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Instantaneous Stochastic Perturbation Theory and Gradient flow in ϕ^4 theory

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Lüscher recently introduced Instantaneous Stochastic Perturbation Theory (ISPT) as a method for the stochastic evaluation of lattice perturbation theory. We present an exploratory study of its properties in ϕ^4 theory, and we compare it with both analytical computations and Numerical Stochastic Perturbation Theory. In addition, we propose an automated method based on ISPT for solution of the Gradient flow equations.

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