

乞揭示

Workshop

on

Categorical Algebra, Deformation Theory and Field Theory

カテゴリー代数, 変形理論, 場の理論

*Conference Room, 1st floor, Department of Mathematics,
Graduate school of Science, Kyoto University*
京都大学理学研究科数学教室 大講義室

January, 7 – January, 11, 2002

Organizers

Kenji Fukaya (Kyoto), Kyoji Saito (Kyoto/RIMS), Masa-Hiko Saito (Kobe)

	Mon	Tues	Wed	Thurs	Fri
10:00–11:00	no talk	Ciocan-Fontanine	Tsygan	Polishchuk	Saito
11:30–12:30	no talk	Takeda	Tsuchiya	Goto	Nakajima
14:30–15:30	Ooguri	Inaba	no talk	Soibelman	no talk
16:00–17:00	Fukaya	Kim	no talk	Namikawa	no talk

January 7, (Monday)

- 14:30–15:30, Hiroshi Ooguri (California Institute of Technology):
Quantization of the WZW model based on $SL(2, \mathbf{R})$
- 16:00–17:00, Kenji Fukaya (Kyoto):
Applicaiton of deformation theory and homotopical algebra to Mirror symmetry

January 8, (Tuseday)

- 10:00–11:00, Ionut Ciocan-Fontanine (University of Minnesota):
Derived moduli spaces
- 11:30–12:30, Yuichiro Takeda, (Tokyo Metropolitan):
Higher arithmetic K -theory
- 14:30–15:30, Michiaki Inaba, (Kyoto):
Moduli of complexes of coherent sheaves
- 16:00–17:00, Bumsig Kim, (Pohang University):
Equivariant Mirrors and Virasoro Conjecture for Flag Manifolds

January 9, (Wednesday)

- 10:00–11:00, Boris Tsygan, (Pennsylvania State):
TBA
- 11:30–12:30, Akihiro Tsuchiya, (Nagoya):
Conformal field theory associated with regular vertex operator algebra

January 10, (Thursday)

- 10:00–11:00, Alexander Polishchuk, (Boston):
A-infinity structures and non-commutative formal moduli
- 11:30–12:30, Ryuji Goto, (Osaka):
Moduli spaces of topological calibrations (Calabi-Yau, hyper-Kaehler, G_2 , $Spin(7)$ structure)
- 14:30–15:30, Yan Soibelman, (IHES):
TBA
- 16:00–17:00, Yoshinori Namikawa, (Osaka):
Counter-example to global Torelli for irreducible symplectic manifolds

January 11, (Friday)

- 10:00–11:00, Masa-Hiko Saito (Kobe):
TBA
- 11:30–12:30 Hiraku Nakajima (Kyoto):
Quiver varieties and quantum affine algebras

Program will be updated in the following homepage:

<http://www.math.kobe-u.ac.jp/HOME/mhsaito/fukaya2002.html>

All questions and comments on this conference should be sent to the organizers, Kenji Fukaya or Masa-Hiko Saito.

Kenji Fukaya
Department of Mathematics, Graduate school of Science
Kyoto University, Kyoto, 606-8502, Japan
fukaya@kusm.kyoto-u.ac.jp

Masa-Hiko Saito
Department of Mathematics, Faculty of Science
Kobe University, Kobe, 657-8501, Japan
mhsaito@math.kobe-u.ac.jp

The workshop is supported by Grant-in Aid for Scientific Research, Kiban-(S), *Moduli Spaces, Homotopy Algebras and Field theory*.