



International Workshop on Nonlinear and Modern Mathematical Physics

Shihezi, China (July 14 - 22, 2009)

July 14, 2009 (Tuesday) Arrival day

12:00-17:00 Registration

17:30-19:00 Reception

July 15, 2009 (Wednesday)

<p>Morning (9:30—11:00) Session Location: Academic Report Hall, Assembly Building, North Campus Chair: Wen-Xiu Ma</p>		
09:30-10:00	Opening Ceremony, Group Photo	
10:00-10:30	Ce-Wen Cao	Confocal polynomial integrals associated with the ZK-AKNS eigenvalue problem
10:30-11:00	Yuji Kodama	Combinatorics of the dispersionless Toda hierarchy
11:00-11:30	Syed Tauseef Mohyud-Din	Modified variational iteration method for partial differential equations using Ma's transformation
11:30-11:45	Coffee break	
<p>Morning (11:15—13:15) Session Location: Academic Report Hall, Assembly Building, North Campus Chair: Robert Conte</p>		
11:45-12:15	Yun-Bo Zeng	A new extended DKP hierarchy and generalized dressing method
12:15-12:45	Satoshi Tsujimoto	Discrete Toda lattice and elliptic orthogonal polynomials

12:45-13:15	Sen-Yue Lou	Conservation laws related to the infinite dimensional Kac-Moody-Virasoro symmetries
13:15	Lunch Time	
Afternoon (15:00—17:00) Session Location: Academic Report Hall, Assembly Building, North Campus Chair: Jarmo Hietarinta		
15:00-15:30	Yasuhiro Ohta	Dark soliton solution of Sasa-Satsuma equation
15:30-16:00	Kenichi Maruno	N-soliton solutions of two-dimensional soliton cellular automata
16:00-16:30	Da-Jun Zhang	Solving Q1 of the ABS lattice equations by constructive method
16:30-17:00	Jing-Song He	Remarks on additional symmetries of the KP hierarchy
17:00-17:15	Coffee break	
Afternoon (17:15—19:15) Tutorial Location: Academic Report Hall, Assembly Building, North Campus Chair: Ru-Guang Zhou		
17:15-19:15	Jonathan Nimmo	Tutorial: Darboux transformations and quasideterminants
19:30	Banquet	

July 16, 2009 (Thursday)

Morning (9:30—11:00) Session Location: Academic Report Hall, Assembly Building, North Campus Chair: Yuji Kodama		
9:30-10:00	Wen-Xiu Ma	Trace identities, variational identities and Hamiltonian structures
10:00-10:30	Jian-Ke Yang	Derivation of squared eigenfunctions in integrable equations
10:30-11:00	Junta Matsukidaria	Constructing two-dimensional integrable mappings that possess invariants of high degree
11:00-11:15	Coffee break	

Morning (11:15—13:15) Session Location: Academic Report Hall, Assembly Building, North Campus Chair: Decio Levi		
11:15-11:45	Tuncay Aktosun	Darboux transformation for the nonlinear Schrödinger equation
11:45-12:15	Zi-Xiang Zhou	The relationship between the hyperbolic NNV equation and the stationary DS II equation
12:15-12:45	Kouichi Takemura	Integral transformation and Darboux transformation of Heun's differential equation
12:45-13:15	Takeo Kojima	The integrals of motion for the elliptic deformed W-algebra
13:15	Lunch Time	
Afternoon (15:00—17:00) Session Location: Academic Report Hall, Assembly Building, North Campus Chair: Yun-Bo Zeng		
15:00-15:30	Robert Conte	Singlevalued solutions of the four-wave mixing model
15:30-16:00	Hidetaka Sakai	Monodromy preserving deformation and 4-dimensional Painlevé type equations
16:00-16:30	Anton Dzhamay	On the factorizations of rational matrix functions with applications to integrable systems and discrete Painlevé equations
16:30-17:00	Jonathan Nimmo	The Painlevé II equation as a model for steady electrolysis
17:00-17:15	Coffee break	
Afternoon (17:15—19:15) Tutorial Location: Academic Report Hall, Assembly Building, North Campus Chair: Qing-Ping Liu		
17:15-19:15	Yuji Kodama	Tutorial: Chords and solitons
19:30	Dinner Time	

July 17, 2009 (Friday)

Morning (9:30—11:00) Session Location: Academic Report Hall, Assembly Building, North Campus Chair: Ce-Wen Cao		
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9:30-10:00	Decio Levi	Recent results on multiscale technique and integrability of partial difference equations
10:00-10:30	Ru-Guang Zhou	On the nonholonomic deformations of soliton equations
10:30-11:00	Anjan Kundu	A nonlinearization scheme and new integrable hierarchies through nonholonomic deformations
11:00-11:15	Coffee break	
<p>Morning (11:15—13:15) Session Location: Academic Report Hall, Assembly Building, North Campus Chair: Jian-Ke Yang</p>		
11:15-11:45	Jarmo Hietarinta	Localized objects in the Faddeev-Skyrme model
11:45-12:15	Kouichi Toda	Static Hopfions in an extended Skyrme-Faddeev model
12:15-12:45	Ting-Wen Huang	Construction of Lyapunov function
12:45-13:15	Dun Zhao	On the nonautonomous nonlinear Schrödinger equations and soliton management
13:15	Lunch Time	
<p>Afternoon (15:00—17:00) Session Location: Academic Report Hall, Assembly Building, North Campus Chair: Jonathan Nimmo</p>		
15:00-15:30	Ziemowit Popowicz	Does the supersymmetric integrability imply the integrability of bosonic sector ?
15:30-16:00	Qing-Ping Liu	Supersymmetric fifth order equations
16:00-16:30	Masashi Hamanaka	Noncommutative integrable systems and quasideterminants
16:30-17:00	Chun-Xia Li	Quasideterminant solutions to a super KdV equation by Main and Radul
17:00-17:15	Coffee break	
<p>Afternoon (17:15—19:15) Tutorial Location: Academic Report Hall, Assembly Building, North Campus Chair: You-Jin Zhang</p>		
17:15-19:15	Boris Dubrovin	Tutorial: Introduction to the theory of Hamiltonian PDEs
19:30	Dinner Time	

July 18, 2009 (Saturday)

Morning (9:30—11:30) Session Location: Academic Report Hall, Assembly Building, North Campus Chair: Boris Dubrovin		
9:30-10:00	You-Jin Zhang	Jacobi structures for evolutionary PDEs and their reciprocal transformations
10:00-10:30	Paolo Casati	A comprehensive Lie theoretical approach to soliton equations
10:30-11:00	Chang-zheng Qu	Group classification of local and quasi-local symmetries to nonlinear evolution equations
11:00-11:30	Chiu-Yen Kao	A spectral method with window technique for the initial value problems of the Kadomtsev-Petviashvili equation
11:30-11:40	Coffee break	
Morning (11:40—13:40) Session Location: Academic Report Hall, Assembly Building, North Campus Chair: Sen-Yue Lou		
11:40-12:10	Mikhail Kovalyov	Nonlinear superposition for integrable systems
12:10-12:40	Li-Xin Tian	Low-regularity solutions of the periodic Fornberg-Whitham equation
12:40-13:10	Hong-Qing Zhang	The AC=BD model in the systems of partial differential equations
13:10-13:40	Qi Guo	Optical solitons
13:40	Lunch Time	
Afternoon (15:00—17:00) Session 1 Location: Academic Report Hall, Assembly Building, North Campus Chair: Chang-Zheng Qu		
15:00-15:20	Tadashi Kobayashi	A higher dimensional analogue of the Lax pair with non-isospectral parameters
15:20-15:40	Jun-Xiao Zhao	Exact solutions to nonlinear equations: Bilinear method and homoclinic technique
15:40-16:00	Hong-Yang Wang	Construction of different types of KP equation with self-consistent sources
16:00-16:20	Yu- Qin Yao	The generalized Kupershmidt deformation for integrable bi-Hamiltonian systems

16:20-16:40	Man Jia	Baroclinic equivalent and nonequivalent barotropic modes for rotating stratified flows
17:00-17:15	Coffee break	
Afternoon (15:00—17:00) Session 2 Location: Academic Report Hall, Assembly Building, North Campus Chair: Li-Xin Tian		
15:00-15:20	Pu Xu	Radiation pattern of second harmonic generation from a focused beam
15:20-15:40	Mustafa Azreg	A compact Mathematica program for reduced and Adomian polynomials
15:40-16:00	Cem Yuce	Stability of a dipolar Bose-Einstein condensation
16:00-16:20	Jiu-Li Yin	Classification of travelling wave solutions of the Fornberg-Whitham equation
16:20-16:40	Chang-Guang Shi	Exact magnetic knots induced by Ferreira's hopfions
16:40-17:00	Xi-Jun Deng	Integrals of motion for the Chen system
17:00-17:15	Coffee break	
Afternoon (17:15—19:15) Tutorial Location: Academic Report Hall, Assembly Building, North Campus Chair: Yasuhiro Ohta		
17:15-19:15	Jarmo Hietarinta	Tutorial: Definitions and predictions of integrability for difference equations
19:30	Dinner Time	

July 19, 2009 (Sunday) - July 21, 2009 (Tuesday)

Three-days tour with China Travel International

July 22, 2009 (Wednesday) Departure day

Attention: All speakers are requested to prepare your talks by using electronic presentation tools, preferably in pdf or ppt format!