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Essential Renormalization Group Equation for Gravity coupled to Scalar Matter

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In the renormalization group approach, it is known that inessential couplings could be removed by the field redefinitions. Recently it is pointed out that the quadratic curvature terms fall into this class of operators, and next cubic term is irrelevant. This suggests that the Einstein and cosmological term is enough to define asymptotically safe quantum gravity for pure gravity. Here we extend the study to the case when the matter is present.

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