Geometry of Lagrangian Submanifolds

Monday April 14, 2003

8:00–9:15 *Check-In/Light Breakfast (Hosted by IPAM)*

9:15–10:30 **Albrecht Klemm** (Humboldt University, Berlin)
Tutorial: Gromov-Witten invariants on Calabi-Yau spaces and their interpretation in physics

10:30–11:00 *Coffee Break*

11:00–12:00 **Anton Kapustin** (Caltech / USC)
The Geometry of A-branes.

12:00–2:00 *Lunch (on your own)*

2:00–3:00 **Naichung Conan Leung** (University of Minnesota, Twin Cities)
Intantons and Lagrangian submanifolds in manifolds with vector cross products

3:00–3:30 *Coffee Break*

3:30–4:30 **Alexei Kovalev** (Cambridge University)
A special Lagrangian fibration of smooth compact Calabi-Yau 3-fold. (progress report)

4:30–5:00 **Tommaso Pacini** (Massachusetts Institute of Technology)
A report on special Lagrangian and minimal Lagrangian deformations

5:00–7:00 *Wine/Cheese Reception (Hosted by IPAM)*

Tuesday April 15, 2003

8:30–9:15 *Check-In/Light Breakfast (Hosted by IPAM)*

9:15–10:30 **Mina Aganagic** (Harvard University)
Duality and topological strings

10:30–11:00 *Coffee Break*

11:00–12:00 **Chiu-Chu (Melissa) Liu** (Harvard University)
Open Gromov-Witten theory

12:00–2:00 *Lunch (on your own)*

2:00–3:00 **Jim Bryan** (University of British Columbia, Vancouver)
The local Gromov-Witten invariants of curves in Calabi-Yau 3-folds and topological quantum field theory.

3:00–3:30 *Coffee Break*

3:30–4:30 **Frederic Helein** (Ecole Normale Supérieure, Cachan, France)
Hamiltonian stationary lagrangian surfaces as an integrable system

4:30–5:30 **Ai-Ko Liu** (University of California at Berkeley)
Type II exceptional curves in family SW theory

Wednesday April 16, 2003

8:30–9:15 *Check-In/Light Breakfast (Hosted by IPAM)*

9:15–10:30 **Rick Schoen** (Stanford University)
Tutorial on analytic methods, results, and conjectures

10:30–11:00 *Coffee Break*

11:00–12:00 **Mu-Tao Wang** (Math)
Mean curvature flows of lagrangian submanifolds

12:00–2:00 *Lunch (on your own)*

2:00–3:00 **Mark Haskins** (Johns Hopkins University)
Isolated conical singularities of special Lagrangian varieties

3:00–3:30 *Coffee Break*

3:30–4:00 **Pascal Romon** (Universite de Marne-la-Vallee)
H-minimal tori in C^2 : the integrable system and spinorial viewpoints

4:05–4:35 **Weiyang Qiu** (Harvard University)
Special Lagrangian Submanifolds with Boundary and Lagrangian Free boundary Problem.

4:40–5:10 **Adrian Butscher** (University of Toronto at Scarborough)
Regularizing a Singular Special Lagrangian Variety and Application to

5:15–5:35 **Marco Zambon** (University of California at Berkeley)
Averaging of isotropic submanifolds

5:40–6:40 **Paul Biran** (Tel-Aviv University, Israel)
Symplectic Obstructions in Algebraic Geometry

Thursday April 17, 2003

8:30–9:15 *Check-In/Light Breakfast (Hosted by IPAM)*

9:15–10:30 **Mark Gross** (University of California at San Diego)
Tutorial: Lagrangian fibrations

10:30–11:00 *Coffee Break*

11:00–12:00 **Pelham Wilson** (Cambridge University)
Metric limits of Calabi–Yau manifolds

12:00–2:00 *Lunch (on your own)*

2:00–3:00 **Ilia Zharkov** (Duke University)
Limiting behavior of Calabi-Yau metrics

3:00–3:30 *Coffee Break*

3:30–4:30 **Alexander Polishchuk** (Boston University)
Holomorphic bundles on noncommutative tori and Lagrangian foliations.

4:30–5:30 **Wei-Dong Ruan** (University of Illinois at Chicago)
Generalized special Lagrangian torus fibration for Calabi-Yau

5:30–7:30 *Dinner (Hosted by IPAM)*

Friday April 18, 2003

8:30–9:15 *Continental Breakfast*

9:15–10:30 **Eric Zaslow** (Northwestern University)
D-brane Compendium

10:30–11:00 *Coffee Break*

11:00–12:00 **Richard Thomas** (Imperial College, London, UK)
Uniqueness of special lagrangians

12:00–2:00 *Lunch (on your own)*

2:00–3:00 **Yong-Geun Oh** (University of Wisconsin)
Geometry of coisotropic D-branes and Floer homology

3:00–3:30 *Coffee Break*

3:30–4:30 **Gang Tian** (Massachusetts Institute of Technology)
Compactifying manifolds with special holonomy

4:30–5:00 *Conclusion*