

Loughborough University

Department of Mathematical Sciences

Mathematical Physics Seminars 2004

Tuesdays 4pm Room W 145

February 3 Sasha Veselov *Quantum problems on Sol-manifolds and arithmetic*

February 10 Holger Dullin *Semi-global symplectic invariants*

February 17 Sasha Pushnitski *Trace formula and high energy spectral asymptotics for the perturbed Landau Hamiltonian*

February 26 Dmitri Alekseevski (Hull) *Geometry of flag manifolds*

March 2 Udo Hertrich-Jeromin (Bath) *Nonstandard analysis methods in differential geometry ?*

March 9 Slava Kurylev *Inverse problem for anisotropic Maxwell's system*

March 16 Yuri Netrusov (Bristol) *Covering properties of compacts cannot be characterized in terms of Hausdorff measures*

March 23 Rod Halburd *Movable singularities of solutions of differential equations*

April 27 Mark Gross (Warwick) *Tropical geometry and applications*

April 28 Leonid Bogdanov (Moscow) *Quasi-classical \bar{d} -bar method and dispersionless integrable hierarchies*

May 4 Burt Totaro (Cambridge) *Flat Hessian metrics and the equations of associativity*

May 18 Mikhail Levitin (Heriot-Watt) *Spectral pollution*

May 25 Peter Shiu *Egyptian fractions*

May 26 Oleg Chalykh (Cornell) *Weyl algebra and Calogero-Moser spaces*

June 8 Sergei Tsarev (Krasnoyarsk) *From Schroedinger equation to categories*

September 10 Peter Richter (Bremen) *A study of (non-) integrable rigid body dynamics*

October 5 Jenya Ferapontov *On a class of 3-dimensional integrable Lagrangians*

October 12 Ian Sorrell *High energy asymptotics for a perturbed harmonic oscillator*

October 19 Alan Beardon (Cambridge) *Continued fractions in all dimensions*

October 22 Anatoly Kamchatnov (Troitsk) *Whitham theory for KdV equation*

November 2 Gerasim Kokarev (Heriot-Watt) *Harmonic maps and Morse-Bott theory*

November 9 Holger Dullin *Degenerate Neumann system*

November 16 Sasha Veselov *Coincident root loci and integrable systems*

November 23 Sasha Pushnitski *Perturbed Landau Hamiltonian and logarithmic capacity*

November 26 INTEGRABLE DAY IN LOUGHBOROUGH

November 30 Ivan Cheltsov (Edinburgh) *Birational geometry of surfaces and 3-folds*

December 7 Viacheslav Nikulin (Liverpool) *Del Pezzo surfaces with quotient singularities*

December 8 Vladimir Roubtsov (University of Angers, France)
Algebraic mechanism of the Stäckel separation of variables

Organiser: A.P. Veselov