On some minimization problems in $\mathbb{R}^N$

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SUMMARY

We present some recent improvements of the concentration-compactness principle and show that they give a new insight in some minimization problems arising in the study of solitary waves for nonlinear dispersive equations. We consider both local and nonlocal equations having a Hamiltonian structure.

Keywords: constrained minimization, ground states, concentration-compactness principle

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