RIMS Conference Microlocal Analysis and Related Topics

October 19-22, 2009Room No. 1405 of Osaka Umeda Campus, Kwansei Gakuin University*

Organizers

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*Refer to the URL below for the access

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Program

October 19 (Monday) 13:30-13:40 Opening 13:40-14:25Masaki Hibino (Okayama Science University) Summability of formal solutions for singular first-order linear PDEs with holomorphic coefficients II 14:35-15:20 Seiichiro Wakabayashi (Tsukuba University) On the Cauchy problem for hyperbolic operator of second order whose coefficients depend only on the time variable 15:40-16:25Hidetoshi Tahara (Sophia University) Gevrey regularities of solutions of nonlinear singular partial differential equa-16:35-17:20 Marian Roque (University of the Philippines) On the deficiency index of even-ordered symmetric differential expressions

October 20	(Tuesday)
10:30-11:15	Kinoshita Tamotu (Tsukuba University)
	A representation formula for solutions of generalized Tricomi equations
11:25-12:10	Sei Nagayasu (Hokkaido University)
	Reconstruction of penetrable obstacles in acoustics
13:40-14:25	Sunao Ouchi (Sophia Universuty)
	Existence of classical solutions near the characteristic points of first order non-
	linear partial differential equations in real domains
14:35-15:20	Shinichi Tajima (Niigata University), Yayoi Nakamura (Kinki University)
	Algebraic local cohomologies and b-function for semiquasihomogeneous singu-
	larities
15:40-16:25	Toshimasa Ishige (Chiba University)
	A family of K3 surfaces and a GKZ differential equation induced from a Fano
	polytope
16:35-17:20	Atsuhira Nagano (Waseda University)
	Period differential equation for families of K3 surfaces derived from reflexive
October 21	(Wednesday)
10:30-11:15	Yasunori Okada (Chiba University)
	A notion of boundedness at infinity for univariate hyperfunctions
11:25-12:10	Keisuke Uchikoshi (National Defence Academy of Japan)
	Microlocal analysis of a vortex sheet
13:40-14:25	Susumu Yamazaki (Nihon University)
	To be announced
14:35-15:20	Otto Liess (Bologna University)
	Geometric properties and decay estimates in crystal theory in the nearly cubic
	case (Results in collaboration with C.Melotti)
15:40-16:25	Naoto Kumanogo (Kogakuin University)
	Phase space Feynman path integrals via piecewise bicharacteristic paths and
10 25 17 20	their semiclassical approximations
16:35–17:20	Yasuyuki Oka (Sophia University), Kunio Yoshino (Tokyo City University)
	Asymptotic expansions of the solutions of the heat equations with generalized functions $(S_r^r)'$ initial value
	Tunctions (S_r) initial value
October 22	(Thursday)
10:30-11:15	Takashi Aoki (Kinki University), Naofumi Honda (Hokkaido University),
11.07.10.10	Youko Umeda (Hokkaido University)
	A construction of instanton-type solutions for Painlevé hierarchy by using
	multiple-scale analysis
11:25–12:10	Shingo Kamimoto (University of Tokyo)
19.40 14.05	On a Schrödinger operator with a merging pair of a simple pole and a simple
	turning point
13:40–14:25	Sampei Hirose (Kyoto University, RIMS)
14:35-15:20	WKB analysis for a holonomic system satisfied by the Pearcey integral Shinji Sasaki (Kyoto University, RIMS)
14.55-15.20	On the characterization of Stokes graphs for second order Fuchsian equations
15:20-15:50	Discussion and closing