

21st Nishinomiya-Yukawa memorial symposium on Theoretical Physics

Noncommutative Geometry and Quantum Spacetime in Physics

November 11–12, 2006 Nishinomiya
November 13–15, 2006 Kyoto

Saturday, November 11

9:00–10:00 Registration

10:00–10:10 Opening

10:10–11:10 Wess, Julius (MPI Munchen)
“Deformed Gravity Theories”

11:30–12:30 Kawai, Hikaru (Kyoto Univ.)
“Curved Spacetimes in Matrix Models”

— *Lunch* —

14:30–15:30 Landi, Giovanni (Trieste Univ.)
“Noncommutative instantons and twisted conformal symmetry”

15:50–16:50 Varghese Mathai (Univ. of Adelaide)
“T-duality in string theory via noncommutative geometry and beyond ”

17:10–18:10 Omori, Hideki (Tokyo Science Univ.)
“Deformation of expressions of elements of algebra and transcendental calculus”

Sunday, November 12

9:00–10:00 Balachandran, Aiyalam P. (Syracuse Univ.)
“Quantum Fields on the Moyal Plane”

10:20–11:20 Chong-Sun Chu (Durham Univ.)
"Time-dependent AdS/CFT duality and null singularity "

11:40–12:40 Grosse, Harald (Univ. of Vienna)
"Noncommutative Field Theory and Renormalization "

— *Lunch* —

14:30–15:30 Amelino-Camelia, Giovanni (Univ. Roma)
"A generalization of the Noether theorem for Lie-algebra noncommutativity and its implications in phenomenology"

15:50–16:20 Hasebe, Kazuki (Takuma national college of technology)
"Quantum Hall Effect based on SUSY noncommutative geometry"

16:20–16:50 Abe, Yasuhiro (CCNY)
"Construction of fuzzy S4 and its applications"

Monday, November 13

9:00–10:00 Freidel, Laurent (Perimeter Institute)
"3D Effective field theory from quantum gravity"

10:20–11:00 Aschieri, Paolo (Universita' del Piemonte Orientale)
"Gravity on noncommutative manifolds"

11:00–11:40 Tureanu, Anca (Univ. of Helsinki)
"Twisted Poincare symmetry and its implications on noncommutative quantum field theory"

11:50–12:20 Koch, Florian (MLU, Munchen)
"From Starproducts to Drinfeld-Twists: Present and Future Applications"

12:20–12:40 Fiore, Gaetano (Univ. Federico II, Napoli)
"On "full" twisted Poincare' covariance for QFT on Moyal-Weyl NC spaces"

Tuesday, November 14

9:00–10:00 R. Brandenberger (McGill Univ.)
"String Theory, Space-Time Non-Commutativity and Structure Formation"

10:20–11:00 Zoupanos, George (NTU)

“Higher Dimensional Unified Theories with Fuzzy Extra Dimensions”

11:00–11:30 Nishimura, Jun (KEK)

“Non-perturbative Study of Non-commutative U(1) Gauge Theory”

11:40–12:10 Tsuchiya, Asato (Osaka Univ.)

“Embedding various vacua of theories with SU(2—4) symmetry into the plane wave matrix model”

— *Lunch* —

13:30–14:30 Mathai Varghese (Univ. of Adelaide)

“D-branes and RR-fields on noncommutative manifolds”

14:50–15:50 Kapustin, Anton (Caltech)

“Topological D-branes and noncommutative geometry 1”

16:00–18:00 Poster session

18:30–20:30 Banquet

Wednesday, November 15

9:00–10:00 Kapustin, Anton (Caltech)

“Topological D-branes and noncommutative geometry 2”

10:20–11:20 Lechtenfeld, Olaf (Leibniz Univ. Hannover)

“Quiver Gauge Theories and Noncommutative Vortices”

11:40–12:10 Abou Zeid Mohab (Vrije Univ. Brussels)

“Symmetries, Conservation Laws and Gauge Invariant Operators in Noncommutative Field Theory”

12:10–12:40 Terashima, Seiji (YITP)
“Noncommutative D-brane and Tachyon”

— *Lunch* —

14:00–15:00 Lerda, Alberto (Universit‘a del Piemonte Orientale)
“Instanton calculus in closed string backgrounds”

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15:20–16:20 Yoneya, Tamiaki (Tokyo Univ.)
“Space-Time Uncertainty and Approaches to D-Brane Field Theory ”