Introduction to Non-perturbative Gravity

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Abstract

We present a non-perturbative explanation of the dynamics of non-perturbative gravity. We treat the Lagrangian as a function of the standard model parameters and derive the equations of motion of non-perturbative gravity. We study the effects of a non-perturbative scalar field on the dynamics of the theory. The effects of a non-perturbative scalar field on the temperature, the number of degrees of freedom, and the curvature of the scalar field are discussed. The results obtained here are compared to some recent results for non-perturbative gravity.