

國立清華大學數學系學術演講

NTHU MATH Colloquium

講題 The Nehari manifold of saturable nonlinear Schrödinger equations with intensity functions

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地點 4F Lecture Room B, General Building III

茶會 15:30, R707

Abstract

In this talk, we will study saturable nonlinear Schrödinger equations with nonzero intensity function which makes the nonlinearity become not superlinear near zero. Using the Nehari manifold and the Lusternik-Schnirelman category, we prove the existence of multiple positive solutions for saturable nonlinear Schrödinger equations with nonzero intensity function which satisfies suitable conditions. The ideas contained here might be useful to obtain multiple positive solutions of the other non-homogeneous nonlinear elliptic equations.