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Dynamical generation of fermion mixing

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We present a dynamical mechanism à la Nambu-Jona-Lasinio for the generation of masses and mixing for two interacting fermion fields. The analysis is carried out in a framework in which mass generation is achieved via inequivalent representations, and that we generalize to the case of two generations. The method allows a clear identification of the vacuum structure for each physical phase, confirming previous results about the distinct physical nature of the vacuum for fields with definite mass and fields with definite flavor.

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