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The pseudorelativistic Hartree equation with a general nonlinearity: existence, non existence and variational identities

Dimitri Mugnai

(Submitted on 5 Jun 2012)

We prove several existence and non existence results of solitary waves for a class of nonlinear pseudo-relativistic Hartree equations with general nonlinearities. We use variational methods and some new variational identities involving the half Laplacian.

Subjects: **Analysis of PDEs (math.AP)**

MSC classes: 35Q55, 35A15, 35J20, 35Q40, 35Q85

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