

TT-bar deformation in large N limit

Thursday, December 5, 2019 3:00 PM (3 hours)

We consider two dimensional TT-bar deformed $O(N)$ invariant massive scalar theory in large N limit, and investigate its renormalizability at $1/N$ (next to leading) level. As a result, we find that we need to renormalize the deformation parameter at leading level, and non-local counterterms at $1/N$ (next to leading) level. Also we find that positivity of state space is violated in the UV region even after renormalization.

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