

**Loughborough University**  
**Department of Mathematical Sciences**

***Mathematical Physics Seminars 2011***

**Wednesdays 4 pm Room W 002**

- February 9 Alexander Veselov Gaudin subalgebras and moduli spaces
- February 16 Tom Bridgeland (Oxford) Stokes factors and multilogarithms
- February 23 Alex Strohmaier Representations of  $SL(2, \mathbb{R})$
- March 9 Graham Kemp Geometric quantization of Dirac monopole
- March 16 Brian Winn Derivative moments for characteristic polynomials of the unitary group
- March 23 Galliano Valent (Paris) Painleve-VI and Einstein metrics  
Vladimir Gerdjikov (Sofia) On Schrodinger equations related to symmetric spaces and soliton interactions
- March 30 Stephen Casey (Cambridge) Projective, optical and path geometries  
Lev M. Lerman (Nizhny Novgorod) Bifurcations in Hamiltonian systems
- April 13 Bernhard Keller (Paris) Quiver mutation and quantum dilogarithm identities
- May 11 Marta Mazzocco Poisson algebra of block upper triangular matrices
- May 18 Nick Addington (Imperial) Complete intersection of quadrics
- May 25 Nalini Joshi (Sydney) Geometric asymptotics for the first Painleve equation
- September 19 Raimundas Vidunas (Kobe) Belyi maps for Heun-to-hypergeometric transformations
- October 5 Anton Izosimov Singularities of bi-Hamiltonian systems
- October 10 Hidekazu Ito (Kanazawa) Noncommutatively integrable vector fields and their normal forms at singular points

October 12 Stefan Rosemann (Jena) Yano-Obata conjecture for holomorphic-projective transformations

October 19 Alexey Bolsinov Manakov top and special holonomy

October 26 Vladimir Roubtsov (Angers) Quadratic non-commutative Poisson structures

November 2 Vladimir Roubtsov (Angers) Polynomial Poisson structures, elliptic algebras, Heisenberg group and Cremona transformations

November 9 Stefan Kolb (Newcastle) Braid group actions for quantum symmetric pairs

November 16 Daniele Sepe (Leicester) Lagrangian bundles and integral affine geometry

November 23 Pantelis Damianou (Cyprus) Height 2 Toda systems

November 25 Integrable Day

November 30 East Midlands Math Physics seminar

December 9 Anatol Odziejewicz (Bialystok) Positive definite kernels and quantization

Organiser: A.P. Veselov