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# Indications of isotropic Lifshitz points in $d=4$ dimensions

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## Abstract

The presence of isotropic Lifshitz points for a  $O(N)$ -symmetric scalar theory is investigated with the help of the Functional Renormalization Group. In particular at the supposed lower critical dimension  $d=4$ , indications of a line of fixed points are found for the  $O(2)$  theory, with evident similarities with the properties observed in the 2-dimensional Berezinsky-Kosterlitz-Thouless phase.

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