

International Workshop on Noncommutative Geometry and Physics 2005

November 1–4, 2005

(Kawai Hall, Northern Aobayama Campus of Tohoku University)

Tuesday, November 1

9:30–11:00 H. Moriyoshi (Keio U.)
“Introduction to Gerbe, Twisted K-theory and Noncommutative Geometry”

11:00–11:30 Break

11:30–12:30 K. Gomi (Tokyo U.)
“Representations of gauge transformation groups of higher abelian gerbes”

Lunch

14:00–15:30 J. Mickelsson (KTH, Stockholm)
“Anomalies, gerbes, and twisted K-theory (I)”

15:30–16:00 Break

16:00–17:00 N. Miyazaki (Keio U.)
“Examples of Groupoids”

17:05–18:05 K. Ikeda (Keio U.)
“Compactification for the iso-level set of full Kostant-Toda lattice”

Wednesday, November 2

9:30–11:00 O. Lechtenfeld (Hannover U.)
“Noncommutative Solitons (I)”

11:00–11:30 Break

11:30–12:30 S. Ketov (Tokyo Metropolitan U.)
“Nonanticommutative deformation of complex geometry”

Lunch

14:00–15:30 J. Mickelsson (KTH, Stockholm)
“Anomalies, gerbes, and twisted K-theory (II)”

15:30–16:00 Break

16:00–17:00 T. Natsume (NIT)
”A quantization and an index theorem on hyperbolic spaces”

17:05–18:05 S. Wu (Colorado U.)
”Projective flatness in the quantisation of bosons and fermions”

Thursday, November 3

9:30–11:00 K. Ito (Tokyo Inst. of Tech.)
“Non(anti)commutative $\mathcal{N} = 2$ supersymmetric $U(N)$ gauge theory ”

11:00–11:30 Break

11:30–12:30 O. Lechtenfeld (Hannover U.)
“Noncommutative Solitons (II)”

Lunch

14:00–15:30 P. Bouwknegt (Australian Natl. U., Canberra)
“Generalized Geometry, Mirror Symmetry and T-duality”

15:30–16:00 Break

16:00–17:00 T. Inami (Chuo U.)
“Susy $CP(n)$ model on noncommutative superspace — It’s perturbative and non-perturbative properties”

17:05–18:05 T. Araki (Tohoku U.)
“Instantons in Non(anti)commutative Gauge Theory and Deformed ADHM Construction”

Friday, November 4

9:30–11:00 K. Ohta (RIKEN)
“Two Dimensional Yang-Mills Theory and Instanton Counting”

11:00–11:30 Break

11:30–12:30 N. Ikeda (Ritsumeikan U.)
“Deformation of Batalin-Vilkovisky structures”

Lunch

14:00–15:00 S. Kobayashi (Tokyo Metropolitan U.)
“Noncommutative Deformation and Drinfeld Twisted Symmetry”

15:05–16:05 A. Sako (Keio U.)
“ $\mathcal{N} > 1$ Supersymmetric Gauge Theories and Some Matrix Models”