

**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!**