



Contribution ID: 116

Type: **Talk**

Phase structure analysis of CP(N-1) model using Tensor renormalization group

Monday, 25 July 2016 17:05 (20 minutes)

We investigate the phase structure of the lattice CP(N-1) model in two dimensions by using the tensor renormalization group (TRG) method. The TRG method has no sign problem even though the action is complex. We focus on the case N=2 and compare the numerical result of the TRG method with that of the strong-coupling analysis in the presence of the theta term.

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Session Classification: Theoretical Developments

Track Classification: Theoretical Developments