



4th VIENNA CENTRAL EUROPEAN SEMINAR
ON PARTICLE PHYSICS AND QUANTUM FIELD THEORY

November 30 - December 02, 2007

"COMMUTATIVE AND NONCOMMUTATIVE QUANTUM
FIELDS"

PROGRAM

Lecture Hall: "Großer Hörsaal Materialphysik"
Strudlhofgasse 4, 3rd floor, 1090 Vienna

Nov. 30, 2007, Friday

09:00 - 09:05	<i>H. Hüffel</i> (Vienna)	Opening Address
09:10 - 09:55	<i>V. Rivasseau</i> (Paris)	Why Renormalizable Noncommutative Quantum Field Theories?
10:00 - 10:45	<i>R. Szabo</i> (Edinburgh)	UV/IR Duality and Matrix Models of Noncommutative Field Theory
10:50 - 11:20		COFFEE
11:20 - 11:40	<i>A. Tanasa</i> (Bucuresti-Magurele)	Feynman amplitudes in renormalizable non-commutative quantum field theory
11:45 - 12:30	<i>P. Schupp</i> (Bremen)	Noncommutative Gravity
12:35 - 12:55	<i>H. Steinacker</i> (Vienna)	4D Gravity from noncommutative gauge theory
13:00 - 14:40		LUNCH
14:40 - 15:00	<i>J. Trampetic</i> (Zagreb)	Noncommutative gauge field theory
15:05 - 15:25	<i>J. Lukierski</i> (Wroclaw)	Towards noncommutative κ -deformed field theory
15:30 - 15:50	<i>C. Levy</i> (Marseille)	Spectral Action on Noncommutative Torus
15:55 - 16:15	<i>T. Krajewski</i> (Marseille)	Quantum field theory on a projective module
16:20 - 16:50		COFFEE
16:50 - 17:35	<i>D. Bahns</i> (Hamburg)	On renormalization in noncommutative field theory
17:40 - 18:00	<i>Ch. Dehne</i> (Leipzig)	On the path integral in non-commutative QFT
18:05 - 18:25	<i>A. de Goursac</i> (Münster)	Vacuum configurations for renormalizable noncommutative scalar field theory
18:30 - 19:00		DISCUSSION SESSION
19:30 - 20:30	<i>A.P. Balachandran</i> (Syracuse)	PUBLIC LECTURE: Spacetime and noncommutative physics

Dec. 01, 2007, Saturday

09:00 - 09:20	<i>W. Dybalski</i> (Göttingen)	Harmonic analysis of local operators in massless free field theory
09:25 - 09:45	<i>J.-Ch. Wallet</i> (Orsay)	Recent results in gauge theories on noncommutative Moyal spaces
09:50 - 10:10	<i>S. Weiß</i> (Freiburg)	Deformation Quantization of Principal Fibre Bundles
10:15 - 10:35	<i>W. Bietenholz</i> (Zeuthen)	Simulating $U(1)$ Gauge Theory on Non-Commutative Spaces
10:40 - 11:10		COFFEE
11:10 - 11:30	<i>A. Chatzistavradidis</i> (Athens)	Consistent Dimensional Reduction over Coset Spaces
11:35 - 11:55	<i>N. Nikolov</i> (Sofia)	Cohomological analysis of Epstein-Glaser renormalization
12:00 - 12:20	<i>S. Kürçüoğlu</i> (Hannover)	Quantum Aspects of the Noncommutative Sine-Gordon Model
12:25 - 12:45	<i>P. Martinetti</i> (Roma)	Metric interpretation of gauge fields in noncommutative geometry
12:50 - 14:25		LUNCH
14:25 - 14:45	<i>M. Dimitrijevic</i> (Alessandria)	Field Theory on Nonanticommutative Superspace
14:50 - 15:10	<i>M. Kreuzer</i> (Vienna)	Non-commutativity and effective actions in curved space-time
15:15 - 16:00	<i>Sergio Doplicher</i> (Rome)	Quantum Spacetime and Noncommutative Geometry
16:05 - 16:35		COFFEE
16:35 - 17:20	<i>G. Lechner</i> (Vienna)	Wedge-local Quantum Fields and Interaction
17:25 - 18:10	<i>D. Buchholz</i> (Göttingen)	Local and Covariant Deformations of Wedge Algebras in Quantum Field Theory
18:15 - 18:45		DISCUSSION SESSION
18:45 - 19:15		POSTER SESSION
19:30 - ...		RECEPTION

Dec. 02, 2007, Sunday

09:30 - 10:15	<i>S. Hollands</i> (Cardiff)	Quantum Fields, Curvature, and Cosmology
10:20 - 11:05	<i>P. Roche</i> (Montpellier)	Chern-Simons Quantization of 2+1 Gravity
11:10 - 11:40		COFFEE
11:40 - 12:00	<i>A. Tureanu</i> (Helsinki)	Exact Results in Noncommutative QFT: CPT and Spin-Statistics Theorems
12:05 - 12:50	<i>M. Chaichian</i> (Helsinki)	Twisted Poincare Symmetry of Noncommutative QFT
12:55 - 13:05	<i>H. Hüffel</i> (Vienna)	Closing Remarks

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