



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
Regular operators in Hilbert C<sup>\*</sup>-modules

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 *A gluing formula for the analytic torsion on singular spaces* 

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