

SEMINAR ON MICRO-LOCAL ANALYSIS

BY

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AND TAKAHIRO KAWAI**

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Seminar on Micro-local Analysis Victor Guillemin, Masaki Kashiwara, Takahiro Kawai, 1979-11-21 Based on a seminar sponsored by the Institute for Advanced Study in 1977 1978 this set of papers introduces micro local analysis concisely and clearly to mathematicians with an analytical background The papers treat the theory of microfunctions and applications such as boundary values of elliptic partial differential equations propagation of singularities in the vicinity of degenerate characteristics holonomic systems Feynman integrals from the hyperfunction point of view and harmonic analysis on Lie groups

Seminar on Micro-Local Analysis Victor Guillemin, Masaki Kashiwara, Takahiro Kawai, 2016-03-02 Based on a seminar sponsored by the Institute for Advanced Study in 1977 1978 this set of papers introduces micro local analysis concisely and clearly to mathematicians with an analytical background The papers treat the theory of microfunctions and applications such as boundary values of elliptic partial differential equations propagation of singularities in the vicinity of degenerate characteristics holonomic systems Feynman integrals from the hyperfunction point of view and harmonic analysis on Lie groups

New Trends in Microlocal Analysis J.-M. Bony, M. Morimoto, 2012-12-06 Microlocal analysis began around 1970 when Mikio Sato along with coauthors Masaki Kashiwara and Takahiro Kawai wrote a decisive article on the structure of pseudodifferential equations thus laying the foundation of D modules and the singular spectrums of hyperfunctions The key idea is the analysis of problems on the phase space i e the cotangent bundle of the base space Microlocal analysis is an active area of mathematical research that has been applied to many fields such as real and complex analysis representation theory topology number theory and mathematical physics This volume contains the presentations given at a seminar jointly organized by the Japan Society for the Promotion of Science and Centre National des Recherches Scientifiques entitled New Trends in Microlocal Analysis The book is divided into three parts partial differential equations and mathematical analysis mathematical physics and algebraic analysis D modules and sheave theory The large variety of new research that is covered will prove invaluable to students and researchers alike

Microlocal Analysis and Applications Lamberto Cattabriga, Luigi Rodino, 2006-11-14 CONTENTS J M Bony Analyse microlocale des equations aux derivees partielles non lineaires G G Grubb Parabolic pseudo differential boundary problems and applications L H rmander Quadratic hyperbolic operators H Komatsu Microlocal analysis in Gevrey classes and in complex domains J Sj strand Microlocal analysis for the periodic magnetic Schr dinger equation and related questions

Fundamentals of Algebraic Microlocal Analysis Goro Kato, Daniele C Struppa, 2020-08-11 Provides a thorough introduction to the algebraic theory of systems of differential equations as developed by the Japanese school of M Sato and his colleagues Features a complete review of hyperfunction microfunction theory and the theory of D modules Strikes the perfect balance between analytic and algebraic aspects

Microlocal Analysis M. Salah Baouendi, 1984 This volume is the proceedings of the AMS IMS SIAM Joint Summer Research Conference on Microlocal Analysis and its Applications to Partial Differential Equations held July 10 16 1983 in

Boulder Colorado It contains refereed articles which were delivered at the conference Two of the papers are survey articles one on uniqueness and non uniqueness in the Cauchy problem and one on hypoanalytic structures the rest are either detailed announcements or complete papers covering such areas as spectrum of operators nonlinear problems asymptotics pseudodifferential operators of multiple characteristics and operators on groups and homogeneous spaces The volume should be useful to active mathematicians and graduate students working on linear and nonlinear partial differential equations and related areas *General Theory of Partial Differential Equations and Microlocal Analysis* Min-You Qi, L. Rodino, 1996-05-20

Microlocal Analysis and Inverse Problems in Tomography and Geometry Eric Todd Quinto, Plamen D. Stefanov, Gunther Uhlmann, 2024-09-23 Microlocal Analysis has proven to be a powerful tool for analyzing and solving inverse problems including answering questions about stability uniqueness recovery of singularities etc This volume presents several studies on microlocal methods in problems in tomography integral geometry geodesic transforms travel time tomography thermoacoustic tomography Compton CT cosmology nonlinear inverse problems and others **Nonlinear Theory of Generalized Functions** Michael Oberguggenberger, Michael Grosser, Michael Kunzinger, Gunther Hormann, 1999-03-16 Questions regarding the interplay of nonlinearity and the creation and propagation of singularities arise in a variety of fields including nonlinear partial differential equations noise driven stochastic partial differential equations general relativity and geometry with singularities A workshop held at the Erwin Schrödinger International Institute for Mathematical Physics in Vienna investigated these questions and culminated in this volume of invited papers from experts in the fields of nonlinear partial differential equations structure theory of generalized functions geometry and general relativity stochastic partial differential equations and nonstandard analysis The authors provide the latest research relevant to work in partial differential equations mathematical physics and nonlinear analysis With a focus on applications this book provides a compilation of recent approaches to the problem of singularities in nonlinear models The theory of differential algebras of generalized functions serves as the central theme of the project along with its interrelations with classical methods

Microlocal Analysis and Complex Fourier Analysis Keiko Fujita, Takahiro Kawai, 2002 This book is a collection of original papers on microlocal analysis Fourier analysis in the complex domain generalized functions and related topics Most of the papers originate from the talks given at the conference OC Prospects of Generalized Functions OCO in November 2001 at RIMS Kyoto Reflecting the fact that the papers except M Morimoto's one are dedicated to Mitsuo Morimoto the subjects considered in this book are interdisciplinary just as Morimoto's works are The historical backgrounds of the subjects are also discussed in depth in some contributions Thus this book should be valuable not only to the specialists in the fields but also to those who are interested in the history of modern mathematics such as distributions and hyperfunctions Encyclopedic Dictionary of Mathematics Nihon Sūgakkai, 1993 V 1 A N v 2 O Z Appendices and indexes Mathematical Reviews, 2005

Algebraic Analysis of Differential Equations T. Aoki, H. Majima, Y. Takei, N. Tose, 2009-03-15 This volume contains 23

articles on algebraic analysis of differential equations and related topics most of which were presented as papers at the conference Algebraic Analysis of Differential Equations from Microlocal Analysis to Exponential Asymptotics at Kyoto University in 2005 This volume is dedicated to Professor Takahiro Kawai who is one of the creators of microlocal analysis and who introduced the technique of microlocal analysis into exponential asymptotics

Classical Microlocal Analysis in the Space of Hyperfunctions Seiichiro Wakabayashi, 2007-05-06 The book develops Classical Microlocal Analysis in the spaces of hyperfunctions and microfunctions which makes it possible to apply the methods in the distribution category to the studies on partial differential equations in the hyperfunction category Here Classical Microlocal Analysis means that it does not use Algebraic Analysis The main tool in the text is in some sense integration by parts The studies on microlocal uniqueness analytic hypoellipticity and local solvability are reduced to the problems to derive energy estimates or a priori estimates The author assumes basic understanding of theory of pseudodifferential operators in the distribution category

Reviews in Global Analysis, 1980-86 as Printed in Mathematical Reviews, 1988

Microlocal Analysis and Spectral Theory Luigi Rodino, 2012-12-06 The NATO Advanced Study Institute Microlocal Analysis and Spectral Theory was held in Tuscany Italy at Castelveccchio Pascoli in the district of Lucca hosted by the international vacation center 11 Ciocco from September 23 to October 3 1996 The Institute recorded the considerable progress realized recently in the field of Microlocal Analysis In a broad sense Microlocal Analysis is the modern version of the classical Fourier technique in solving partial differential equations where now the localization proceeding takes place with respect to the dual variables too Precisely through the tools of pseudo differential operators wave front sets and Fourier integral operators the general theory of the linear partial differential equations is now reaching a mature form in the frame of Schwartz distributions or other generalized functions At the same time Microlocal Analysis has grown up into a definite and independent part of Mathematical Analysis with other applications all around Mathematics and Physics one major theme being Spectral Theory for Schrodinger equation in Quantum Mechanics

Advances in Microlocal Analysis H.G. Garnir, 2012-12-06 The 1985 Castelvecchio Pascoli NATO Advanced Study Institute is aimed to complete the trilogy with the two former institutes I organized Boundary Value Problem for Evolution Partial Differential Operators Liege 1976 and Singularities in Boundary Value Problems Maratea 1980 It was indeed necessary to record the considerable progress realized in the field of the propagation of singularities of Schwartz Distributions which led recently to the birth of a new branch of Mathematical Analysis called Microlocal Analysis Most of this theory was mainly built to be applied to distribution solutions of linear partial differential problems A large part of this institute still went in this direction But on the other hand it was also time to explore the new trend to use microlocal analysis in non linear differential problems I hope that the Castelvecchio NATO ASI reached its purposes with the help of the more famous authorities in the field The meeting was held in Tuscany Italy at Castelvecchio Pascoli little village in the mountains north of Lucca on September 2 12 1985 It was hosted by 11 Ciocco an international vacation Center In a comfortable hotel

located in magnificent mountain surroundings and provided with all conference and sport facilities

Microlocal Methods in Mathematical Physics and Global Analysis Daniel Grieser, Stefan Teufel, Andras Vasy, 2012-12-13 Microlocal analysis is a field of mathematics that was invented in the mid 20th century for the detailed investigation of problems from partial differential equations which incorporated and made rigorous many ideas that originated in physics Since then it has grown to a powerful machine which is used in global analysis spectral theory mathematical physics and other fields and its further development is a lively area of current mathematical research In this book extended abstracts of the conference Microlocal Methods in Mathematical Physics and Global Analysis which was held at the University of Tbingen from the 14th to the 18th of June 2011 are collected

Microlocal Analysis, Sharp Spectral Asymptotics and Applications IV Victor Ivrii, 2019-09-11 The prime goal of this monograph which comprises a total of five volumes is to derive sharp spectral asymptotics for broad classes of partial differential operators using techniques from semiclassical microlocal analysis in particular propagation of singularities and to subsequently use the variational estimates in small domains to consider domains with singularities of different kinds In turn the general theory results and methods developed is applied to the Magnetic Schrödinger operator miscellaneous problems and multiparticle quantum theory In this volume the methods developed in Volumes I II and III are applied to the Schrödinger and Dirac operators in non smooth settings and in higher dimensions

Singularities of integrals Frédéric Pham, 2011-04-22 Bringing together two fundamental texts from Frédéric Pham's research on singular integrals the first part of this book focuses on topological and geometrical aspects while the second explains the analytic approach Using notions developed by J Leray in the calculus of residues in several variables and R Thom's isotopy theorems Frédéric Pham's foundational study of the singularities of integrals lies at the interface between analysis and algebraic geometry culminating in the Picard Lefschetz formulae These mathematical structures enriched by the work of Nilsson are then approached using methods from the theory of differential equations and generalized from the point of view of hyperfunction theory and microlocal analysis Providing a must have introduction to the singularities of integrals a number of supplementary references also offer a convenient guide to the subjects covered This book will appeal to both mathematicians and physicists with an interest in the area of singularities of integrals Frédéric Pham now retired was Professor at the University of Nice He has published several educational and research texts His recent work concerns semiclassical analysis and resurgent functions

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