



DVR 0065528

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

## May 21 - July 27, 2012

**Advanced Instructional Lectures and Research Workshop** 

## June 4 - 8

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

Monday, June 4
09:30 – 10:30: Bai-Ling Wang Twisted geometric cycles and twisted K-homology I
10:30 – 11:00: coffee break
11:00 – 12:00: Sylvie Paycha The Gauss-Bonnet theorem for the non-commutative torus in the light of pseudodifferential calculus
12:00 – 14:00: lunch break
14:00 – 15:00: Henri Lipponen On noncommutative BRST-complex and superconnection character forms

Tuesday, June 5
09:30 – 10:30: Bai-Ling Wang Twisted geometric cycles and twisted K-homology II
10:30 – 11:00: coffee break
11:00 – 12:00: Paul Baum Atiyah-Singer Revisited

Wednesday, June 6
09:30 – 10:30: Bai-Ling Wang
Twisted geometric cycles and twisted K-homology III
10:30 – 11:00: coffee break
11:00 – 12:00: Paul Baum
Beyond Ellipticity

page 1 of 2

 Thursday, June 7 (Bank Holiday) 09:30 – 10:30: Dan Freed Twisted K-theory and superstrings I 10:30 – 11:00: coffee break 11:00 – 12:00: Dan Freed Twisted K-theory and superstrings II

Friday, June 8
09:30 – 10:30: Dan Freed
Twisted K-theory and superstrings III
10:30 – 11:00: coffee break
11:00 – 12:00: Dan Freed
Twisted K-theory and superstrings IV

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