

SEMINÁRIOS DE ANÁLISE

The first eigenvalue for a quasilinear Schrödinger operator and its application

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Abstract.

In this work we establish the existence of standing wave solutions for quasilinear Schrödinger equations involving subcritical growth. By using a change of variables, the quasilinear equation is reduced to semilinear one, which associated functional is well defined in the usual Sobolev space. And we studied the "first" eigenvalue type of a nonhomogeneous operator, which is greater than the first eigenvalue of the usual laplacian operator. As an application we treat a quasilinear resonance problem involving a subcritical growth perturbation.