

A statistical mechanics approach to holographic renormalization group

Thursday, 28 March 2024 12:00 (20 minutes)

We discuss a holographic aspect of the Bethe lattice Ising model, which is a classic model of the phase transition in statistical mechanics and, at the same time, the simplest example of the tree tensor network. We analytically formulate a holographic renormalization group for the model and explain how the power-law decay of the boundary spin correlations emerges based on the network geometry. We also discuss its connection to the p-adic AdS/CFT.

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