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Tetracriticality in $O(N)$ models

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We study the tetracritical fixed point in $O(N)$ models with NPRG. Increasing N , we find that the tetracritical FP continues to exist up to $N=\infty$, which is a different scenario from what we found for the tricritical FP. The FP approaches the WF FP except at a field value. We actually find that higher derivatives of the FP potential at the special point becomes singular in a way that the FP cannot be found with conventional large N analysis.

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