Tentative schedule

Wednesday 9 december

13:00-13:30	Welcome - Coffee
13:30-15:00	Shoucheng Zhang, Models, Materials and Experiments of Topological Insulators.
15:00-16:30	Hartmut Buhmann, HgTe quantum wells and the quantum spin Hall effect.
16:30-17:00	Coffee
17:00-17:45	Carlo Beenakker, Spintronics in inverted-gap semiconductors.
17:45-19:15	Joel Moore, Introduction to Berry phases in solids.
19:45	Buffet

Thursday 10 december

08:30-10:00	Hartmut Buhmann, Spin Hall and quantum spin Hall effect.
10:00-10:30	Coffee
10:30-12:00	Shoucheng Zhang, The General Theory of Topological Insulators.
12:00-13:00	Zahid. Hasan, Introduction to quantum Hall-like effects without magnetic field: Mini Tutorial.
13h00-14h30	Lunch
14:30-16:00	Ashvin Vishwanath, Topological Band Insulators 1: Models, topological metals and defects.
16:00-16:45	Carlo Beenakker, Topological Anderson insulators.
16:45-17:15	Coffee
17:15-18:30	Bjoern. Trauzettel Phase-coherent transport in 2D topological insulators.
18:30-19:15	Chao-xing Liu Realization of three dimensional and two dimensional topological insulators in Bi2Se3 type of materials.

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Friday 11 december 09

08:30-10:00 Joel Moore,

Three-dimensional topological insulators and related materials.

10:00-10:30 Coffee

10:30-12:00 Carlo Beenakker,

Majorana fermions in topological insulators.

12:00-13:00 Zahid Hasan,

Experimental Realization of 3D Topological Insulators: Spin-Momentum Locking and

absence of backscattering.

13:00 - 14:30 Lunch

14:30-15:30 M. Zahid Hasan,

Experimental Roadmap toward topological quantum computing: Superconductivity and

Magnetic impurity/proximity effects in a Topological Insulator Matrix.

15:30-17:00 Ashvin Vishwanath,

Topological Band Insulators 2: Topological defects (contd), correlation

effects and perspectives.