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Large-N CP(N-1) sigma model on a finite interval and its boundary effect

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We study the large-N solution of the bosonic CP(N-1) model on a finite interval
with the Dirichlet conditions. In the literature, this model has been studied with
translational invariant ansatz and there an existence of phase transition was found.
We find that this
translational invariant ansatz can not give a solution of the gap equation and
divergence behavior appears around the boundaries, and resultantly
the phase transition do not appear in this system.

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