The Ground States for Hartree-Fock Systems with a General Nonlinearity

Hua Jin^1 and Mingzhen Chen¹

¹China University of Mining and Technology

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Abstract

We consider the least energy solutions of Hatree-Fock system with the coupling term $\Phi_{u,v}$ in the two equations, and the nonlinearity are general subcritical with a small perturbation. By Nehari's manifold approach, the existence of non-trivial ground state solutions is obtained. The asymptotic behaviors with respect to parameters λ and β are also studied.

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