Workshop on
Noncommutative Field Theory and Gravity
September 22-26

Schedule

Tuesday 22

09.00-09.05: Welcome
09.05-09:55: Schupp (lecture: Aspects of NCG in string theory I)
09:55-10.45: Schupp (lecture: Aspects of NCG in string theory II)

10:45-11.15: Coffee
11.15-12.05: Bakas (lecture: Aspects of NCG in string theory III)
12.05-12.45: Lizzi (Planck's Inconstant)
12:45-13:15   Dabrowski (The Standard Model in Noncommutative Geometry and Morita equivalence)

13.15-16.00: Lunch

16.00-16.40: Barrett (Quantum non-commutative geometry)
16.40-17.10: Dobrev (Invariant Differential Operators in Noncommutative Quantum Group Setting)

17.10-17.40: Coffee

17:40-18:10 O'Connor (Membrane Matrix models and non-perturbative checks of AdS/CFT)

18:10-18:30 J. Tekel (The phase diagram of the scalar field theory on the fuzzy sphere and the multi tra
18:30-18:50 Jonke (Sigma models for genuinely non-geometric backgrounds)

Discussion

Wednesday 23

09.00-09.50: Aschieri (lecture: Aspects of NC field theory I)
09.50-10.40: Aschieri (lecture: Aspects of NC field theory II)

10.40-11.10: Coffee
11.10-12.00: Hanada (lecture: Matrix models I)
12.00-12.40: Tsuchiya (Exponential and power-law expansion of the Universe from the type IIB matrix m

12.40-15.30: Lunch

15:30-15:50 Vagenas (Semiclassical corrections to black hole entropy and the generalized uncertainty p
15:50-16:20   Ishiki   (Matrix Geometry and Coherent States)
16.20-16.50: Coffee

QSPACE WG3 meeting

17:00-18:00 scientific discussion   (what can and should be done in next 4 years)
18:00-... organizational meeting WG3

20:00 Greek Night

Thursday 24

09.00-09:50: Hanada (lecture: Matrix models II)
09.50-10.40: Blaschke   (lecture: Aspects of NC field theory III)

10.40-11.10: Coffee
11.10-12.00: Rivasseau (lecture: Tensor Field Theory I)
12.00-12.40: Lewandowski (Non-commutative structure of spacetime from classical general relativity)
12:40-13:00 Sakellariadou (TBA)
Discussion

free afternoon

Friday 25

09.00-09.50:   Ramgoolam (lecture: Combinatorics of large N gauge theories, I)
09:50-10.40:   Ramgoolam (lecture: Combinatorics of large N gauge theories, II)

10.40-11.10: Coffee
11:10-12.00:   Rivasseau (lecture: Tensor Field Theory II)
12:00-12:40   Krajewski (Power counting and scaling for tensor models)
12.40-16.00: Lunch

16.00-16.40: Wulkenhaar (A solvable quantum field theory in 4 dimensions)
16:40-17:00 Martin (UV Quantum corrections in Unimodular Gravity)

17.00-17.30: Coffee
17:30-18:00   You (Tadpole contribution to the noncommutative photon self-energy)
18.00-18.30: Borowiec (Extended kappa-deformations and extended kappa-Minkowski spacetimes)
18:30-18:50 Toppan   ((Conformal Galilei Algebras and invariant PDEs cryptohermiticity and deformation
Discussion

Saturday 26

09:00-09:40 Meusburger (Hopf algebra gauge theory and Kitaev lattice models)
09:40-10:00: Barnes (Nonassociative geometry in the representation category of a quasi-Hopf algebra)
10.00-10.20: Kupryanow (Nonassociative Weyl star products)
10.20-10.40: Glaser   (Monte Carlo simulations of fuzzy space)

10.40-11.10: Coffee
11:10-11:30 Dobrski (Fedosov quantization and noncommutative gravity)
11:30-12:10 Iliopoulos (Gauge theories and non-commutative geometry)
Discussion, END