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Geometric Wave Equations

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Geometric Wave Equations

Jalal M. Ihsan Shatah, Michael Struwe



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Geometric Wave Equations Jalal 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

A Few Problems on Stochastic Geometric Wave Equations Nimit Rana, 2019

An 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

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

Well-posedness for the Space-time Monopole Equation and Ward Wave Map Magdalena Czubak, 2008 We study local well posedness of the Cauchy problem for two geometric wave equations that can be derived from Anti Self Dual Yang Mills equations on $\mathbb{R}^{2,2}$ These are the space time Monopole Equation and the Ward Wave Map The equations can be formulated in different ways For the formulations we use we establish local

well posedness results which are sharp using the iteration methods

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

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 Levy 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

Mathematics of Gravitation: Lorentzian geometry and Einstein equations, 1997 *Geometric Carleman Estimates for Wave Equations and Its Applications in Control Theory* Vaibhav Kumar Jena, 2022

Geometric Methods for Some Nonlinear Wave Equations Jonatan Lenells, 2006 **Interdisciplinary Mathematics: Cartanian geometry, nonlinear waves, and control theory, pt. A-B** Robert Hermann, 1973 *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

Surveys in Differential Geometry Shing-Tung Yau, 2003 *Selected Papers from the Miami Waves Conference on Nonlinear Wave Equations, Geometric Analysis and General Relativity* L. Andersson, G. Galloway, S. Klainerman, Miami Waves Conference on Nonlinear Wave Equations, Geometric Analysis and General Relativity, 2005 *Bibliography of Scientific and Industrial Reports*, 1965-07 **U.S. Government Research & Development Reports**, 1965 **Acoustics in the**

Geometric Optics Approximation Judith Anne Hughes Wilkinson, 1968 **Lie Groups, Geometric Structures and Differential Equations** Tohru Morimoto, Hajime Satō, Keizo Yamaguchi, 2002 The blending of algebra geometry and differential equations has a long and distinguished history dating back to the work of Sophus Lie and Elie Cartan

Overviewing the depth of their influence over the past 100 years presents a formidable challenge A conference was held on the centennial of Lie's death to reflect upon and celebrate his pursuits later developments and what the future may hold This volume showcases the contents atmosphere and results of that conference Of particular importance are two survey articles Morimoto develops a synthetic study of Lie groups geometric structures and differential equations from a unified viewpoint of nilpotent geometry Yamaguchi and Yatsui discuss the geometry of higher order differential equations of finite type Contributed research articles cover a wide range of disciplines from geometry of differential equations CR geometry and differential geometry to topics in mathematical physics This volume is intended for graduate students studying differential geometry and analysis and advanced graduate students and researchers interested in an overview of the most recent progress in these fields Information for our distributors Published for the Mathematical Society of Japan by Kinokuniya Tokyo and distributed worldwide except in Japan by the AMS All commercial channel discounts apply **Interdisciplinary**

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