

# Loughborough University

## Department of Mathematical Sciences

### *Mathematical Physics Seminars 2007*

**Mondays 5 pm Room W 190**

February 12 Alexey Bolsinov "Action variables, affine structures and symplectic invariants of singular Lagrangian fibrations. I"

February 19 Alexey Bolsinov "Action variables, affine structures and symplectic invariants of singular Lagrangian fibrations. II"

February 26 Eugenie Hunsicker "An introduction to intersection homology and cohomology"

March 5 Gennady El "Isospectral kinetic equation for a soliton gas"

March 12 Jenya Ferapontov "Integrable Lagrangians and modular forms"

March 19 Yuri Berest (Cornell) "Deformed preprojective algebras and the Calogero-Moser correspondence"

April 30 Anatoly Neishtadt "Adiabatic invariants in two frequency systems"

May 14 Mark Haskins (Imperial) "Spectral curves, spectral geometry and special Lagrangian cones"

May 21 Alex Strohmaier "Ergodic decompositions in spectral geometry and quantum physics"

June 4 Martin Speight (Leeds) "On the strong coupling limit of the Faddeev-Hopf model" and  
Vladimir Novikov (Kent) "On dispersion relations of integrable systems"

June 11 Chris Fewster (York) "Energy inequalities in quantum field theory"

July 30 Dmitry Jacobson (Montreal) "Estimates from below for the Spectral Function and for the Error term in Weyl's Law"

Organiser: A.P. Veselov