

Probing the Fundamental Nature of Spacetime with the Renormalization Group

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RG flow in Causal Dynamical Triangulations

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Causal Dynamical Triangulations (CDT) is a background independent approach to quantum gravity.

In this talk I will present recent studies of the effective transfer matrix.

The introduced method allows observing a possibly new 'bifurcation' phase.

I will also define a notion of 'lines of constant physics' in the coupling constant space and investigate the renormalization group flow in CDT.

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