

## **TT-bar deformation in large N limit**

*Thursday, 5 December 2019 15:00 (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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**Session Classification:** Poster