



# Peter Albers (ETH Zürich)

## Leaf-wise intersections and Rabinowitz Floer homology

**ZEIT:**

10.6.2009, 16:30 Uhr

**ORT:**

HU Berlin  
Institut für Mathematik  
Rudower Chaussee 25, Raum 1.410  
Berlin-Adlershof

This is joint work with Urs Frauenfelder. We address the leaf-wise intersection problem for hypersurfaces of restricted contact type. This problem originates from work of Moser in 1978. We show how critical points of a perturbed Rabinowitz action functional give rise to a solution of this problem.

From this we derive existence results for Hofer-small Hamiltonian diffeomorphism. If the Rabinowitz Floer homology does not vanish we obtain existence results for general Hamiltonian diffeomorphisms.

**Kontakt:**

Humboldt-Universität zu Berlin . Institut für Mathematik  
SFB 647 . Unter den Linden 6 . 10099 Berlin  
Tel. +49 30 2093 1804 . Fax. +49 30 2093 2727  
sfb647@math.hu-berlin.de

[www.raumzeitmaterie.de](http://www.raumzeitmaterie.de)