Westfälische
Wilhelms-Universität
Münster

FACHBEREICH 10
MATHEMATIK UND INFORMATIK
Prof. Dr. Matthias Löwe
Dekan

29.04.2011

Einladung

Am Dienstag, 03.05.2011, 10:15 Uhr, Seminarraum N 2

spricht

Prof. Dr. Urs Frauenfelder, Seol National University

über

Rabinowitz Floer homology

Zusammenfassung:

The Morse inequalities provide a lower bound on the number of critical points of a Morse function in terms of topological datas. Periodic orbits can be interpreted as critical points of an action functional on the loop space. Floer found a way to obtain the Morse inequalities in this infinite dimensional set-up in his celebrated proof of the Arnold conjecture. There are two problems in the search of periodic orbits - the fixed period problem looks for periodic orbits of a fixed period but arbitrary energy while the fixed energy problem is interested in periodic orbits on a fixed energy hypersurface whose period might be arbitrary. While Floer theory adresses the first problem Rabinowitz Floer homology adresses the second one. In my talk I will introduce Rabinowitz Floer homology and discuss its connection with loop space topology.

Auf diesen Vortrag wird besonders hingewiesen

Matthias Löwe, Dekan