Loughborough University
Department of Mathematical Sciences

Mathematical Physics Seminars 2013

Wednesdays   4 pm   Room W002

January 9   Piotr Sułkowski (Amsterdam) On knots, super-A-polynomial, and 3d gauge theories

January 16   Paolo Lorenzoni (Milano-Bicocca) Darboux-Egorov system, bi-flat F-manifolds and Painleve-VI

February 13 Leonid Chekhov   R-matrix algebra and groupoids

February 15   Sergei Dobrokhotov (IPM, Moscow) Focal points in linear and nonlinear wave equation with degenerating velocity

February 20   Sergei Shadrin (Amsterdam) Frobenius manifolds and topological recursion for matrix models

February 27   Sergei Dobrokhotov (IPM, Moscow) Pseudo-differential operators in homogenisation problems

March 6   Ilia Roustemoglou   Integrable differential-difference equations in 2+1 dimensions

March 13   Graham Kemp   Dirac monopoles on graphs of platonic solids

March 27   2pm, W190 Georgy Sharygin (Moscow) Geometry and topology of full symmetric Toda system

4pm, W002 Andrei Marshakov (ITEP, Moscow)   Dimers, wiring diagrams and integrable systems

April 17 Martina Balagovic (York) Representations of rational Cherednik algebras

April 24   Reiner Kuehn (King's College) Spectra of sparse random matrices and localization on random graphs

May 1   Vassili Gorbunov (Aberdeen) Quantum cohomology and quantum groups

May 8   Marta Mazzocco   Confluences of Cherednik algebras and q-Askey scheme

May 15 Dmitriy Rumynin (Warwick) Lie algebras in symmetric monoidal categories

May 22   Antonio Moro (Northumbria) Integrable viscous conservation laws and applications

May 31, W190 Alex Tovbis (Central Florida) Nonlinear steepest descent method for asymptotic of Riemann-Hilbert problems

September 18   Leonid Bunimovich (Georgia) Isospectral transformations: a new approach to analysis of multidimensional systems and networks

October 2   Paolo Lorenzoni (Milano-Bicocca) Deformations of Poisson pencils of hydrodynamic type. An introduction

October 9   Artie Prendergast-Smith   Enumerative geometry

October 16   Martin Hallnas   A product formula for quartic oscillators

October 23   Burt Totaro (Cambridge) Symmetric differentials and the fundamental group

October 30   Jorgen Andersen (Aarhus) RNA and protein folding via moduli space techniques

November 6   Vasily Golyshev (Moscow and Imperial) Mirror symmetry and Fano manifolds

November 8 (3pm, W190)   Andriy Panasyuk (Olsztyn) Compatible Lie brackets: towards a classification
Alexey Bolsinov   Jordan-Kronecker invariants of finite-dimensional Lie algebras

November 13   Raffaele Vitolo Reduction and quantization of a rigid body

November 20   Ergodic Theory meeting (Aimino, Baladi, Khanin)

November 27   Rustem Garifullin (Ufa, Russia)   TBA
Vladimir Rubtsov (Angers) TBA

November 29   Integrable Day (Chekhov, Krasnov, Molev, Rietsch)

December 4   Sergey Oblezin (Nottingham) Macdonald polynomials and Baxter operators

December 11   Veronika Schreiber   Buffon transformation for polyhedra

Organiser: A.P. Veselov