

Convexity properties of Hamiltonian group actions

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Convexity Properties Of Hamiltonian Group Actions

Rachel Sandford



Convexity Properties Of Hamiltonian Group Actions:

Convexity Properties of Hamiltonian Group Actions Victor Guillemin,Reyer Sjamaar, This is a monograph on convexity properties of moment mappings in symplectic geometry The fundamental result in this subject is the Kirwan convexity theorem which describes the image of a moment map in terms of linear inequalities This theorem bears a close relationship to perplexing old puzzles from linear algebra such as the Horn problem on sums of Hermitian matrices on which considerable progress has been made in recent years following a breakthrough by Klyachko The book presents a simple local model for the moment polytope valid in the generic case and an elementary Morse theoretic argument deriving the Klyachko inequalities and some of their generalizations It reviews various infinite dimensional manifestations of moment convexity such as the Kostant type theorems for orbits of a loop group due to Atiyah and Pressley or a symplectomorphism group due to Bloch Flaschka and Ratiu Finally it gives an account of a new convexity theorem for moment map images of orbits of a Borel su This volume is recommended for independent study and is suitable for graduate students and researchers interested in symplectic geometry algebraic geometry and geometric combinatorics Information for our distributors Titles in this series are co published with the Centre de Recherches Mathematiques [Convexity Properties of Hamiltonian Group Actions](#) Victor Guillemin,Reyer Sjamaar,2005 This is a monograph on convexity properties of moment mappings in symplectic geometry The fundamental result in this subject is the Kirwan convexity theorem which describes the image of a moment map in terms of linear inequalities This theorem bears a close relationship to perplexing old puzzles from linear algebra such as the Horn problem on sums of Hermitian matrices on which considerable progress has been made in recent years following a breakthrough by Klyachko The book presents a simple local model for the moment polytope valid in the generic case and an elementary Morse theoretic argument deriving the Klyachko inequalities and some of their generalizations It reviews various infinite dimensional manifestations of moment convexity such as the Kostant type theorems for orbits of a loop group due to Atiyah and Pressley or a symplectomorphism group due to Bloch Flaschka and Ratiu Finally it gives an account of a new convexity theorem for moment map images of orbits of a Borel su This volume is recommended for independent study and is suitable for graduate students and researchers interested in symplectic geometry algebraic geometry and geometric combinatorics Information for our distributors Titles in this series are co published with the Centre de Recherches Mathematiques **Poisson Geometry in Mathematics and Physics** Giuseppe Dito,2008 This volume is a collection of articles by speakers at the Poisson 2006 conference The program for Poisson 2006 was an overlap of topics that included deformation quantization generalized complex structures differentiable stacks normal forms and group valued moment maps and reduction *Semitoric Families* Yohann Le Floch,Joseph Palmer,2024-12-13 View the abstract [Canadian Journal of Mathematics](#) ,1994 [From Topology to Computation: Proceedings of the Smalefest](#) Morris W. Hirsch,Jerrold E. Marsden,Michael Shub,2012-12-06 An extraordinary mathematical conference was held 5 9 August 1990 at the University of

California at Berkeley From Topology to Computation Unity and Diversity in the Mathematical Sciences An International Research Conference in Honor of Stephen Smale's 60th Birthday The topics of the conference were some of the fields in which Smale has worked Differential Topology Mathematical Economics Dynamical Systems Theory of Computation Nonlinear Functional Analysis Physical and Biological Applications This book comprises the proceedings of that conference The goal of the conference was to gather in a single meeting mathematicians working in the many fields to which Smale has made lasting contributions The theme Unity and Diversity is enlarged upon in the section entitled Research Themes and Conference Schedule The organizers hoped that illuminating connections between seemingly separate mathematical subjects would emerge from the conference Since such connections are not easily made in formal mathematical papers the conference included discussions after each of the historical reviews of Smale's work in different fields In addition there was a final panel discussion at the end of the conference

Pure and Applied Mathematics Quarterly, 2006 Symplectic Geometry and Topology Yakov Eliashberg, Lisa M. Traynor, 2004 Symplectic geometry has its origins as a geometric language for classical mechanics But it has recently exploded into an independent field interconnected with many other areas of mathematics and physics The goal of the IAS Park City Mathematics Institute Graduate Summer School on Symplectic Geometry and Topology was to give an intensive introduction to these exciting areas of current research Included in this proceedings are lecture notes from the following courses Introduction to Symplectic Topology by D McDuff Holomorphic Curves and Dynamics in Dimension Three by H Hofer An Introduction to the Seiberg Witten Equations on Symplectic Manifolds by C Taubes Lectures on Floer Homology by D Salamon A Tutorial on Quantum Cohomology by A Givental Euler Characteristics and Lagrangian Intersections by R MacPherson Hamiltonian Group Actions and Symplectic Reduction by L Jeffrey and Mechanics Symmetry and Dynamics by J Marsden Information for our distributors Titles in this series are copublished with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price

Toric Topology Megumi Harada, 2008 Toric topology is the study of algebraic differential symplectic geometric combinatorial and homotopy theoretic aspects of a particular class of torus actions whose quotients are highly structured The combinatorial properties of this quotient and the equivariant topology of the original manifold interact in a rich variety of ways thus illuminating subtle aspects of both the combinatorics and the equivariant topology Many of the motivations and guiding principles of the field are provided by though not limited to the theory of toric varieties in algebraic geometry as well as that of symplectic toric manifolds in symplectic geometry This volume is the proceedings of the International Conference on Toric Topology held in Osaka in May June 2006 It contains about 25 research and survey articles written by conference speakers covering many different aspects of and approaches to torus actions such as those mentioned above Some of the manuscripts are survey articles intended to give a broad overview of an aspect of the subject all manuscripts consciously aim to be

accessible to a broad reading audience of students and researchers interested in the interaction of the subjects involved We hope that this volume serves as an enticing invitation to this emerging field

Encyclopedia of Mathematical Physics Jean-Pierre Francoise, Gregory L. Naber, Sheung Tsun Tsou, 2006 The Encyclopedia of Mathematical Physics provides a complete resource for researchers students and lecturers with an interest in mathematical physics It enables readers to access basic information on topics peripheral to their own areas to provide a repository of the core information in the area that can be used to refresh the researcher's own memory banks and aid teachers in directing students to entries relevant to their course work The Encyclopedia does contain information that has been distilled organised and presented as a complete reference tool to the user and a landmark to the body of knowledge that has accumulated in this domain It also is a stimulus for new researchers working in mathematical physics or in areas using the methods originating from work in mathematical physics by providing them with focused high quality background information Editorial Board Jean Pierre Fran oise Universit Pierre et Marie Curie Paris France Gregory L Naber Drexel University Philadelphia PA USA Tsou Sheung Tsun University of Oxford UK Also available online via ScienceDirect 2006 featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy

Mathematical Reviews ,2007 *Report* ,1995 **Symplectic Torus Actions** Alvaro Pelayo,2007 *Journal of Differential Geometry* ,1984 *Annales scientifiques de l'École normale supérieure* Ecole normale supérieure (France),2006 **Annales Scientifiques de L'École Normale Supérieure** ,2006 *The British National Bibliography* Arthur James Wells,2006 *Bulletin (new Series) of the American Mathematical Society* ,1990 **Topological Methods in the Theory of Integrable Systems** Alekseï Viktorovich Bolsinov, A. T. Fomenko, Andreï Aleksandrovich Oshemkov,2006 This volume comprises selected papers on the subject of the topology of integrable systems theory which studies their qualitative properties singularities and topological invariants The aim of this volume is to develop the classification theory for integrable systems with two degrees of freedom which would allow for distinguishing such systems up to two natural equivalence relations The first one is the equivalence of the associated foliations into Liouville tori The second is the usual orbital equivalence Also general methods of classification theory are applied to the classical integrable problems in rigid body dynamics In addition integrable geodesic flows on two dimensional surfaces are analysed from the viewpoint of the topology of integrable systems

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