

## Department Colloquium

Speaker: Yanxia Deng, Queen's University

Date: Friday, February 5

Time: 2:30 p.m.

Place: Jeffery 234

Title: Conley-Zehnder index and some applications

**Abstract:** I will talk about a bifurcation phenomenon of fixed points of Hamiltonian maps and provide an instability criterion of periodic orbits in Hamiltonian systems. These results are applications of the Conley-Zehnder index for Symplectic paths.