

Symplectic Geometry and Physics Workshop I: Symplectic Geometry

Monday March 24, 2003

- 8:30–9:30 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:30–10:40 **Eleny Ionel** (University of Wisconsin)
Counting embedded curves in 3-folds
- 10:40–11:00 *Coffee Break*
- 11:00–12:00 **Naichung Conan Leung** (University of Minnesota, Twin Cities)
Geometry over R, C, H, O
- 12:00–1:30 *Lunch (hosted by IPAM)*
- 1:30–2:30 **Vsevolod Shevchishin** (Ruhr-University, Bochum, Germany)
On the symplectic isotopy problem.
- 2:30–3:00 *Coffee Break*
- 3:00–4:00 **Dietmar Salamon** (ETH, Zurich)
Wall crossing for symplectic vortices and quantum cohomology.
- 4:00–4:30 *Coffee Break*
- 4:30–5:30 **Ignasi Mundet i Riera** (University Polit. Catalunya)
A compactification of the universal jacobian and Hamiltonian Gromov-Witten invariants



Tuesday March 25, 2003

- 8:30–9:30 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:30–10:30 **Yi-Jen Lee** (Princeton University)
Noncontractible periodic orbits, Gromov Invariants, and Floer-theoretic torsions.
- 10:30–11:00 *Coffee Break*
- 11:00–12:00 **Claude Viterbo** (Ec Pol)
Floer homology and several complex variables.
- 12:00–1:30 *Lunch (on your own)*
- 1:30–2:30 **Dieter Kotschick** (LMU Munich)
Geography of symplectic four-manifolds and applications
- 2:30–3:00 *Coffee Break*
- 3:00–4:00 **Peter Ozsvath** (Princeton University)
Holomorphic disks and knot invariants

Wednesday March 26, 2003

- 8:30–9:30 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:30–10:30 **Michael Hutchings** (University of California at Berkeley)
The embedded contact homology of T^3
- 10:30–11:00 *Coffee Break*
- 11:00–12:00 **Stefano Vidussi** (KSU)
Non-isotopic lagrangian tori in a fixed homology class
- 12:00–1:30 *Lunch (on your own)*
- 1:30–2:30 **Ronald Fintushel** (MSU)
Branched covers and Seiberg-Witten invariants
- 2:30–3:00 *Coffee Break*
- 3:00–4:00 **Tian-Jun Li** (University of Minnesota)
Symplectic 4-manifolds with Kodaira dimension zero
- 4:00–4:30 *Coffee Break*
- 4:30–5:30 **Andras Stipsicz** (Renyi Institute, Budapest)
On Stein fillings of contact 3-manifolds

Thursday March 27, 2003

- 8:30–9:30 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:30–10:40 **Emmanuel Giroux** (Ecole Normale Supérieure de Lyon, France)
Contact structures and symplectic open books
- 10:40–11:00 *Coffee Break*
- 11:00–12:00 **Ko Honda** (University of Southern California)
Knots in contact manifolds.
- 12:00–1:30 *Lunch (on your own)*
- 1:30–2:30 **Paolo Lisca** (University of Pisa)
Fillability versus tightness
- 2:30–3:00 *Coffee Break*
- 3:00–4:00 **Kaoru Ono** (Hokkaido University, Japan)
Symplectic fillings of links of certain isolated surface singularities
- 4:00–4:30 *Coffee Break*
- 4:30–5:30 **Francisco Presas** (Stanford University)
Lagrangian submanifolds in Lefschetz pencils.
- 5:30–7:00 *Wine/Cheese Reception (Hosted by IPAM)*

Friday March 28, 2003

- 8:30–9:30 *Check-In/Light Breakfast (Hosted by IPAM)*
- 9:30–10:40 **Mark Gross** (UCSD / University of Warwick)
Affine manifolds and mirror symmetry
- 10:40–11:00 *Coffee Break*
- 11:00–12:00 **Kenji Fukaya** (Kyoto University)
Asymptotic analysis and homological mirror symmetry
- 12:00–1:30 *Lunch (on your own)*
- 1:30–2:30 **Lenny Ng** (Stanford University)
Knot and braid invariants from contact homology
- 2:30–3:00 *Conclusion*

