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Supersymmetric construction of self-consistent condensates in large N GN model: solitons on finite-gap potentials

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In the present work the set of stationary solutions of the Gross-Neveu model in t'Hooft limit is extended. Such extension is obtained striving a hidden supersymmetry associated to disconnected sets of stationary solutions. It is shown how the supersymmetry arises from the Darboux-Miura transformations between Lax pairs of stationary modified Korteweg-de Vries and the stationary Korteweg-de Vries hierarchies, associating the correspondent supercharges to self-consistent condensates for the Gross-Neveu model.

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