Symmetries and Integrability of Difference Equations (SIDE) VII

Melbourne, Australia
July 10th - July 14th, 2006

Program:

- All talks will be held in Theatre 2 of the ICT Building, 111 Barry St, Carlton (see ICT on this map)
  [The ICT Building also houses The Australian Mathematical Sciences Institute (AMSI)]

- All talks include 5 minutes question time

- The titles of the talks below are linked to the corresponding abstracts.

Monday, July 10:

9.15- 9.30	Opening Remarks	
9.30-10.30	Detecting discrete and ultra-discrete equations of Painlevé type	R. G. Halburd
	Morning Tea Break	
11.00-11.30	Integrability and factorization	J. Hietarinta
11.30-12.00	Algebraic entropy	C. Viallet
	Lunch	
14.00-15.00	The QRT map as an automorphism of a rational elliptic surface	J. J. Duistermaat
15.00-15.30	Third-order integrable difference equations generated by a pair of second-order equations	J. Matsukidaira
	Afternoon Tea Break	
16.00-16.30	Finite-order meromorphic solutions and the discrete Painlevé equations	R. Korhonen
16.30-17.00	On invariant varieties of periodic points for some rational integrable maps on C^d	S. Saito
17.00-18.00	Welcome Drinks	

Tuesday, July 11:

9.30-10.30	Y-systems and cluster algebras	A. Zelevinsky
	Morning Tea Break	
11.00-11.30	Time-sliced path integrals with stationary states	C. M. Field
11.30-12.00	Asymptotic symmetries of difference equations on a lattice	D. Levi
	Lunch	
14.00-15.00	The exact correspondence between conserved quantities of a periodic box-ball system and string solutions of the Bethe ansatz equations	T. Tokihiro
15.00-15.30	Connection matrices for ultradiscrete linear problems	C. Ormerod
	Afternoon Tea Break	
16.00-16.30	Ultradiscretization without positivity	A. Ramani
16.30-17.00	Integrable ultra-discrete equations and singularity analysis	S. Lafortune
17.00-18.00	Poster Session	

Wednesday, July 12:

	Discrete integrable systems and the real time simulation	

9.00-10.00	Discrete integrable systems and the real time simulation of fluid flow	U. Pinkall
10.00-10.30	Integrable surfaces in arbitrary parametrizations and their discretization	M. Nieszporski,
Morning Tea Break		
11.00-11.30	The B-quadrilateral lattice and its reductions	A. Doliwa
11.30-12.00	Discrete s-isothermic surfaces of constant mean curvature and a discrete sinh-Gordon equation	T. Hoffmann
Lunch		
Free Afternoon		

Thursday, July 13:

9.30-10.30	Lattice models in statistical mechanics: the chiral Potts model	R. J. Baxter
Morning Tea Break		
11.00-11.30	Tetrahedron equations and integrability	S. Sergeev
11.30-12.00	Yang-Baxter maps, symmetries and reductions of integrable equations on quad-graphs	A. Tongas
Lunch		
14.00-15.00	Lax form of q-Painlevé equation associated to $A_2^{(1)}$-surface	H. Sakai
15.00-15.30	Hypergeometric solutions to the q-Painlevé equation of type (A_1+A_1')	K. Kajiwara
Afternoon Tea Break		
16.00-16.30	Tau functions of the hypergeometric solutions to the q-difference Painlevé system of type $E_7^{(1)}$	T. Masuda
16.30-17.00	On a nonabelian Hirota-Miwa equation	J. J. C. Nimmo
Conference Dinner		

Friday, July 14:

9.30-10.30	Classification and moduli for q-difference equations	M. van der Put
Morning Tea Break		
11.00-11.30	Confluence of fuchsian difference systems to differential systems	J. Roques
11.30-12.00	Painlevé versus Fuchs	J.-M. Maillard
Lunch		
14.00-15.00	Continuous and discrete Painlevé equations in random matrix theory	P. Forrester
15.00-15.30	Connection and asymptotic problems in scaled random matrix ensembles	N. S. Witte
Afternoon Tea Break		
16.00-16.30	Some applications of multiple Hermite polynomials	W. Van Assche
16.30-17.00	Symmetry reduction of quadrilateral lattices and higher-order discrete Painlevé systems	F. Nijhoff