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Scale and Weyl invariance in metric-affine theories of gravity

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Scale invariance is a desirable feature of any quantum field theory that wants to be complete in the ultraviolet and, as a consequence, more predictive. With this motivation in mind, we discuss a geometrical construction, based on the gauging of Weyl symmetry, of theories of gravity that are scale invariant. We pay particular attention to the behavior of affine degrees of freedom, such as spacetime's torsion, under Weyl transformations.

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