

Symplectic Geometry and Holomorphic Curves

Saturday, September 1, 2001 (All day) - Sunday, June 30, 2002 (All day)
(2001-2002)

The goal of the program is to explore different aspects of the theory of holomorphic curves and their interaction. A special accent will be made on applications to Symplectic geometry in low-dimensional topology.

Weekly Activities

- **Weekly seminar** on Tuesday at 1:30pm
- **Weekly minicourses** on Friday at 1:30pm

The time and length of both the seminars and the courses may vary depending on the request of speakers, other competing seminars etc. Please consult the weekly IAS seminar e-mail or the IAS [seminar page](#) for exact times. From time to time there will be an additional seminar on Thursday at 1:30pm.

The minicourses during the second semester will be:

- "Floer Cohomology and Picard-Lefschetz Theory" (P. Seidel, January-February, 2002). The first lecture will be January 18th.
- "Holomorphic disks and invariants for 3-manifolds and smooth 4-manifolds" (P. Ozsvath and Z. Szabo, February 2002). The first lecture will be Wednesday, February 6th.
- "Topological String Theory" (R. Dijkgraaf, March 2002)
- "Multivalued Morse Theory, Asymptotic Analysis and Mirror Symmetry" (K. Fukaya, March 2002)
- "Supersymmetry and Mirror Symmetry" (K. Hori, March-April, 2002)
- "Gromov-Witten Theory of CP^1 " (R. Pandharipande, April 2002)

Conference

["Holomorphic Curves and Low-Dimensional Topology"](#) (March 24-29, 2002)

C.H. Taubes will deliver his Herman Weyl lectures during the conference.

Previous Semester

The minicourses during the first semester were:

- "Frobenius manifolds and integrable systems" (B. Dubrovin, October-November 2001)
- "Algebraic structures arising in Symplectic Field Theory" (Y. Eliashberg, November-December 2001)

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There were also two "learning seminars":

- Quantum Cohomology via Givental's Lecture Notes
- Taubes' work on Holomorphic Curves for $S^1 \times S^2$

Finally, there was a conference: "[Gromov-Witten Invariants and Integrable Systems](#)" (December 8-13, 2001)

terms:

- [special year](#)