

ESI Programme on “K-Theory and Quantum Fields”

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

May 21 - July 27, 2012

Research Workshop, June 11 -15

- **Monday, June 1**

09:30 – 10:30 Christoph Schweigert

Bicategories for boundary conditions and for surface defects in 3-d TFT

10:30 – 11:00: coffee break

11:00 – 12:00: Dan Freed

Topological phases of matter and K-theory

- **Tuesday, June 12**

09:30 – 10:30: Constantin Teleman

Gauge theory, mirror symmetry, and Langlands duality

10:30 – 11:00: coffee break

11:00 – 12:00: Mahmoud Zeinalian

Equivariant holonomy and idfferential K-theory

- **Wednesday, June 13**

09:30 – 10:30: Urs Schreiber

Twisted geometric infinity-bundles

10:30 – 11:00: coffee break

11:00 – 12:00: David Gepner

The relative Brauer group of real K-theory

All lectures take place in the ESI Boltzmann Lecture Hall

page 1 of 2

Research Workshop, June 11 - 15

- **Thursday, June 14**

09:30 – 10:30: Steve Rosenberg

Residue Chern classes and Chern-Simons classes

10:30 – 11:00: coffee break

11:00 – 12:00: Jesse Wolfson

A Coherent Framework for the Study of Lie n -Groupoids and their Extensions

- **Friday, June 15**

09:30 – 10:30: Ezra Getzler

Higher analytic stacks

10:30 – 11:00: coffee break

11:00 – 12:00: Thomas Nikolaus

Smooth models for the String group

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