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Gravitational waves on Riemann-Cartan geometries

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We offer a mathematical toolkit for the study of waves propagating on a background manifold with nonvanishing torsion. As an example, we briefly analyze the amplitude propagation of gravitational waves in an Einstein-Cartan-Sciama-Kibble (ECSK) assuming a dark matter spin tensor sourcing for spacetime torsion at cosmological scales and assess whether a future detection by LISA is possible.

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