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Grassmann Tensor Renormalization Group Study of Lattice QED with Theta Term in Two Dimensions

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The tensor renormalization group is one of the successful methods to tackle systems whose action is complex, though the practical calculations in higher dimensions is beyond the reach of current computer facilities. The Grassmann tensor renormalization group is a generalization to systems including fermions. As a pilot study toward lattice QCD, we apply it to two-dimensional lattice QED and investigate its phase structure with the theta term.

Primary author: Dr SHIMIZU, Yuya (RIKEN)

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

Presenter: Dr SHIMIZU, Yuya (RIKEN)

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