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Lattice vs perturbation theory : Testing the Abelian-Higgs model at three loops

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In this talk I compare perturbative and lattice results for the Abelian-Higgs model in three dimensions. In particular, I show that new lattice results agree remarkably well with three-loop perturbative predictions. I also present the second-order end point for the theory and discuss lattice vs perturbation theory for related models.

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