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Lattice Four Fermion Interaction in Beyond Standard Model Physics

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Four fermion interactions occur naturally in several extensions of the Standard Model as a low energy description of a more fundamental theory. In models of dynamical electroweak symmetry breaking, they are used to provide Standard Model fermion masses. When sufficiently strong, these operators can drastically alter the fundamental composite dynamics. For example, they can, turn an infrared conformal model into a (near conformal) chirally broken one, or modify the anomalous dimensions at the infrared fixed point. As a first step we study the lattice version of the Nambu Jona-Lasinio model, a chirally symmetric model with four fermion interactions, with Wilson fermions.

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