

Abstract

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1 Introduction

Brief intro about the paper. Past work, theory, references.

2 Theoretical background

Explain the concepts of lattice gauge theory, Wilson and Polyakov loops, center symmetry and $\text{Sp}(2)$ group. Mostly from Pepe's work.

Read the paper by Caselle to see if there is something to pure here (SY conjecture? String tension? Universality with spin model? EST?)

3 Simulation and algorithm

Introduce the algorithm used in the simulation. Creutz, Cabibbo Marinari. Explain in details what the code does (without explicitly pasting the code): for example, how to extract $\text{SU}(2)$ matrices from $\text{Sp}(2)$.

4 Results

Put plots and results of the fit and simulations: fit of susceptibility peaks, fit of beta vs nt, etc.

To understand how EST works, let us describe