POTSDAM

Geometric Wave Equations

Winter Term 2015/16

$$\partial_t^2 u = \sum_{ij,g^{ij}} \partial_i \partial_j u + \sum_i \Delta_i \partial_{ii} + cu$$

$$\partial_t^2 u = \sum_{ij,g^{ij}} \partial_i \partial_j u \times \sum_i \Delta_i \partial_{ii} \times cu$$

$$\partial_t^2 u = \sum_{ij,g^{ij}} \partial_i \partial_j u \times \sum_i \Delta_i \partial_{ii} \times cu$$



Geometric Wave Equations

Nimit Rana

Geometric Wave Equations:

Geometric Wave Equations Jalal M. Ihsan Shatah, Michael Struwe, 2000 This volume contains notes of the lectures given at the Courant Institute and a DMV Seminar at Oberwolfach The focus is on the recent work of the authors on semilinear wave equations with critical Sobolev exponents and on wave maps in two space dimensions Background material and references have been added to make the notes self contained The book is suitable for use in a graduate level course on the topic Titles in this series are co published with the Courant Institute of Mathematical Sciences at New York University

A Few Problems on Stochastic Geometric Wave Equations Nimit Rana, 2019 **Geometric Wave Equations** [alal M. Ihsan Shatah, Michael Struwe, This volume contains notes of the lectures given at the Courant Institute and a DMV Seminar at Oberwolfach The focus is on the recent work of the authors on semilinear wave equations with critical Sobolev exponents and on wave maps in two space dimensions Background material and references have been added to make the notes self contained The book is suitable for use in a graduate level course on the topic Titles in this series are co published with the Courant Institute of Mathematical Sciences at New York University *Nonlinear Dispersive Equations* Terence Tao, 2006 Starting only with a basic knowledge of graduate real analysis and Fourier analysis the text first presents basic nonlinear tools such as the bootstrap method and perturbation theory in the simpler context of nonlinear ODE then introduces the harmonic analysis and geometric tools used to control linear dispersive PDE These methods are then combined to study four model nonlinear dispersive equations Through extensive exercises diagrams and informal discussion the book gives a rigorous theoretical treatment of the material the real world intuition and heuristics that underlie the subject as well as mentioning connections with other areas of PDE harmonic analysis and dynamical systems Introduction To The Theory Of Wave Maps And Related Geometric Problems Dan-andrei Geba, Manoussos G Grillakis, 2016-08-18 The wave maps system is one of the most beautiful and challenging nonlinear hyperbolic systems which has captured the attention of mathematicians for more than thirty years now In the study of its various issues such as the well posedness theory the formation of singularities and the stability of the solitons in order to obtain optimal results one has to use intricate tools coming not only from analysis but also from geometry and topology Moreover the wave maps system is nothing other than the Euler Lagrange system for the nonlinear sigma model which is one of the fundamental problems in classical field theory. One of the goals of our book is to give an up to date and almost self contained overview of the main regularity results proved for wave maps Another one is to introduce to a wide mathematical audience physically motivated generalizations of the wave maps system e g the Skyrme model which are extremely interesting and difficult in their own right Geometric Analysis of Hyperbolic Differential Equations: An Introduction S. Alinhac, 2010-05-20 Its self contained presentation and do it yourself approach make this the perfect guide for graduate students and researchers wishing to access recent literature in the field of nonlinear wave equations and general relativity. It introduces all of the key

tools and concepts from Lorentzian geometry metrics null frames deformation tensors etc and provides complete elementary proofs The author also discusses applications to topics in nonlinear equations including null conditions and stability of Minkowski space No previous knowledge of geometry or relativity is required Geometric Analysis and Integral Geometry Eric Todd Quinto, Fulton Gonzalez, Jens Gerlach Christensen, 2013 This volume contains the proceedings of the AMS Special Session on Radon Transforms and Geometric Analysis in honour of Sigurdur Helgason s 85th Birthday held from January 4.7 2012 in Boston MA and the Tufts University Workshop on Geometric Analysis on Euclidean and Homogeneous Spaces held from January 8 9 2012 in Medford MA This volume provides an historical overview of several decades in integral geometry and geometric analysis as well as recent advances in these fields and closely related areas It contains several articles focusing on the mathematical work of Sigurdur Helgason including an overview of his research by Gestur Olafsson and Robert Stanton The first article in the volume contains Helgason's own reminiscences about the development of the group theoretical aspects of the Radon transform and its relation to geometric analysis Other contributions cover Radon transforms harmonic analysis Penrose transforms representation theory wavelets partial differential operators on groups and inverse problems in tomography and cloaking that are related to integral geometry Many articles contain both an overview of their respective fields as well as new research results The volume will therefore appeal to experienced researchers as well as a younger generation of mathematicians With a good blend of pure and applied topics the volume will be a valuable source for interdisciplinary research <u>Invariant Manifolds and Dispersive Hamiltonian Evolution Equations</u> Kenji Nakanishi, Wilhelm Schlag, 2011 The notion of an invariant manifold arises naturally in the asymptotic stability analysis of stationary or standing wave solutions of unstable dispersive Hamiltonian evolution equations such as the focusing semilinear Klein Gordon and Schrodinger equations This is due to the fact that the linearized operators about such special solutions typically exhibit negative eigenvalues a single one for the ground state which lead to exponential instability of the linearized flow and allows for ideas from hyperbolic dynamics to enter One of the main results proved here for energy subcritical equations is that the center stable manifold associated with the ground state appears as a hyper surface which separates a region of finite time blowup in forward time from one which exhibits global existence and scattering to zero in forward time The authors entire analysis takes place in the energy topology and the conserved energy can exceed the ground state energy only by a small amount This monograph is based on recent research by the authors The proofs rely on an interplay between the variational structure of the ground states and the nonlinear hyperbolic dynamics near these states A key element in the proof is a virial type argument excluding almost homoclinic orbits originating near the ground states and returning to them possibly after a long excursion These lectures are suitable for graduate students and researchers in partial differential equations and mathematical physics For the cubic Klein Gordon equation in three dimensions all details are provided including the derivation of Strichartz estimates for the free equation and the concentration compactness argument leading to scattering

due to Kenig and Merle New Trends in Stochastic Analysis and Related Topics Huaizhong Zhao, Aubrey Truman, 2012 The volume is dedicated to Professor David Elworthy to celebrate his fundamental contribution and exceptional influence on stochastic analysis and related fields Stochastic analysis has been profoundly developed as a vital fundamental research area in mathematics in recent decades It has been discovered to have intrinsic connections with many other areas of mathematics such as partial differential equations functional analysis topology differential geometry dynamical systems etc Mathematicians developed many mathematical tools in stochastic analysis to understand and model random phenomena in physics biology finance fluid environment science etc This volume contains 12 comprehensive review new articles written by world leading researchers by invitation and their collaborators It covers stochastic analysis on manifolds rough paths Dirichlet forms stochastic partial differential equations stochastic dynamical systems infinite dimensional analysis stochastic flows quantum stochastic analysis and stochastic Hamilton Jacobi theory Articles contain cutting edge research methodology results and ideas in relevant fields They are of interest to research mathematicians and postgraduate students in stochastic analysis probability partial differential equations dynamical systems mathematical physics as well as to physicists financial mathematicians engineers etc Thirteenth Marcel Grossmann Meeting, The: On Recent Developments In Theoretical And Experimental General Relativity, Astrophysics And Relativistic Field Theories - Proceedings Of The Mq13 Meeting On General Relativity (In 3 Volumes) Remo Ruffini, Kjell Rosquist, Robert T Jantzen, 2015-01-26 The Marcel Grossmann Meetings seek to further the development of the foundations and applications of Einstein's general relativity by promoting theoretical understanding in the relevant fields of physics mathematics astronomy and astrophysics and to direct future technological observational and experimental efforts The meetings discuss recent developments in classical and quantum aspects of gravity and in cosmology and relativistic astrophysics with major emphasis on mathematical foundations and physical predictions having the main objective of gathering scientists from diverse backgrounds for deepening our understanding of spacetime structure and reviewing the current state of the art in the theory observations and experiments pertinent to relativistic gravitation. The range of topics is broad going from the more abstract classical theory quantum gravity branes and strings to more concrete relativistic astrophysics observations and modeling The three volumes of the proceedings of MG13 give a broad view of all aspects of gravitational physics and astrophysics from mathematical issues to recent observations and experiments The scientific program of the meeting included 33 morning plenary talks during 6 days and 75 parallel sessions over 4 afternoons Volume A contains plenary and review talks ranging from the mathematical foundations of classical and quantum gravitational theories including recent developments in string brane theories to precision tests of general relativity including progress towards the detection of gravitational waves and from supernova cosmology to relativistic astrophysics including such topics as gamma ray bursts black hole physics both in our galaxy and in active galactic nuclei in other galaxies and neutron star and pulsar astrophysics Volumes B and C include

parallel sessions which touch on dark matter neutrinos X ray sources astrophysical black holes neutron stars binary systems radiative transfer accretion disks quasors gamma ray bursts supernovas alternative gravitational theories perturbations of collapsed objects analog models black hole thermodynamics numerical relativity gravitational lensing large scale structure observational cosmology early universe models and cosmic microwave background anisotropies inhomogeneous cosmology inflation global structure singularities chaos Einstein Maxwell systems wormholes exact solutions of Einstein's equations gravitational waves gravitational wave detectors and data analysis precision gravitational measurements quantum gravity and loop quantum gravity quantum cosmology strings and branes self gravitating systems gamma ray astronomy and cosmic rays and the history of general relativity **Mathematics of Complexity and Dynamical Systems** Robert A. Meyers, 2011-10-05 Mathematics of Complexity and Dynamical Systems is an authoritative reference to the basic tools and concepts of complexity systems theory and dynamical systems from the perspective of pure and applied mathematics Complex systems are systems that comprise many interacting parts with the ability to generate a new quality of collective behavior through self organization e g the spontaneous formation of temporal spatial or functional structures These systems are often characterized by extreme sensitivity to initial conditions as well as emergent behavior that are not readily predictable or even completely deterministic The more than 100 entries in this wide ranging single source work provide a comprehensive explication of the theory and applications of mathematical complexity covering ergodic theory fractals and multifractals dynamical systems perturbation theory solitons systems and control theory and related topics Mathematics of Complexity and Dynamical Systems is an essential reference for all those interested in mathematical complexity from undergraduate and graduate students up through professional researchers **Differential Geometric Methods in** Mathematical Physics H.-D. Doebner, S. I. Andersson, H. R. Petry, 2006-11-14 Geometric Mechanics - Part I: Dynamics And Symmetry (2nd Edition) Darryl D Holm, 2011-07-13 See also GEOMETRIC MECHANICS Part II Rotating Translating and Rolling 2nd Edition This textbook introduces the tools and language of modern geometric mechanics to advanced undergraduates and beginning graduate students in mathematics physics and engineering It treats the fundamental problems of dynamical systems from the viewpoint of Lie group symmetry in variational principles The only prerequisites are linear algebra calculus and some familiarity with Hamilton's principle and canonical Poisson brackets in classical mechanics at the beginning undergraduate level The ideas and concepts of geometric mechanics are explained in the context of explicit examples Through these examples the student develops skills in performing computational manipulations starting from Fermat's principle working through the theory of differential forms on manifolds and transferring these ideas to the applications of reduction by symmetry to reveal Lie Poisson Hamiltonian formulations and momentum maps in physical applications The many Exercises and Worked Answers in the text enable the student to grasp the essential aspects of the subject In addition the modern language and application of differential forms is explained in the context of geometric

mechanics so that the importance of Lie derivatives and their flows is clear All theorems are stated and proved explicitly The organisation of the first edition has been preserved in the second edition However the substance of the text has been rewritten throughout to improve the flow and to enrich the development of the material In particular the role of Noether's theorem about the implications of Lie group symmetries for conservation laws of dynamical systems has been emphasised throughout with many applications a Integral Geometry and Inverse Problems for Hyperbolic Equations V. G. Romanov, 2013-04-09 There are currently many practical situations in which one wishes to determine the coefficients in an ordinary or partial differential equation from known functionals of its solution These are often called inverse problems of mathematical physics and may be contrasted with problems in which an equation is given and one looks for its solution under initial and boundary conditions Although inverse problems are often ill posed in the classical sense their practical importance is such that they may be considered among the pressing problems of current mathematical re search A N Tihonov showed 82 83 that there is a broad class of inverse problems for which a particular non classical definition of well posed ness is appropriate This new definition requires that a solution be unique in a class of solutions belonging to a given subset M of a function space The existence of a solution in this set is assumed a priori for some set of data The classical requirement of continuous dependence of the solution on the data is retained but it is interpreted differently It is required that solutions depend continuously only on that data which does not take the solutions out of M Mathematics Unlimited - 2001 and Beyond Björn Engquist, Wilfried Schmid, 2017-04-05 This is a book guaranteed to delight the reader It not only depicts the state of mathematics at the end of the century but is also full of remarkable insights into its future de velopment as we enter a new millennium True to its title the book extends beyond the spectrum of mathematics to in clude contributions from other related sciences You will enjoy reading the many stimulating contributions and gain insights into the astounding progress of mathematics and the perspectives for its future One of the editors Bj rn Eng quist is a world renowned researcher in computational sci ence and engineering The second editor Wilfried Schmid is a distinguished mathematician at Harvard University Likewi se the authors are all foremost mathematicians and scien tists and their biographies and photographs appear at the end of the book Unique in both form and content this is a must read for every mathematician and scientist and in particular for graduates still choosing their specialty **Nonlinear Partial Differential Equations** Luis A. Caffarelli, François Golse, Yan Guo, Carlos E. Kenig, Alexis Vasseur, 2012-02-02 The book covers several topics of current interest in the field of nonlinear partial differential equations and their applications to the physics of continuous media and particle interactions It treats the quasigeostrophic equation integral diffusions periodic Lorentz gas Boltzmann equation and critical dispersive nonlinear Schr dinger and wave equations The book describes in a careful and expository manner several Geometric Methods in Inverse Problems and PDE Control Chrisopher powerful methods from recent top research articles B. Croke, Gunther Uhlmann, Irena Lasiecka, Michael Vogelius, 2012-12-06 This IMA Volume in Mathematics and its

Applications GEOMETRIC METHODS IN INVERSE PROBLEMS AND PDE CONTROL contains a selection of articles presented at 2001 IMA Summer Program with the same title We would like to thank Christopher B Croke University of Penn sylva nia Irena Lasiecka University of Virginia Gunther Uhlmann University of Washington and Michael S Vogelius Rutgers University for their ex cellent work as organizers of the two week summer workshop and for editing the volume We also take this opportunity to thank the National Science Foundation for their support of the IMA Series Editors Douglas N Arnold Director of the IMA Fadil Santosa Deputy Director of the IMA v PREFACE This volume contains a selected number of articles based on lectures delivered at the IMA 2001 Summer Program on Geometric Methods in Inverse Problems and PDE Control The focus of this program was some common techniques used in the study of inverse coefficient problems and control problems for partial differential equations with particular emphasis on their strong relation to fundamental problems of geometry Inverse coef ficient problems for partial differential equations arise in many application areas for instance in medical imaging nondestructive testing and geophys ical prospecting Control problems involving partial differential equations may arise from the need to optimize a given performance criterion e g to dampen out undesirable vibrations of a structure or more generally to obtain a prescribed behaviour of the dynamics Stochastic Analysis: A Series of Lectures Robert C. Dalang, Marco Dozzi, Franco Flandoli, Francesco Russo, 2015-07-28 This book presents in thirteen refereed survey articles an overview of modern activity in stochastic analysis written by leading international experts The topics addressed include stochastic fluid dynamics and regularization by noise of deterministic dynamical systems stochastic partial differential equations driven by Gaussian or L vy noise including the relationship between parabolic equations and particle systems and wave equations in a geometric framework Malliavin calculus and applications to stochastic numerics stochastic integration in Banach spaces porous media type equations stochastic deformations of classical mechanics and Feynman integrals and stochastic differential equations with reflection The articles are based on short courses given at the Centre Interfacultaire Bernoulli of the Ecole Polytechnique F d rale de Lausanne Switzerland from January to June 2012 They offer a valuable resource not only for specialists but also for other researchers and Ph D students in the fields of stochastic analysis and mathematical physics Contributors S Albeverio M Arnaudon V Bally V Barbu H Bessaih Z Brze niak K Burdzy A B Cruzeiro F Flandoli A Kohatsu Higa S Mazzucchi C Mueller J van Neerven M Ondrej t S Peszat M Veraar L Weis J C Zambrini

Advances in Analysis Charles Fefferman, Alexandru D. Ionescu, D.H. Phong, Stephen Wainger, 2014-01-05 Princeton University s Elias Stein was the first mathematician to see the profound interconnections that tie classical Fourier analysis to several complex variables and representation theory His fundamental contributions include the Kunze Stein phenomenon the construction of new representations the Stein interpolation theorem the idea of a restriction theorem for the Fourier transform and the theory of Hp Spaces in several variables Through his great discoveries through books that have set the highest standard for mathematical exposition and through his influence on his many collaborators and students Stein has

changed mathematics Drawing inspiration from Stein's contributions to harmonic analysis and related topics this volume gathers papers from internationally renowned mathematicians many of whom have been Stein's students The book also includes expository papers on Stein's work and its influence The contributors are Jean Bourgain Luis Caffarelli Michael Christ Guy David Charles Fefferman Alexandru D Ionescu David Jerison Carlos Kenig Sergiu Klainerman Loredana Lanzani Sanghyuk Lee Lionel Levine Akos Magyar Detlef M ller Camil Muscalu Alexander Nagel D H Phong Malabika Pramanik Andrew S Raich Fulvio Ricci Keith M Rogers Andreas Seeger Scott Sheffield Luis Silvestre Christopher D Sogge Jacob Sturm Terence Tao Christoph Thiele Stephen Wainger and Steven Zelditch **Handbook of Variational Methods for Nonlinear** Geometric Data Philipp Grohs, Martin Holler, Andreas Weinmann, 2020-04-03 This book covers different current research directions in the context of variational methods for non linear geometric data Each chapter is authored by leading experts in the respective discipline and provides an introduction an overview and a description of the current state of the art Non linear geometric data arises in various applications in science and engineering Examples of nonlinear data spaces are diverse and include for instance nonlinear spaces of matrices spaces of curves shapes as well as manifolds of probability measures Applications can be found in biology medicine product engineering geography and computer vision for instance Variational methods on the other hand have evolved to being amongst the most powerful tools for applied mathematics. They involve techniques from various branches of mathematics such as statistics modeling optimization numerical mathematics and analysis The vast majority of research on variational methods however is focused on data in linear spaces Variational methods for non linear data is currently an emerging research topic As a result and since such methods involve various branches of mathematics there is a plethora of different recent approaches dealing with different aspects of variational methods for nonlinear geometric data Research results are rather scattered and appear in journals of different mathematical communities The main purpose of the book is to account for that by providing for the first time a comprehensive collection of different research directions and existing approaches in this context It is organized in a way that leading researchers from the different fields provide an introductory overview of recent research directions in their respective discipline As such the book is a unique reference work for both newcomers in the field of variational methods for non linear geometric data as well as for established experts that aim at to exploit new research directions or collaborations Chapter 9 of this book is available open access under a CC BY 4 0 license at link springer com

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