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Nambu–Jona-Lasinio Models with Supersymmetry and Phenomenology

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The Nambu–Jona-Lasinio model is the classic model of nonperturbative physics generating an effective Higgs field as dynamical composite giving symmetry breaking and mass generation. We discuss the line of supersymmetric versions of NJL type models we studied in the recent years and their possible phenomenological applications in the setting of the supersymmetric standard model. The nontrivial nature of the notion of supersymmetrization for both the case of spin zero and spin one composites will also be illustrated.

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