

**MSJ-IHÉS joint Workshop on “Noncommutativity”
15-18 November 2006**

Program

Wednesday, November 15

- 9h30-10h30 Maxim Kontsevich (IHÉS)
 “Noncommutative Dualities”
- 11h-12h Kaoru Ono (Hokkaido University)
 “Floer Theory for Lagrangian Submanifolds”
- 12h-13h Jean-Pierre Ramis (Université Paul Sabatier)
 “Differential Galois Theories and Integrability
 of Dynamical Systems”
- 14h-16h05 Sessions parallèles
14h-16h05 A Yuji Tanaka (Nagoya University)
 “Donaldson–Thomas instantons on Kähler threefolds”
 Yukiko Konishi (University of Tokyo)
 “Local Gromov–Witten invariants of cubic surfaces
 via nef toric degeneration”
 Satoshi Minabe (Nagoya University)
 “Flop invariance of the topological vertex”
 Takeo Nishinou (Kyoto University)
 “Disc counting via tropical curves”
 Miguel Bermudez (Institut de Mathématiques
 de Jussieu)
 “Noncommutative invariants and the classification of
 measured foliations”
- 14h-15h40 B Kazuhito Fujiwara (Osaka City University)
 “U(N) gauge model and partial breaking of N=2
 supersymmetry”
 Masahiro Kasatani (Kyoto University)
 “The quantum Knizhnik–Zamolodchikov equation
 and non-symmetric MacDonal polynomials”
 Hajime Nagoya (University of Tokyo)
 “Quantum Painlevé systems”
 Saeko Yamagata (Tohoku University)
 “On ideal boundaries of some Coxeter groups”

- 14h-15h40 C Takeshi Oota (Osaka City University)
 “Resolved Calabi–Yau cone from Kerr-NUT-AdS”
 Kiyonori Gomi (University of Tokyo)
 “An approach to finite-dimensional realizations
 of twisted K-theory”
 Takahiko Yoshida (University of Tokyo)
 “Twisted toric structures”
 Hiromasa Moriuchi (Osaka City University)
 “A table of θ -curves and handcuff graphs
 with up to seven crossings ”
- 16h30-17h30 Masatoshi Noumi (Kobe University)
 “Discrete Painlevé Equations and Special
 Functions”
- 17h30-18h30 Hitoshi Moriyoshi (Keio University)
 “A Generalization of the Atiyah–Singer
 Index Theorem on Foliations Associated
 to Type III Factors”

Thursday, November 16

- 9h-10h Ken-ichi Sugiyama (Chiba University)
 “An Iwasawa Conjecture for a Hyperbolic Threefold
 of a Finite Volume”
- 10h30-11h30 Philippe Biane (CNRS-École Normale Supérieure)
 “Random Walks on Noncommutative Spaces”
- 11h30-12h30 Yasuyuki Kawahigashi (University of Tokyo)
 “Conformal Field Theory and Operator Algebras”
- 14h-15h40 Sessions parallèles
- 14h-15h40 A Tetsuhiro Moriyama (University of Tokyo)
 “On the vanishing of the Rohlin invariant”
 Tomasz Maszczyk (Warsaw University)
 “Noncommutative geometry through monoidal
 categories”
 Yuichi Nohara (Nagoya University)
 “Lagrangian fibrations and theta functions”
 Mickaël Pichot
 “The space of triangle buildings”

- 14h-15h40 B Yuji Ogawa (Keio University)
 “UC hierarchy of B-type and an extension of Schurs
 Q-functions”
 Herve Oyono-Oyono (Universite de Clermont-Ferrand)
 “On fibrations with noncommutative fibers”
 Yoshinori Mizuno (Keio University)
 “An explicit arithmetic formula for the Fourier
 coefficients of Siegel–Eisenstein series of degree
 two with square free odd level”
 Georgy Sharygin (Institute of Theoretical and
 Experimental Physics)
 “X-complexes and pairing in Hopf-cyclic theory”
- 16h-17h Ryszard Nest (University of Copenhagen)
 “Homological Algebra in Bivariant K-Theory”

Friday, November 17

- 10h30-11h30 San Vũ Ngọc (Université Joseph Fourier)
 “Quantum Birkhoff Normal Forms and Semiclassical
 Analysis”
- 11h30-12h30 Stefan Vaes (Katholieke Universiteit Leuven)
 “Rigidity Phenomena for von Neumann Algebras
 and Group Actions”
- 14h30-15h30 Tetsuji Miwa (RIMS, Kyoto University)
 “Grassmann Structure in the XXZ Model”

Saturday, November 18

- 9h-10h Alan Weinstein (University of California)
 “Quantum and Symplectic Geometry of the Group
 S^1/\mathbf{Z} ”
- 10h-11h Hiroaki Kanno (Nagoya University)
 “Instanton Calculus and the Chiral Ring Relations
 in Supersymmetric Gauge Theories”
- 11h30-12h30 Alain Connes (Collège de France et IHÉS)
 “Noncommutative Geometry and Particle Physics”