

## 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 11**

**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

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## 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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