

Symplectic Invariants and Hamiltonian Dynamics

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Symplectic Invariants And Hamiltonian Dynamics

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Symplectic Invariants and Hamiltonian Dynamics Helmut Hofer, Eduard Zehnder, 2011-03-31 The discoveries of the last decades have opened new perspectives for the old field of Hamiltonian systems and led to the creation of a new field symplectic topology Surprising rigidity phenomena demonstrate that the nature of symplectic mappings is very different from that of volume preserving mappings This raises new questions many of them still unanswered On the other hand analysis of an old variational principle in classical mechanics has established global periodic phenomena in Hamiltonian systems As it turns out these seemingly different phenomena are mysteriously related One of the links is a class of symplectic invariants called symplectic capacities These invariants are the main theme of this book which includes such topics as basic symplectic geometry symplectic capacities and rigidity periodic orbits for Hamiltonian systems and the action principle a bi invariant metric on the symplectic diffeomorphism group and its geometry symplectic fixed point theory the Arnold conjectures and first order elliptic systems and finally a survey on Floer homology and symplectic homology The exposition is self contained and addressed to researchers and students from the graduate level onwards

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The Floer Memorial Volume Helmut Hofer, Clifford H. Taubes, Alan Weinstein, Eduard Zehnder, 2012-12-06 Andreas Floer died on May 15 1991 an untimely and tragic death His visions and far reaching contributions have significantly influenced the developments of mathematics His main interests centered on the fields of dynamical systems symplectic geometry Yang Mills theory and low dimensional topology Motivated by the global existence problem of periodic solutions for Hamiltonian systems and starting from ideas of Conley Gromov and Witten he developed his Floer homology providing new powerful methods which can be applied to problems inaccessible only a few

years ago This volume opens with a short biography and three hitherto unpublished papers of Andreas Floer It then presents a collection of invited contributions and survey articles as well as research papers on his fields of interest bearing testimony of the high esteem and appreciation this brilliant mathematician enjoyed among his colleagues Authors include A Floer V I Arnold M Atiyah M Audin D M Austin S M Bates P J Braam M Chaperon R L Cohen G Dell Antonio S K Donaldson B D Onofrio I Ekeland Y Eliashberg K D Ernst R Finthushel A B Givental H Hofer J D S Jones I McAllister D McDuff Y G Oh L Polterovich D A Salamon G B Segal R Stern C H Taubes C Viterbo A Weinstein E Witten E Zehnder

Symplectic Approximation of Hamiltonian Flows and Accurate Simulation of Fringe Field Effects Béla Erdélyi, 2001 *Symplectic Singularities and Geometry of Gauge Fields* Robert Budzyński, 1997 The Kyle T. Alfried Astrodynamics Symposium Shannon L. Coffey, 2011 **Physics Letters**, 1999 □□□□, 2003 *Geometry and Topology of Caustics -- Caustics ...*, 2002

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