

EPQHS4 Schedule

Time	Thursday, 23 June	Friday, 24 June	Saturday, 25 June
8:50- 9:00	Opening Address		
9:00- 9:40	<u>S-01</u> K. von Klitzing	<u>S-10</u> M. Heiblum	<u>S-16</u> R. L. Willett
9:40-10:20	<u>S-02</u> A. Pinczuk	<u>S-11</u> V. Venkatachalam	<u>S-17</u> A. Tsukazaki
10:20-10:35	Break, Group Photo	Break	<u>S-18</u> S. Mandal
10:35-11:15	<u>S-03</u> X. G. Wen	<u>S-12</u> P. Cadden-Zimansky	11:00 Break
11:15-11:55	<u>S-04</u> J. Xia	<u>S-13</u> M. Deshmukh	<u>O-2</u> K. Yang
			<u>O-3</u> C. Zhang
11:55-14:00	Lunch	Lunch	Lunch
14:00-14:40	<u>S-05</u> B. A. Bernevig	<u>S-14</u> K. Sun	<u>O-4</u> N. Regnault
			<u>O-5</u> Y. Q. Li
14:40-15:20	<u>S-06</u> X. Chen	<u>S-15</u> K. Park	<u>O-6</u> L. Tiemann
			<u>O-7</u> P. Bonderson
15:20-15:30	Break	Break	Break
15:30-16:10	<u>S-07</u> T. Hanaguri	<u>O-1</u> Y. P. Chen	<u>O-8</u> R. Sabo
16:10-16:50	<u>S-08</u> A. Singha	15:50-18:00 Poster Session	<u>O-9</u> A. Finck
16:50-17:30	<u>S-09</u> I. Bar-Joseph		
18:00-	Banquet		

Locations

Workshop Site	Press Hall, Ying Jie Conference Center, Peking University
Poster	Press Hall, Ying Jie Conference Center. Poster boards are available.
Lunch	Nong Yuan Cafeteria, Peking University
Banquet	Bai Jia Da Yuan Restaurant

Scientific Program

Thursday, 23 June

8:50- 9:00 OPENING ADDRESS

9:00-11:55 INVITED SESSION 1

S-01 **Klaus von Klitzing (Max Planck Institute for Solid State Research, Germany)**

9:00 30 years quantum Hall effects

S-02 **Aron Pinczuk (Columbia University, USA)**

9:40 Low-lying Excitations in the Second (N=1) Landau Level

10:20-10:35 BREAK AND GROUP PHOTO

10:35-11:55 INVITED SESSION 2

S-03 **Xiao-Gang Wen (Massachusetts Institute of Technology, USA)**

10:35 Symmetry protected topological orders and the cohomology class of their symmetry group

S-04 **Jing Xia (California Institute of Technology, USA)**

11:15 Competing Phases of 2D Electrons at $\nu = 5/2$ and $7/3$

11:55-14:00 LUNCH

14:00-17:30 INVITED SESSION 3

S-05 **B. Andrei Bernevig (Princeton University, USA)**

14:00 Fractional Chern Insulator

S-06 **Xi Chen (Tsinghua University, China)**

14:40 STM studies of topological insulators grown by MBE

15:20-15:30 BREAK

15:30-16:10 INVITED SESSION 4

S-07 **Tetsuo Hanaguri (RIKEN Advanced Science Institute, Japan)**

15:30 Landau quantization of Dirac fermions in a topological insulator

S-08 **Achintya Singha (Bose Institute, India)**

16:10 Hubbard-Mott physics of electrons in an artificial semiconductor lattice

S-09 **Israel Bar-Joseph (The Weizmann Institute of Science, Israel)**

16:50 Optical probing of the spin polarization at $\nu=5/2$

Friday, 24 June

9:00-11:55 INVITED SESSION 5

S-10 **M. heiblum (The Weizmann Institute of Science, Israel)**

9:00 observation of neutral modes via shot noise measurements

S-11 **Vivek Venkatachalam (Harvard University, USA)**

9:40 Local Thermometry of the $\nu=1$ and $2/3$ Quantum Hall Edges

10:20-10:35 BREAK

10:35-11:55 INVITED SESSION 6

S-12 **Paul Cadden-Zimansky (Columbia University, USA)**

10:35 Interaction-Driven Quantum Hall States in Graphene

S-13 **Mandar Deshmukh (Tata Institute of Fundamental Research, India)**

11:15 Suspended graphene electromechanics in quantum Hall regime

11:55-14:00 LUNCH

14:00-17:30 INVITED SESSION 7

S-14 **Kai Sun (University of Maryland College Park, USA)**

14:00 Topological nearly-flat band and fractional quantum Hall effect without Landau levels

S-15 **Kwon Park (Korea Institute for Advanced Study, Korea)**

14:40 Superconducting order parameter for the even-denominator fractional quantum Hall effect

15:20-15:30 BREAK

15:30-18:00 CONTRIBUTED SESSION 1

O-1 **Yong P. Chen**

15:30 Observation of Bulk quantum Hall effect in highly-doped Bi₂Se₃

15:50 Lightning Talks by Poster Presenters (5 min each)

17:00 Poster Viewing

Saturday, 25 June

9:00-11:00 INVITED SESSION 8

S-16 **Robert L. Willett (Bell laboratories, Alcatel-lucent, USA)**

9:00 Evidence for non-Abelian quasiparticles at filling factor $5/2$

S-17 **A. Tsukazaki (The University of Tokyo, Japan)**

9:40 Quantum Hall effect in MgZnO/ZnO heterostructures

S-18 **Sudhansu Mandal (Indian Association for the Cultivation of Science, India)**

10:20 Novel Collective Modes in Fractional Quantum Hall Effect

11:00-11:15 BREAK

11:15-11:55 CONTRIBUTED SESSION 2

O-2 **Kun Yang**

11:15 Fractionalization via Z₂ Gauge Fields at a Cold Atom Quantum Hall Transition

O-3 **Chi Zhang**

11:35 Unusual Conductivity of a 2D Hole Wigner Crystal in Ultrahigh Magnetic Fields

11:55-14:00 LUNCH

14:00-15:20 CONTRIBUTED SESSION 3

O-4 **Nicolas Regnault**

14:00 Entanglement spectra of fractional quantum Hall states

O-5 **Yongqing Li**

14:20 Tunable surface conductivity in topological insulator thin films

O-6 **Lars Tiemann**

14:40 The spin polarization of the $\nu=5/2$ fractional quantum Hall state

O-7 **Parsa Bonderson**

15:00 Plasma Analogy and non-Abelian Statistics for Ising-type Quantum Hall States

15:20-15:30 BREAK

15:30-16:10 CONTRIBUTED SESSION 4

O-8 **Ron Sabo**

15:30 Search for Fractional statistics in Cross-Correlation Measurements at $\nu=1/3$

O-9 **Aaron Finck**

15:50 Bulk Exciton Transport in a Bilayer Quantum Hall System

Poster Session (15:50-18:00, 24 June)

- P1 **Zheng Liu**
Stable nontrivial Z₂ topology in ultrathin Bi (111) films: a first-principles study
- P2 **Alexander Seidel**
Gapless excitations in the Haldane-Rezayi state: The thin torus limit
- P3 **Luca Chirolli**
Engineered coupling of spin-resolved topologically protected states of a quantum Hall insulator
- P4 **Zhou Li**
Impact of spin orbit coupling on polarons
- P5 **Stefan Heun**
Spectral analysis of inter-channel scattering in the QH regime
- P6 **Itamar Gurman**
Mapping the Interference Behavior of the an Electronic Mach-Zehnder Interferometer in the Integer Quantum Hall Effect Regime
- P7 **P S Bisht**
Quantum Hall Effect and Electron Monopole Duality
- P8 **Lei Wang**
Charge-density-wave and topological transitions in interacting Haldane model
- P9 **Jiangchai Chen**
Effect of disorder on longitudinal resistance of a graphene p-n junction in the quantum Hall regime