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## **Borici-Creutz fermions on 2-dim lattice**

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Minimally doubled fermions(MDF) having only two species could be promising formalism to study chiral fermion on a lattice. The action being ultra-local, one expects that the MDF formulations might provide computationally cheaper alternatives to the existing lattice chiral formulations. Borici-Creutz fermion is one such minimally doubled fermion formulation. In this work, we explore the Borici-Creutz fermion formulation in simple a 2d Gross-Neveu model and in QED2 with Hybrid Monte Carlo simulation. We study chiral symmetry breaking and mass spectrum in Gross-Neveu model .

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