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Thermodynamics of TT-bar deformed O(N) vector model

Wednesday, 16 December 2020 16:00 (20 minutes)

We investigate an irrelevant deformation of 2D quantum field theories, called "TT-bar deformation". Although this is known as an integrable deformation, its quantum aspects have not been completely understood yet. For example, TT-bar deformation of the free massless O(N) vector model is said to be Nambu-Goto action in the static gauge. In this talk, we compute the thermal free energies in both theories, and discuss the equivalence between TT-bar deformed O(N) vector model and Nambu-Goto action at quantum level.

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