

数理解析研究所講究録 757

# 微分方程式の超局所解析

京都大学数理解析研究所

1991年6月

RIMS *Kokyuroku* 757

Microlocal Analysis of Differential Equations

June, 1991

Research Institute for Mathematical Sciences

Kyoto University, Kyoto, Japan

微分方程式の超局所解析  
研究集会報告集

1988年 9月27日～ 9月30日

研究代表者 小松 彦三郎(Hikosaburo Komatsu)

目 次

1. D-Module Structures in Multi-Dimensional Nonlinear Integrable Systems-----	1
京大・数理研            高崎 金久(Kanehisa Takasaki)	
2. ON A CLASS OF SINGULAR DIFFERENTIAL OPERATORS-----	23
上智大・理工            田原 秀敏(Hidetoshi Tahara)	
3. PROPAGATION OF ANALYTIC SINGULARITIES UP TO NON SMOOTH BOUNDARIES-----	26
Univ. Paris Nord        Pierre Schapira	
4. PSEUDODIFFERENTIAL OPERATORS WITH ANALYTIC SYMBOLS AND THEIR APPLICATIONS-----	35
Inst.of Math. Hanoi      Tran Duc Van	
5. The asymptotic behaviour of singular solutions to the solutions of linear partial differential equations in the complex domain-----	67
上智大・理工            大内 忠(Sunao Ouchi)	
6. Propagation of singularities of solutions for a degenerate hyperbolic equation-----	71
大阪府立大            谷口 和夫(Kazuo Taniguchi)	
7. Remarks on propagation of singularities-----	82
筑波大・数学系          梶谷 邦彦(Kunihiko Kajitani)	
筑波大・数学系          若林 誠一郎(Seiichiro Wakabayashi)	
8. Levi problem for local cohomology classes and Bochner-Martinelli form associated to a supporting subvariety-----	93
新潟大・教養            田島 慎一(Shinichi Tajima)	
9. 角により生ずる回折波の超局所解析-----	111
東大・理                内田 素夫(Motoo Uchida)	
10. Microdifferential Equations with Non-Involutory Characteristics-----	122
防衛大                  打越 敬祐(Keisuke Uchikoshi)	

11. A remark on analytic hypoellipticity for operators with symplectic characteristics-----	133
埼玉大・理	桜井 力(Tsutomu Sakurai)
12. A calculus approach to hyperfunctions-----	165
名大・理	松澤 忠人(Tadato Matsuzawa)
13. Morse Inequalities for R-constructible Sheaves-----	175
Univ. Paris Nord	Pierre Schapira
東大・理	戸瀬 信之(Nobuyuki Tose)
14. A Geometric Approach to Diffraction Problems-----	183
東大・理	片岡 清臣(Kiyômi Kataoka)
15. Quantized Contact Transformations and Pseudodifferential Operators of Infinite Order-----	209
近畿大・理工	青木 貴史(Takashi Aoki)