

05. December 2018

GRK Colloquium - University of Hannover

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Journals' Club

Einstein–Cartan theory

Abstract

The Einstein–Cartan theory is a viable theory of gravitation that differs very slightly from the Einstein theory; the effects of spin and torsion can be significant only at densities of matter that are very high, but nevertheless much smaller than the Planck density at which quantum gravitational effects are believed to dominate. It is possible that the Einstein–Cartan theory will prove to be a better classical limit of a future quantum theory of gravitation than the theory without torsion.

Summary from: <https://arxiv.org/pdf/gr-qc/0606062.pdf>