Algebraic Geometry and Integrable Systems related to String Theory

RIMS (Research Institute for Mathematical Sciences)
Kyoto University

June, 12 – June, 16, 2000

	Mon	Tues	Wed	Thurs	Fri
9:30–10:30	no talk	Ohta	Eliashberg	Morrison	Morrison
10:50–11:50	no talk	Faber	Faber	Behrend	Getzler
13:30–14:30	Fukaya	Ito	Morava	Bryan	no talk
14:50–15:50	Nakajima	Sugiyama	TBA	Leung	no talk
16:10–17:10	Saito	Yoshioka	TBA	Takahashi	no talk

June 12, (Monday)

- 13:30–14:30, Kenji Fukaya (Kyoto)

  Floer homology for family

- 14:50–15:50, Hiraku Nakajima (Kyoto):

  Moduli of sheaves on blown up surfaces

- 16:10–17:10, Masa-Hiko Saito (Kobe)

  Deformations of Okamoto–Painlevé pairs and Painlevé equations. (Joint works with Takebe and Terajima)

June 13, (Tuesday)

- 9:30–10:30, Hiroshi Ohta (Nagoya):

  Obstruction to and deformation of Lagrangian intersection Floer homology. (*Joint works with Fukaya, Kontsevich, Oh, Ohta, Ono*)

- 10:50–11:50 Carel Faber (Oklahoma State):

  Hodge integrals and Gromov-Witten theory I

- 13:30–14:30, Yukari Ito (Tokyo Metropolitan):

  McKay correspondence and T-duality

- 14:50–15:50, Ken-ichi Sugiyama (Chiba):

  Zeta functions of smooth manifolds and elliptic cohomology

- 16:10–17:10, Kota Yoshioka (Kobe):
  Brill-Noether problem for sheaves on K3 surfaces

June 14, (Wednesday)

- 9:30–10:30, Y. Eliashberg, (RIMS/Stanford):
  Few Examples from Symplectic Field Thoery
- 10:50–11:50, Carel Faber (Oklahoma State)
  Hodge integrals and Gromov-Witten theory II
- 13:30–14:30, Jack Morava (The Johns Hopkins)
  Topological gravity in dimensions two and four

June 15, (Thursday)

- 9:30–10:30, David Morrison (Duke):
  Theta-functions and six-manifolds (after Hopkins and Singer)
- 10:50–11:50, Kai Behrend (RIMS/British Columbia)
  Differential Graded Schemes
- 13:30–14:30, Jim Bryan (Tulane):
  Multiple coverings, BPS states, and integrality in Gromov-Witten theory
- 14:50–15:50, Naichung Conan Leung (Minnesota):
  Moduli of G-bundles over T^4 and hyperkahler manifolds
- 16:10–17:10, Atushi Takahashi (RIMS)
  Gromov–Witten Invariants and moduli of sheaves

June 16, (Friday)

- 9:30–10:30, David Morrison (Duke):
  Mirror symmetry and topology
- 10:50–11:50 Ezra Getzler (RIMS/Northwestern):
  Higher genus Frobenius manifolds

All questions and comments on this conference should be sent to the organizer, Masa-Hiko Saito. Limited amount of support for participants inside Japan will be available. Please write to Saito before May 29.

Department of Mathematics, Faculty of Science
Kobe University, Kobe, 657-8501, Japan
mhsaito@math.kobe-u.ac.jp
fax:+81-(0)78-803-5610
tel:+81-(0)78-803-5614