

Abstract Submitted
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Blurry Einstein Equation¹ BATOUL BANIHASHEMI, TED JACOBSON, Univ of Maryland-College Park — The derivation of Einstein's equation from entanglement equilibrium (arxiv:1505.04753) has a limited resolution. It is inherently blurred by terms suppressed by the ratio of the Planck length to the curvature length scale. We explore the potential influence of such blurring on solutions, using both generally covariant and non-covariant models. We find indications that in the non-covariant case large deviations from the predictions of the Einstein equation might be inherited today from the early universe, whereas in the covariant case the deviation remains suppressed.

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