THE CAUCHY PROBLEM FOR OPERATORS WITH TRIPLE EFFECTIVELY HYPERBOLIC CHARACTERISTICS: IVRII'S CONJECTURE

By

TATSUO NISHITANI

Abstract. Ivrii's conjecture asserts that the Cauchy problem is C^∞ well-posed for any lower order term if every singular point of the characteristic variety is effectively hyperbolic. An effectively hyperbolic singular point is at most a triple characteristic. If every characteristic is at most double, this conjecture has been proved in the 1980's. In this paper we prove the conjecture for the remaining cases, that is for operators with triple effectively hyperbolic characteristics.

1 Introduction

This paper is devoted to the Cauchy problem

$$\begin{cases} Pu = D_t^m u + \sum_{j=0}^{m-1} \sum_{|\alpha|+j\le m} a_{j,\alpha}(t,x) D_x^\alpha D_t^j u = 0, \\ D_t^j u(0,x) = u_j(x), \quad j = 0, \dots, m-1, \end{cases} \tag{1.1}$$

where $t \ge 0$, $x \in \mathbb{R}^d$ and the coefficients $a_{j,\alpha}(t,x)$ are C^∞ functions in a neighborhood of the origin of $\mathbb{R}^{1+d}$ and $D_x = (D_{x_1}, \dots, D_{x_d}) = D$, $D_{x_j} = (1/i)(\partial/\partial x_j)$ and $D_t = (1/i)(\partial/\partial t)$. The Cauchy problem (1.1) is C^∞ well-posed at the origin for $t \ge 0$ if one can find a $\delta > 0$ and a neighborhood U of the origin of $\mathbb{R}^d$ such that (1.1) has a unique solution $u \in C^\infty([0,\delta) \times U)$ for any $u_j(x) \in C^\infty(\mathbb{R}^d)$. We assume that the principal symbol of P

$$p(t,x,\tau,\xi) = \tau^m + \sum_{j=0}^{m-1} \sum_{|\alpha|+j=m} a_{j,\alpha}(t,x)\xi^\alpha \tau^j$$

is hyperbolic for $t \ge 0$, that is there exist $\delta' > 0$ and a neighborhood U' of the origin such that

$$p = 0 \text{ has only real roots in } \tau \text{ for } (t,x) \in [0,\delta') \times U' \text{ and } \xi \in \mathbb{R}^d \tag{1.2}$$

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Cauchy Problem For Hyperbolic Operators Multiple Characteristics Microlocal Approach

Luigi Rodino,Bert-Wolfgang Schulze,Man Wah Wong

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The Cauchy Problem for Hyperbolic Operators Karen Yagdjian,1997 **Hyperbolic Differential Operators And Related Problems** Vincenzo Ancona,Jean Vaillant,2003-03-06 Presenting research from more than 30 international authorities this reference provides a complete arsenal of tools and theorems to analyze systems of hyperbolic partial differential equations The authors investigate a wide variety of problems in areas such as thermodynamics electromagnetics fluid dynamics differential geometry and topology Renewing thought in the field of mathematical physics Hyperbolic Differential Operators defines the notion of pseudosymmetry for matrix symbols of order zero as well as the notion of time function Surpassing previously published material on the topic this text is key for researchers and mathematicians specializing in hyperbolic Schr dinger Einstein and partial differential equations complex analysis and mathematical physics

Methods for Partial Differential Equations Marcelo R. Ebert,Michael Reissig,2018-02-23 This book provides an overview of different topics related to the theory of partial differential equations Selected exercises are included at the end of each chapter to prepare readers for the research project for beginners proposed at the end of the book It is a valuable resource for advanced graduates and undergraduate students who are interested in specializing in this area The book is organized in five parts In Part 1 the authors review the basics and the mathematical prerequisites presenting two of the most fundamental results in the theory of partial differential equations the Cauchy Kovalevskaja theorem and Holmgren s uniqueness theorem in its classical and abstract form It also introduces the method of characteristics in detail and applies this method to the study of Burger s equation Part 2 focuses on qualitative properties of solutions to basic partial differential equations explaining the usual properties of solutions to elliptic parabolic and hyperbolic equations for the archetypes Laplace equation heat equation and wave equation as well as the different features of each theory It also discusses the notion of energy of solutions a highly effective tool for the treatment of non stationary or evolution models and shows how to define energies for different models Part 3 demonstrates how phase space analysis and interpolation techniques are used to prove decay estimates for solutions on and away from the conjugate line It also examines how terms of lower order mass or dissipation or additional regularity of the data may influence expected results Part 4 addresses semilinear models with power type non linearity of source and absorbing type in order to determine critical exponents two well known critical exponents the Fujita exponent and the Strauss exponent come into play Depending on concrete models these critical exponents divide the range of admissible powers in classes which make it possible to prove quite different qualitative properties of solutions for example the stability of the zero solution or blow up behavior of local in time solutions The last part features selected research projects and general background material **Mathematical Analysis, Probability and Applications – Plenary Lectures** Tao Qian,Luigi G. Rodino,2016-08-25 This book collects lectures given by the plenary speakers at the 10th International ISAAC Congress held in Macau China in 2015 The contributions authored by eminent specialists present some of the most

exciting recent developments in mathematical analysis probability theory and related applications Topics include partial differential equations in mathematical physics Fourier analysis probability and Brownian motion numerical analysis and reproducing kernels The volume also presents a lecture on the visual exploration of complex functions using the domain coloring technique Thanks to the accessible style used readers only need a basic command of calculus *Recent Advances in Operator Theory and Its Applications* Marinus A. Kaashoek,Sebastiano Seatzu,Cornelis van der Mee,2006-01-17 This book contains a selection of carefully refereed research papers most of which were presented at the fourteenth International Workshop on Operator Theory and its Applications IWOTA held at Cagliari Italy from June 24 27 2003 The papers many of which have been written by leading experts in the field concern a wide variety of topics in modern operator theory and applications with emphasis on differential operators and numerical methods The book will be of interest to a wide audience of pure and applied mathematicians and engineers *General Theory of Partial Differential Equations and Microlocal Analysis* Min-You Qi,L Rodino,1996-05-20 **Hyperbolic Problems and Related Topics** Ferruccio Colombini,Tatsuo Nishitani,2003 **Journal of the Mathematical Society of Japan** Nihon Sūgakkai,2008 **Evolution Equations** Rainer H. Picard,Michael Reissig,Wojciech M. Zajączkowski,2003 **Pseudo-Differential Operators: Partial Differential Equations and Time-Frequency Analysis** Luigi Rodino,Bert-Wolfgang Schulze,Man Wah Wong,2007 This volume is based on lectures given at the workshop on pseudo differential operators held at the Fields Institute from December 11 2006 to December 15 2006 The two main themes of the workshop and hence this volume are partial differential equations and time frequency analysis The contents of this volume consist of five mini courses for graduate students and post docs and fifteen papers on related topics Of particular interest in this volume are the mathematical underpinnings applications and ramifications of the relatively new Stockwell transform which is a hybrid of the Gabor transform and the wavelet transform The twenty papers in this volume reflect modern trends in the development of pseudo differential operators Mathematische Nachrichten ,1999 **Evolution Equations** Bogdan Bojarski,Dariusz Wrzosek,Wojciech M. Zajączkowski,2000 **Journal of mathematics of Kyoto University** Kyōto Daigaku,1961 *Mathematical Reviews* ,2001 **Hyperbolic Equations and Related Topics** Shigeru Mizohata,1986 *Reviews in Partial Differential Equations, 1980-86, as Printed in Mathematical Reviews* ,1988 **Rendiconti del Seminario matematico della Università di Padova** Università di Padova. Seminario matematico,1990 **Partial Differential Equations with Multiple Characteristics** Maria Mascarello,Luigi Rodino,1997-11-03 This book is devoted to the general theory of partial differential equations with multiple characteristics The methods of the microlocal analysis are reviewed and used to prove recent results on local solvability hypoellipticity propagation of singularities in the frame of Sobolev spaces Schwartz distributions and Gevrey ultradistributions The Cauchy problem is also considered **Recent Developments in Hyperbolic Equations** Lamberto Cattabriga,1988 **Cumulated Index to the Books** ,1999

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