



Peter Albers (ETH Zürich)

Leaf-wise intersections and Rabinowitz Floer homology

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Institut für Mathematik
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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