

International School

Anyon Physics of Ultracold Atomic Gases

Freie Universität Berlin (Germany), September 24 – 28, 2013

Tuesday, September 24

- 9:00-10:00 **Hans Hansson (Stockholm, Sweden):**
Non-abelian quantum statistics
- 10:00-10:15 *Discussion*
- 10:15-10:45 **Coffee Break**
- 10:45-11:45 **Václav Zatloukal (Berlin – Germany):**
Basic properties of anyons – Part I
- 11:45-12:00 *Discussion*
- 12:00-14:00 **Lunch**
- 14:00-15:00 **Václav Zatloukal (Berlin – Germany):**
Basic properties of anyons – Part II
- 15:00-15:15 *Discussion*
- 15:15-15:45 **Coffee Break**
- 15:45-16:45 **Avinash Khare (Pune – India)**
Quantum statistics of anyons – Part I
- 16:45-17:00 *Discussion*

Wednesday, September 25

- 9:00-10:00 **Avinash Khare (Pune – India)**
Quantum statistics of anyons – Part II
- 10:00-10:15 *Discussion*
- 10:15-10:45 **Coffee Break**
- 10:45-11:45 **Marco Roncaglia (Torino – Italy):**
Anyons in 1D optical lattices – Part I
- 11:45-12:00 *Discussion*
- 12:00-14:00 **Lunch**

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14:00-15:00	Avinash Khare (Pune – India) Quantum statistics of anyons – Part III
15:00-15:15	<i>Discussion</i>
15:15-15:45	Coffee Break
15:45-16:45	Susanne Viefers (Oslo, Norway) Quantum Hall physics in rotating Bose-Einstein condensates – Part I
16:45-17:00	<i>Discussion</i>

Thursday, September 26

9:00-10:00	Marco Roncaglia (Torino – Italy): Anyons in 1D optical lattices – Part II
10:00-10:15	<i>Discussion</i>
10:15-10:45	Coffee Break
10:45-11:45	Susanne Viefers (Oslo, Norway) Quantum Hall physics in rotating Bose-Einstein condensates – Part II
11:45-12:00	<i>Discussion</i>
12:00-14:00	Lunch
14:00-20:00	Excursion
20:00	Dinner

Friday, September 27

9:00-10:00	André Eckardt (Dresden, Germany): Dynamical generation of gauge fields in 2D optical lattices – Part I
10:00-10:15	<i>Discussion</i>

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- 10:15-10:45 *Coffee Break*
- 10:45-11:45 **Jiannis Pachos (Leeds – United Kingdom):**
Introduction to topological quantum computation – Part I
- 11:45-12:00 *Discussion*
- 12:00-14:00 **Lunch**
- 14:00-15:00 **André Eckardt (Dresden, Germany):**
Dynamical generation of gauge fields in 2D optical lattices
– Part II
- 15:00-15:15 *Discussion*
- 15:15-15:45 *Coffee Break*
- 15:45-16:45 **Jiannis Pachos (Leeds – United Kingdom):**
Introduction to topological quantum computation – Part II
- 16:45-17:00 *Discussion*

Saturday, September 28

- 9:00-10:00 **Jiannis Pachos (Leeds – United Kingdom):**
Introduction to topological quantum computation – Part III
- 10:00-10:15 *Discussion*
- 10:15-10:45 *Coffee Break*
- 10:45-11:45 **Bakhodir Abdullaev (Tashkent – Uzbekistan):**
Ground-state energy of charged anyon gases
- 11:45-12:00 *Discussion*
- 12:00-14:00 **Lunch**

