Felix Schlenk

Embedding Problems in Symplectic Geometry

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Embedding Problems in Symplectic Geometry Felix Schlenk,2008-08-22 Symplectic geometry is the geometry underlying Hamiltonian dynamics and symplectic mappings arise as time 1 maps of Hamiltonian flows The spectacular rigidity phenomena for symplectic mappings discovered in the last two decades show that certain things cannot be done by a symplectic mapping For instance Gromov s famous non squeezing theorem states that one cannot map a ball into a thinner cylinder by a symplectic embedding The aim of this book is to show that certain other things can be done by symplectic mappings This is achieved by various elementary and explicit symplectic embedding constructions such as folding wrapping and lifting These constructions are carried out in detail and are used to solve some specific symplectic embedding problems The exposition is self contained and addressed to students and researchers interested in geometry or dynamics **Lectures on Lagrangian Torus Fibrations** Jonny Evans,2023-07-20 Comprehensive and visual introduction to the geometry of 4 dimensional symplectic manifolds via 2 dimensional almost toric diagrams **Complex and Symplectic Geometry** Daniele Angella,Costantino Medori,Adriano Tomassini,2017-10-12 This book arises from the INdAM Meeting Complex and Symplectic Geometry which was held in Cortona in June 2016 Several leading specialists including young researchers in the field of complex and symplectic geometry present the state of the art of their research on topics such as the cohomology of complex manifolds analytic techniques in K hler and non K hler geometry almost complex and symplectic structures special structures on complex manifolds and deformations of complex objects The work is intended for researchers in these areas

Emergence Of The Quantum From The Classical: Mathematical Aspects Of Quantum Processes Maurice A De Gosson,2017-11-10 The emergence of quantum mechanics from classical world mechanics is now a well established theme in mathematical physics This book demonstrates that quantum mechanics can indeed be viewed as a refinement of Hamiltonian mechanics and builds on the work of George Mackey in relation to their mathematical foundations Additionally when looking at the differences with classical mechanics quantum mechanics crucially depends on the value of Planck s constant h Recent cosmological observations tend to indicate that not only the fine structure constant but also h might have varied in both time and space since the Big Bang We explore the mathematical and physical consequences of a variation of h surprisingly we see that a decrease of h leads to transitions from the quantum to the classical Emergence of the Quantum from the Classical provides help to undergraduate and graduate students of mathematics physics and quantum theory looking to advance into research in the field Dynamics, Ergodic Theory and Geometry Boris Hasselblatt,2007-09-24 Based on the subjects from the Clay Mathematics Institute Mathematical Sciences Research Institute Workshop titled Recent Progress in Dynamics in September and October 2004 this volume contains surveys and research articles by leading experts in several areas of dynamical systems that have experienced substantial progress One of the major surveys is on symplectic geometry which is closely related to classical mechanics and an exciting addition to modern geometry The survey on local rigidity of group

actions gives a broad and up to date account of another flourishing subject Other papers cover hyperbolic parabolic and symbolic dynamics as well as ergodic theory Students and researchers in dynamical systems geometry and related areas will find this book fascinating The book also includes a fifty page commented problem list that takes the reader beyond the areas covered by the surveys to inspire and guide further research **Topological Persistence in Geometry and Analysis** Leonid Polterovich,Daniel Rosen,Karina Samvelyan,Jun Zhang,2020-05-11 The theory of persistence modules originated in topological data analysis and became an active area of research in algebraic topology This book provides a concise and self contained introduction to persistence modules and focuses on their interactions with pure mathematics bringing the reader to the cutting edge of current research In particular the authors present applications of persistence to symplectic topology including the geometry of symplectomorphism groups and embedding problems Furthermore they discuss topological function theory which provides new insight into oscillation of functions The book is accessible to readers with a basic background in algebraic and differential topology *The Restricted Three-Body Problem and Holomorphic Curves* Urs Frauenfelder,Otto van Koert,2018-08-29 The book serves as an introduction to holomorphic curves in symplectic manifolds focusing on the case of four dimensional symplectizations and symplectic cobordisms and their applications to celestial mechanics The authors study the restricted three body problem using recent techniques coming from the theory of pseudo holomorphic curves The book starts with an introduction to relevant topics in symplectic topology and Hamiltonian dynamics before introducing some well known systems from celestial mechanics such as the Kepler problem and the restricted three body problem After an overview of different regularizations of these systems the book continues with a discussion of periodic orbits and global surfaces of section for these and more general systems The second half of the book is primarily dedicated to developing the theory of holomorphic curves specifically the theory of fast finite energy planes to elucidate the proofs of the existence results for global surfaces of section stated earlier The book closes with a chapter summarizing the results of some numerical experiments related to finding periodic orbits and global surfaces of sections in the restricted three body problem This book is also part of the Virtual Series on Symplectic Geometry http www springer com series 16019 **Interactions with Lattice Polytopes** Alexander M. Kasprzyk,Benjamin Nill,2022-06-08 This book collects together original research and survey articles highlighting the fertile interdisciplinary applications of convex lattice polytopes in modern mathematics Covering a diverse range of topics including algebraic geometry mirror symmetry symplectic geometry discrete geometry and algebraic combinatorics the common theme is the study of lattice polytopes These fascinating combinatorial objects are a cornerstone of toric geometry and continue to find rich and unforeseen applications throughout mathematics The workshop Interactions with Lattice Polytopes assembled many top researchers at the Otto von Guericke Universit t Magdeburg in 2017 to discuss the role of lattice polytopes in their work and many of their presented results are collected in this book Intended to be accessible these articles are suitable for researchers and graduate students interested in learning about some of the wide

ranging interactions of lattice polytopes in pure mathematics *Mathematical Reviews* ,2007 **What's Next?** Dylan Thurston,2020-07-07 William Thurston 1946 2012 was one of the great mathematicians of the twentieth century He was a visionary whose extraordinary ideas revolutionized a broad range of mathematical fields from foliations contact structures and Teichm ller theory to automorphisms of surfaces hyperbolic geometry geometrization of 3 manifolds geometric group theory and rational maps In addition he discovered connections between disciplines that led to astonishing breakthroughs in mathematical understanding as well as the creation of entirely new fields His far reaching questions and conjectures led to enormous progress by other researchers What s Next brings together many of today s leading mathematicians to describe recent advances and future directions inspired by Thurston s transformative ideas Including valuable insights from his colleagues and former students What s Next discusses Thurston s fundamental contributions to topology geometry and dynamical systems and includes many deep and original contributions to the field This incisive and wide ranging book also explores how he introduced new ways of thinking about and doing mathematics innovations that have had a profound and lasting impact on the mathematical community as a whole American Book Publishing Record ,2003 **Bollettino della Unione matematica italiana** ,2005 *Deutsche Nationalbibliografie* ,2005 **Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen** ,2005 **International Mathematical News** ,1992 Issues for Dec 1952 include section Nachrichten der sterreichischen Mathematischen Gesellschaft The Stefan Problem A.M. Meirmanov,2011-05-03 The aim of the series is to present new and important developments in pure and applied mathematics Well established in the community over two decades it offers a large library of mathematics including several important classics The volumes supply thorough and detailed expositions of the methods and ideas essential to the topics in question In addition they convey their relationships to other parts of mathematics The series is addressed to advanced readers wishing to thoroughly study the topic Editorial Board Lev Birbrair Universidade Federal do Cear Fortaleza Brasil Victor P Maslov Russian Academy of Sciences Moscow Russia Walter D Neumann Columbia University New York USA Markus J Pflaum University of Colorado Boulder USA Dierk Schleicher Jacobs University Bremen Germany

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