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Title: Essential Non-perturbative renormalisation group

Abstract: I will give an introduction to non-perturbative renormalisation group techniques which can be applied to a variety of different physical (strongly correlated) systems from the Ising model to quantum gravity. I'll then discuss essential formalism which takes advantage of the freedom to perform general field redefinitions. Using the 3D Ising model as an example, I will explain how this new approach simplifies the renormalisation group equations since only the essential coupling constants need to be renormalised.
