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Convexity and large charge for the large-N vector model

The large-charge expansion is very effective in extract physical information also for systems that have an alternative perturbative expansion.

I will show how to use it to derive the leading-N effective potential for the O(N) vector model without using Feynman diagrams and I will use its convexity properties to discuss the consistency of different possible phases in various dimensions.

Primary author:Dr ORLANDO, Domenico (INFN Torino)Presenter:Dr ORLANDO, Domenico (INFN Torino)Session Classification:BSM

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