

Z_2 gauge theory with tensor renormalization group

Thursday, July 26, 2018 9:50 AM (20 minutes)

Tensor renormalization group is a new type of numerical method which does not suffer from the sign problem. We have developed the tensor renormalization group for 3-dimensional Z_2 gauge theory. We apply it to finite temperature Z_2 gauge theory in (2+1) dimensions and compare the results with those obtained by a previous Monte Carlo study.

Primary author: YOSHIMURA, Yusuke (CCS, University of Tsukuba)

Co-author: KURAMASHI, Yoshinobu (CCS, University of Tsukuba)

Presenter: YOSHIMURA, Yusuke (CCS, University of Tsukuba)

Session Classification: Theoretical Developments

Track Classification: Theoretical Developments