

**International Conference on
SYMMETRIES & INTEGRABILITY IN DIFFERENCE EQUATIONS
[SIDE - XI]
(June 16 - 21, 2014)**

**NATIONAL MATHEMATICS INITIATIVE (NMI)
Indian Institute of Science, Bangalore**

Venue: Faculty Hall, IISc, Bangalore

Programme Schedule

**June 16, 2014
(Monday)**

09:30 AM - 10:00 AM	Discrete Integrable Systems from the self-dual Yang-Mills equations <i>Halburd</i>
10:00 AM - 10:30 AM	Discrete KP equation with self-consistent sources <i>Lin</i>
10:30 AM - 11:15 AM	Tea/Coffee
11:15 AM - 11:45 AM	Strongly asymmetric discrete Painlevé equations <i>Grammaticos</i>
11:45 AM - 12:15 PM	From Polygons to ultradiscrete Painleve equations <i>Ormerod</i>
12:15 PM - 02:00 PM	Lunch
02:00 PM - 02:30 PM	Solutions of the q-discrete $A_7^{(1)}$ Painlevé equation <i>Joshi</i>
02:30 PM - 03:00 PM	The Laurent Property and Discrete Integrable Systems <i>Mase</i>
03:00PM - 03:45 PM	Tea/Coffee
03:45 PM - 04:15 PM	ABS equations arising from discrete Painlevé systems <i>Nakazono</i>
04:15 PM - 04:45 PM	Integrable and superintegrable systems associated to multi-sums of products <i>Tran</i>
04:45 PM - 05:15 PM	Spatial pattern of discrete and ultradiscrete Gray-Scott model <i>Matsuya</i>

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**June 17, 2014
(Tuesday)**

09:30 AM - 10:00 AM	Irreducibility and co-primeness as an integrability criterion for discrete equations <i>Tokihiro</i>
10:00 AM - 10:30 AM	A study of the cellular-automaton sine-Gordon equations and of its solutions <i>Ramani</i>
10:30 AM - 11:15 AM	Tea/Coffee
11:15 AM - 11:45 AM	Discrete Schlesinger Equations and Difference Painlevé Equations <i>Dzhamay</i>
11:45 AM - 12:15 PM	Torsion-preserving isoperimetric deformation of space discrete curves and its exact solutions <i>Kajiwara</i>
12:15 PM - 02:00 PM	Lunch
02:00 PM - 02:30 PM	Detecting integrability of discrete equations by irreducibility and co - primeness <i>Kanki</i>
02:30 PM - 03:00 PM	Ultradiscrete Painleve VI with parity variables <i>Takemura</i>
03:00PM - 03:45 PM	Tea/Coffee
03:45 PM - 04:15 PM	Schlesinger transformation and discrete Painlevé equation of type $A_1^{(1)}$. <i>Takenawa</i>
04:15 PM - 04:45 PM	Bilinear structures of Discrete Boussinesq-type equations <i>D. Zhang</i>
04:45 PM - 05:15 PM	Integrable quad equations and discrete Poincaré equations <i>Yang Shi</i>

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**June 18, 2014
(Wednesday)**

Trip to Belur and Halebidu

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**June 19, 2014
(Thursday)**

09:30 AM - 10:00 AM	Distinguished subsystems of the discrete KP equation in multidimensions <i>Doliwa</i>
10:00 AM - 10:30 AM	Elliptic integrable systems on the lattice and associated continuous systems <i>Nijhoff</i>
10:30 AM - 11:15 AM	Tea/Coffee
11:15 AM - 11:45 AM	Discretisations of constrained KP hierarchies <i>Wilcox</i>
11:45 AM - 12:15 PM	Multiple scales expansion and integrable discrete system. <i>Levi</i>
12:15 PM - 02:00 PM	Lunch
02:00 PM - 02:30 PM	Discrete Boussinesq equations <i>Hietarinta</i>
02:30 PM - 03:00 PM	Rogue wave solution of Ablowitz-Ladik equation <i>Ohta</i>
03:00PM - 03: 45 PM	Tea/Coffee
03:45 PM - 04:15 PM	On the combinatorics of consistency: symmetry-completeness <i>Atkinson</i>
04:15 PM - 04: 45 PM	On consistency of discrete variational systems. Octahedron relations <i>Boll</i>
04:45 PM - 05:00 PM	From ODE to Nonlinear Partial Differential Difference Equations <i>Kanagavel</i>
05:00 PM - 05:15 PM	Peaked soliting (Peatzons) of Degasperis processing equations <i>Bhat</i>

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**June 20, 2014
(Friday)**

09:30 AM - 10:00 AM	Integrable properties of the Kahan-Hirota-Kimura discretization and its generalizations <i>Quispel</i>
10:00 AM - 10:30 AM	Symmetries and first integrals for difference equations which have no variational formulation <i>Dorodnitsyn</i>
10:30 AM - 11:15 AM	Tea/Coffee
11:15 AM - 11:45 AM	Fake Lax pairs <i>Hay</i>
11:45 AM - 12:15 PM	Involutive Maps and Discrete Integrable Systems <i>Nieszporski</i>
12:15 PM - 02:00 PM	Lunch
02:00 PM - 02:30 PM	Poisson structure for specific periodic reductions of integrable lattice equations <i>Kouloukas</i>
02:30 PM - 03:00 PM	Twisted reductions from non-autonomous lattice equations <i>Van der Kamp</i>
03:00 PM - 03:45 PM	Tea/Coffee
03:45 PM - 04:15 PM	A matrix-based framework to structure-preserving discretization of continuum theories <i>Pavlov</i>
04:15 PM - 04:45 PM	Aspects of discrete integrable systems with a boundary <i>C. Zhang</i>
04:45 PM - 05:15 PM	Round-table discussion

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**June 21, 2014
(Saturday)**

09:30 AM - 10:00 AM	Linearisable QRT Mapping <i>Tamizharasi Tamizhmani</i>
10:00 AM - 10:30 AM	First integrals of discrete equations admitting symmetries <i>Kozlov</i>
10:30 AM - 11:15 AM	Tea/Coffee
11:15 AM - 11:45 AM	Linearisable mappings and their explicit integration <i>Tamizhmani</i>
11:45 AM - 12: 15 PM	Motzkin Numbers out of an Earthquake Cellular Automaton Model <i>Bialecki</i>
12:15 PM - 02: 00 PM	Lunch

***** **End of Conference** *****