ID contributo: 40 Tipo: non specificato

## Investigation of the topological properties of the CP^(N-1) model

giovedì 14 dicembre 2017 18:00 (20 minuti)

We measured the theta-dependence of the vacuum energy density of the  $CP^{(N-1)}$  model up to  $O(\text{theta}^6)$  for N = 15, 21, 26 and 31 using Monte Carlo simulations.

We then extrapolated the large-N limit of the topological susceptibility chi and of the higher-order coefficients  $b_2$  and  $b_4$  and compared it with the analytic results. In particular, we compared the leading term of the 1/N expansion of these observables and, for the topological susceptibility, the next-to-leading-order term too.

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