be related to non-local metric models. This hints at a novel geometrical interpretation of a nonlocal structure as an emergent property of non-Riemannian spacetime structure.

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