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## The Fate of Pseudo-Weyl Invariance

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In the context of studying Unimodular Gravity (UG), it is useful to consider a more general scalar-tensor theory obtained from the General Relativity (GR) lagrangian by the process of group averaging. Such theory inherits the diffeomorphism invariance of GR but has a tautological Weyl invariance. This theory can reduce both to GR and UG depending on the gauge fixing choice for the conformal symmetry. We use a toy model to study whether this “fake” symmetry is anomalous at the quantum level.

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