University of Joensuu, Finland,
Mekrijärvi Research Station
April 2-9, 2006

Formal theory of PDEs and their applications 2006

Program of the Workshop:

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:00-9:00	Breakfast					
9:15-9:30	Opening *J. Tuomela*					
9:30-10:15	*I. Anderson* The Method of Darboux	*W. Wu* Introduction to Numeric Algebraic Geometric Methods for PDE .	*N. Tarkhanov* Generalised Elliptic Boundary Problems	*N. Ibragimov* Invariants of Differential Equations and Linearization Problems	*P. Kersten, I. Krasil'shchik, A .Verbovetsky* Coverings and Integrable Structures.	*G. Bluman* Framework for Potential Systems and Nonlocal Symmetries: Recent Results
10:20-11:05	*B. Kruglikov V. Lychagin* Multi-Brackets of Differential Operators & Integrability of PDEs	*G. Reid* Symbolic Numeric Methods for Intrinsic PDE systems.	*V. Romanovski* The Poincaré Center Problem and Linear PDEs	*V. Goldberg V. Lychagin* The Abelian Equations and Webs	*P. Kersten, I. Krasil'shchik, A. Verbovetsky* Integrability Properties of the Dispersionless Boussinesq Equation.	*V. Roubtsov* Lie algebroids and Localization in Equivariant Cohomology
11:10-11:55	*D. Krupka* Formal Divergence Equation	*E. Mansfield* Towards a variational complex for finite element systems	*K. Krupchyk* Elliptic Quasicomplexes in Boutet de Monvel's Algebra	*E. Ferapontov* On the Integrability of Hydrodynamic chains: the Haantjes tensor	*S. Igonin* Lie Algebras Associated with Backlund Transformations of PDEs	*O. Krupkova* Variational PDE's with Differential Constraints
12:00-13:30	Lunch					
13:30-14:15	*A. Kushner* Contact Classification of Monge-Ampère Equations	*J. Tuomela V. Normi* Simulation of Constrained Multibody Systems	**Excursion**	*P. Jakobsen, V. Lychagin* Maximum Entropy Wavefunctions & Thermodynamics for noncommuting Observables.	*M. Malakhaltsev* Infinitesimal Deformations of G-structures with Singularities	

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				The Role of the Logarithmic Schrödinger Equation.		
14:20-15:05	*B. Banos* Classification of Monge-Ampère Equations	*S. Ilie* Polynomial Cost of Numerical Solutions of DAE		*H. Huru* Quantizations, Braidings and Braided Derivations of Modules with Group action and Grading	*P. Mormul* Cartan distributions on $J^k(1,m)$ extended to Special m-flags on Monster manifolds	
15:05-	**Coffee**		**Excursion**	**Coffee**		
15:30-16:15	*D. Tunitsky* On Contact Equivalence of Monge-Ampère Equations	*F. Pugliese* Symmetries of PDE's via Complex transformations		*Y. Romanovsky* Lie's Symmetries and Cartan's Connections	*S. Sokolovskaya* Affine Connections on Stiefel manifolds *V. Golovko* Jacobi brackets on shadows of symmetries	
16:20-17:05	*G. Manno* On the Geometry of Projectively Equivalent connections.	*D. Catalano* *P. Morando* First Integrals associated to Symmetries of EDS		*C. Jensen* Linear ODEs as D-Modules: Decomposing and Solving Equations in terms of irreducible Representations of the Symmetry Algebras.	*I. Anderson* Maple Software Demonstration: Symbolic Methods in Differential Geometry and Lie Groups.	
18:00-	Dinner		Conference Dinner	Dinner		
19:00-	Sauna		**Smoke Sauna**	Sauna		

Chairpersons:

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9:30-11:55	V. Lychagin	K. Krupchyk	J. Tuomela	T. Arponen	N. Ibragimov	B. Kruglikov
13:30-17:05	D. Krupka	G. Bluman		I. Krasilshchik	N. Tarkhanov	