Programme on
“Higher Structures in String Theory and Quantum Field Theory”
November 16 - December 18, 2015

organized by
Harald Grosse (U Vienna), Danny Stevenson (U Adelaide), Richard J. Szabo (Heriot-Watt U)

Workshop II

Main workshop
December 7 – 11, 2015

• Monday, December 7, 2015
  09:30 – 10:00 Registration
  10:00 – 11:00 Jonathan Rosenberg
  *Duality of twisted orientifolds*
  11:00 – 11:30 coffee / tea break
  11:30 – 12:30 David Berman
  *Aspects of Double and Exceptional Field Theory*
  12:30 – 14:00 lunch break
  14:00 – 15:00 Jouko Mickelsson
  *Locally smooth group cohomology, gerbes and central extensions*
  15:00 – 15:30 break
  15:30 – 16:30 Patricia Ritter
  *Strong homotopy algebras of local observables (shlalos) and Vinogradov algebroids*

• Tuesday, December 8, 2015
  Public Holiday – no talks!

• Wednesday, December 9, 2015
  10:00 – 11:00 Maxime Zabzine
  *Integrals, matrix models and deformed Virasoro algebra*
  11:00 – 11:30 coffee / tea break
  11:30 – 12:30 Chris Rogers
  *Equivariant cohomology and homotopy moment maps*
  12:30 – 14:00 lunch break
14:00 – 15:00 Erik Plauschinn
Collective T-duality transformations

15:00 – 15:30 break

15:30 – 16:30 Andreas Deser
Star products on graded manifolds and deformations to Courant algebroids from string theory

• Thursday, December 10, 2015

10:00 – 11:00 Dieter Lüst
Some world sheet aspects of double field theory and closed string non-commutativity

11:00 – 11:30 coffee / tea break

11:30 – 12:30 Christoph Schweigert
State sum constructions of extended topological field theories and defects

12:30 – 14:00 lunch break

14:00 – 15:00 Keith Hannabuss
T-duality: geometry, C*-algebras, and tensor categories

15:00 – 15:30 break

15:30 – 16:30 Guo Chuan Thiang
T-duality, K-theory, and bulk-boundary correspondence for topological phases

17:00 – 18:15 Daniel Huybrechts: Erwin Schrödinger Lecture

• Friday, December 11, 2015

10:00 – 11:00 Peter Prešnajder
From Noncommutative Quantum Mechanics towards Noncommutative QFT

11:00 – 11:30 coffee / tea break

11:30 – 12:30 Konrad Waldorf
String structures and supersymmetric sigma models

12:30 – 13:00 break

13:00 – 14:00 Urs Schreiber
Generalized cohomology of M2/M5-branes

All talks take place at the ESI, Boltzmann Lecture Hall!