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Asymptotically safe Einstein Palatini gravity

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The Einstein-Palatini formulation of gravity treats the metric and the connection as independent degrees of freedom. The most general extension on the level of the Einstein-Hilbert action equips the connection with a U(1)-symmetric vector field as an addition to the conventional Levi-Cevita connection. Making a scale-dependant analysis within the Asymptotic Safety scenario of quantum gravity by employing the Functional Renormalization Group equation, we find a Reuter-like UV-attractive fixed point that is supportive of the weak gravity bound.

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