

**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 Glasgow), Richard J. Szabo (Heriot-Watt U)

Workshop I

Instructional workshop for students and junior researchers

Week 2: November 30 - December 4, 2015

• **Monday, November 30, 2015**

09:30 – 10:00 **Registration**

10:00 – 11:00 **Urs Schreiber**

Prequantum field theory and Green-Schwarz WZW terms (I)

11:00 – 11:30 *coffee / tea break*

11:30 – 12:30 **Mathai Varghese**

T-duality via noncommutative geometry and applications (I)

• **Tuesday, December 1, 2015**

10:00 – 11:00 **Mathai Varghese**

T-duality via noncommutative geometry and applications (II)

11:00 – 11:30 *coffee / tea break*

11:30 – 12:30 **Urs Schreiber**

Prequantum field theory and Green-Schwarz WZW terms (II)

• **Wednesday, December 2, 2015**

10:00 – 11:00 **Mathai Varghese**

T-duality via noncommutative geometry and applications (III)

11:00 – 11:30 *coffee / tea break*

11:30 – 12:30 **Peter Schupp**

Beyond noncommutative geometry (I)

12:30 – 15:00 *lunch break*

15:00 – 16:00 **Shahn Majid**

Reconstruction and quantisation of Riemannian manifolds

- **Thursday, December 3, 2015**

10:00 – 11:00 **Peter Schupp**

Beyond noncommutative geometry (II)

11:00 – 11:30 *coffee / tea break*

11:30 – 12:30 **Urs Schreiber**

Prequantum field theory and Green-Schwarz WZW terms (III)

12:30 – 15:00 *lunch break*

15:00 – 16:00 **Shahn Majid**

Cosmological constant from quantum spacetime

- **Friday, December 4, 2015**

10:00 – 11:00 **Peter Schupp**

Beyond noncommutative geometry (III)

11:00 – 11:30 *coffee / tea break*

11:30 – 12:30 **Urs Schreiber**

Prequantum field theory and Green-Schwarz WZW terms (IV)

12:30 – 15:00 *lunch break*

15:00 – 16:00 **Shahn Majid**

Hodge operator in noncommutative geometry as a braided Fourier transform

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