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Normalised Solutions for p-Laplacian equations

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Abstract

We discuss the existence of normalised solutions to Schrödinger equations with potentials. As a generalization, we show a recent result on Normalised solutions for p-Laplacian equations with L_p -supercritical growth. The existence of normalized solutions depends on conditions on the involved potential. The derived PDE is a fundamental equation in quantum mechanics, used to model, for instance, nonlinear optical problems or Bose-Einstein condensates several types of potentials.

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