



DVR 0065528

## ESI Programme on "K-Theory and Quantum Fields"

May 21 - July 27, 2012

**Instructional Workshop** 

Tuesday, May 29 - June 1

Organized by: Matt Ando, Alan Carey, Harald Grosse, Jouko Mickelsson

Monday, May 28: bank holiday, ESI administration is closed

• Tuesday, May 29

**09:30 – 10:30:** Urs Schreiber

Twisted differential structures in string theory I

**10:30 – 11:00:** coffee break

**11:00 – 12:00:** Frederic Rochon

K-duality on stratified spaces I

12:00 - 14:00: lunch break

**14:00 – 15:00:** Daniel Stevenson

An introduction to twisted K-theory and higher structures I

**15:00 – 16:00:** break

**16:00 – 17:00:** tutorial

• Wednesday, May 30

**09:30 – 10:30:** Urs Schreiber

Twisted differential structures in string theory II

10:30 - 11:00: coffee break

11:00 - 12:00: Daniel Stevenson

An introduction to twisted K-theory and higher structures II

**12:00 – 14:00:** lunch break

**14:00 – 15:00:** John Francis

Factorisation algebras and homology I

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## • Thursday, May 31

**09:30 – 10:30:** John Francis

Factorisation algebras and homology II

**10:30 – 11:00:** coffee break **11:00 – 12:00:** Urs Schreiber

Twisted differential structures in string theory III

12:00 – 14:00: lunch break 14:00 – 15:00: Frederic Rochon *K-duality on stratified spaces II* 16:00 – 17:00: Matthias Lesch

A gluing formula for the analytic torsion on singular spaces

## • Friday, June 1

**09:30 – 10:30:** Urs Schreiber

Twisted differential structures in string theory IV

**10:30 – 11:00:** coffee break **11:00 – 12:00:** Alan Carey *∼Analytic K-homology* 

16:00 - 17:00: Matthias Lesch

Regular operators in Hilbert  $C^*$ -modules

## All lectures take place in the ESI Boltzmann Lecture Hall