

Programme on
“Topological Phases of Quantum Matter”

organized by

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Schedule of Talks: August 25 – 29, 2014:

• **Monday, August 25, 2014**

10:30 – 11:00 *Coffee/tea*

11:00 – 12:30 **Zheng-Cheng Gu**

Classification of symmetry-protected topological phases in interacting fermion and boson systems

12:30 – 14:00 *Lunch break*

14:00 – 15:30 **Jürg Fröhlich**

The growth of cosmic magnetic fields

• **Tuesday, August 26, 2014**

10:30 – 11:00 *Coffee/tea*

11:00 – 12:30 **Hermann Schulz-Baldes**

Indices of Fredholm operators with symmetries

12:30 – 14:00 *Lunch break*

14:00 – 15:30 **Abhishek Roy**

Defects in lattice anyon models

• **Wednesday, August 27, 2014**

10:30 – 11:00 *Coffee/tea*

11:00 – 12:30 **Duncan Haldane**

Quantum geometry of fractional quantum Hall fluids and other topological matter

12:30 – 14:00 *Lunch break*

14:00 – 15:30 **Jerome Dubail**

Tensor network states and chiral states of matter

- **Thursday, August 28, 2014**

10:30 – 11:00 *Coffee/tea*

11:00 – 12:30 **Max Lein**

An exhaustive classification of photonic topological insulators

12:30 – 14:00 *Lunch break*

14:00 – 15:30 **Hong-Hao Tu**

Projected entangled-pair states for chiral topological phases

- **Friday, August 29, 2014**

10:30 – 11:00 *Coffee/tea*

11:00 – 12:30 **Alan Carey**

Spectral flow and operators with essential spectrum

12:30 – 14:00 *Lunch break*

14:00 – 15:30 **Xiao-Liang Qi**

Layer construction of 3D topological states and string braiding statistics

All lectures take place at the ESI, Boltzmann Lecture Hall