

Analysis of entanglement entropy based on tensor renormalization group

Thursday, 30 November 2023 16:30 (15 minutes)

The tensor renormalization group (TRG) method was originally proposed in condensed matter physics and has recently been drawing attention in particle physics. We investigated the shape dependence of entanglement entropy in the two-dimensional Ising model using the TRG method and obtained the central charge of the theory from the scaling property of entanglement entropy. We also developed a brand new method to analyze the shape dependence of entanglement entropy within the TRG framework.

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Session Classification: Parallel Session B