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Avoiding Singularities with Propagating Torsion

Friday, 12 July 2024 15:20 (20 minutes)

We consider the torsional completion of the theory of gravity in which torsion is a propagating axial-vector field: we show how this changes the energy conditions leading to the singularity formation being avoided. We discuss how the same construction possesses regular matter distributions even in the case of a single particle. We give a brief discussion also about the localization of such matter distribution.

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Session Classification: Wormholes, energy conditions and time machines

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