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## Interacting fixed points of fermionic field theories

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Using functional RG for fermions, we study new fixed points of 3d Gross-Neveu theories beyond chiral symmetry. At large  $N$  we find that the sextic coupling becomes exactly marginal, leading to a line of UV fixed points. We discuss the generation of mass in these theories, the phase diagram and the Bardeen-Moshe-Bander phenomenon for fermions. Similarities with critical scalar theories are highlighted. We also discuss aspects of four-fermion interactions in four dimensions.

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