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

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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.

Primary author: Mr KAWAUCHI, Hikaru (Kanazawa University)

Co-author: Dr TAKEDA, Shinji (Kanazawa University)

Presenter: Mr KAWAUCHI, Hikaru (Kanazawa University)

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