

RIMS workshop
Representation Theory, Special Functions
and Painlevé Equations

Date: From March 3 to March 6, 2015

Venue: Room 420, RIMS (Kyoto University), Japan

March 3 (Tuesday)

- 13:00–14:00 Jan Felipe van Diejen (Talca)
Branching formula for Macdonald-Koornwinder
polynomials
- 14:30–15:30 Yasushi Kajihara (Kobe)
Families of transformations for bilinear sum of (basic)
hypergeometric series and multivariate generalizations
- 16:00–17:00 Tom Koornwinder (Amsterdam)
Some remarks about Koornwinder polynomials

March 4 (Wednesday)

- 09:30–10:30 Simon Ruijsenaars (Leeds)
Quantum integrable systems of elliptic Calogero-Moser
type
- 11:00–12:00 Jasper V. Stokman (Amsterdam)
From Noumi's representation to elliptic K-matrices
- 13:30–14:30 Frank W. Nijhoff (Leeds)
On elliptic Lax pairs and isomonodromic deformation
problems for integrable lattice systems
- 14:45–15:45 Nalini Joshi (Sydney)
Elliptic asymptotics for discrete Painlevé equations
- 16:00–17:00 Kenji Kajiwara (Kyushu)
Integrable discrete deformations of discrete curves:
geometry and solitons, old and new

March 5 (Thursday)

- 09:30–10:30 Philip Boalch (Paris)
Non-perturbative symplectic manifolds and
non-commutative algebras
- 11:00–12:00 Marta Mazzocco (Loughborough)
Painlevé equations and q -Askey scheme
- 13:30–14:30 Tôru Umeda (Kyoto)
Remarks on the Capelli identities for reducible modules
- 14:45–15:45 Anatol N. Kirillov (RIMS, Kyoto)
Plactic algebra, Cauchy kernels and plane partitions
- 16:00–17:00 Masatoshi Noumi (Kobe)
Special functions arising from elliptic integrable systems

March 6 (Friday)

- 09:30–10:30 Katsuhisa Mimachi (Osaka)
Monodromy representations associated with the
generalized hypergeometric function ${}_{n+1}F_n$
- 11:00–12:00 Vyacheslav P. Spiridonov (JINR, Dubna)
Elliptic hypergeometric functions and superconformal
indices

Organizers: Hitoshi Konno (TUMSAT) Yasuho Masuda (Kobe)
Masa-Hiko Saito (Kobe) Hidetaka Sakai (Tokyo)
Junichi Shiraishi (Tokyo) Takao Suzuki (Kinki)
Yasuhiko Yamada (Kobe)

