

abstract

GEOMETRY/DYNAMICAL SYSTEMS SEMINAR

Topic:

Speaker:

Affiliation:

Date:

Time/Room:

Rabinowitz-Floer homology is the semi-infinite dimensional Morse homology associated to an action functional which played a major role in the pioneering work of Rabinowitz. Critical points of Rabinowitz action functional are Reeb orbits while gradient flow lines satisfy a vortex type PDE. Rabinowitz Floer homology has applications to the global perturbation theory of Hamiltonian systems, the study of magnetic monopoles as well as contact and symplectic topology. Moreover, it is intended to put a solid foundation on Givental's mirror symmetry without mirror.