

Loughborough University

Department of Mathematical Sciences

Mathematical Physics Seminars 2006

Tuesdays 2-4 pm Room W 190

February 6 Slava Kurylev "Dirac operator: inverse problems and Index theorem I"

February 13 Slava Kurylev "Dirac operator: inverse problems and Index theorem II"

February 20 Jenya Ferapontov "Geometry of hydrodynamic chains"

February 24 Ivan Cheltsov (Edinburgh) "Finite subsets of projective spaces and topology of threefolds"

February 27 Holger Dullin "Optimal normal form for volume preserving maps" and Slava Kurylev "Dirac operator: inverse problems and Index theorem III"

March 6 Alexey Bolsinov "Mishchenko-Fomenko conjecture"

March 13 Andy Hone (Kent) "Mappings with the Laurent property and associated Diophantine problems"

March 20 David Calderbank (York) "Submanifolds of celestial spheres: geometry and integrability"

May 2 Alexander Turbiner (Mexico) "Solvable Schroedinger equations and representation theory"

May 3 Alexey Tsygvintsev (Lyon) "Galois obstructions to integrability" and Christian Klein (Max Planck, Leipzig) "Numerical treatment of the small dispersion limit of Korteweg de Vries and Whitham equations"

May 8 Leo Butler (Edinburgh) "Toda lattices and positive-entropy integrable systems"

May 10 John Gibbons (Imperial) "A trigonal reduction of the Benney hierarchy"

May 15 LMS Regional meeting at Leicester

May 22 Antonio Moro "Integrable regimes in nonlocal nonlinear optics"

June 12 Maxim Pavlov (Moscow) "Explicit solutions of the WDVV equation"

October 10 Eugenie Hunsicker "An introduction to L^2 Hodge theorems"

October 17 , 4pm Vladimir Sokolov (Landau Institute, Moscow) "Pairs of commuting Hamiltonians quadratic in momenta"

October 24 Thomas Bartsch "The hydrogen atom in crossed fields: From periodic orbits to quantised tori"

October 31 Rod Halburd "Height growth and Diophantine integrability in discrete systems"

November 7 Alexey Bolsinov "Projectively equivalent Riemannian metrics and integrable $SO(n)$ -tops"

November 14 Alexander Veselov "Integrable chaos"

November 21 Alexander Odesskii (Manchester) "Algebraic structures connected with pairs of compatible associative algebras"

November 24 Integrable Day in Loughborough

December 5 Andrew Watson (Aeronautical) "Exact solutions for Sturm-Liouville problem on a tree"

December 12 Slava Kurylev "Invisibility: limitation to Inverse Problems?"

Organiser: A.P. Veselov