Second International UQUAM Workshop, Innsbruck, 21-24 September 2015

Programme

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<td>Thierry Giamarchi</td>
<td>Eugene Demler</td>
<td>Francesca Ferlaino</td>
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<td>9:45-10:15</td>
<td>Traci Li</td>
<td>Johannes Zeiher</td>
<td>Jan Budich</td>
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<td>10:15-10:45</td>
<td>Coffee Break</td>
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<td>10:45-11:30</td>
<td>Markus Oberthaler</td>
<td>Sylvain Nascimbene</td>
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<td>11:30-12:15</td>
<td>Lukas Sieberer</td>
<td>Mark Fischer [11:30-12:00]</td>
<td>Ahmed Omran</td>
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<td>12:15-15:00</td>
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<td>Buffet at the hotel [12:00-13:00]</td>
<td>Lunch Break</td>
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<td>15:00-15:45</td>
<td>Zoran Hadzibabic</td>
<td>UQUAM Review Session</td>
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<td>15:45-16:15</td>
<td>Laura Corman</td>
<td>[13:00-17:15]</td>
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<td>16:45-17:30</td>
<td>Daniel Podolsky</td>
<td>Poster Flash Presentation</td>
<td>Dima Abanin</td>
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<td>17:30-18:00</td>
<td>Catherine Laflamme</td>
<td>[17:15-17:45]</td>
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<td>18:00-19:30</td>
<td>Poster Session [17:45-19:30]</td>
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Monday, Sep. 21st

8:30-9:00: Registration at the Hotel Grauer Bär

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9:00 – 10:15: First session

9:00-9:45: Transport and out of equilibrium phenomena in cold atomic gases

Thierry Giamarchi (University of Geneva)

9:45-10:15: Resolving multiband geometry using Wilson lines

Tracy Li (LMU)

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10:15-10:45: Coffee Break

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10:45 – 12:15: Second session

10:45-11:30: Two component quantum-gas mixtures – spin dynamics and immersed quantum systems
Markus Oberthaler (University of Heidelberg)

11:30-12:15: Order, superfluidity, and vortex unbinding in two-dimensional driven-dissipative condensates
Lukas Sieberer (Weizmann)

12:15-15:00: Lunch Break

15:00 – 16:15: Third session

15:00-15:45: Non-equilibrium dynamics of a BEC in a box potential
Zoran Hadzibabic (University of Cambridge)

15:45-16:15: Condensation for rings of atoms
Laura Corman (LKB Paris)

16:15-16:45: Coffee Break

16:45 – 18:00: Fourth session

16:45-17:30: TBA
Daniel Podolsky (Technion)

17:30-18:00: CP(N−1) Quantum Field Theories with Alkaline-Earth Atoms in Optical Lattices
Catherine Laflamme (ITP and IQOQI, Innsbruck)
Tuesday, Sep. 22nd

9:00 – 10:15: First session

9:00-9:45: TBA
Eugene Demler (Harvard University)

9:45-10:15: Rydberg Dressing with p-States
Johannes Zeiher (MPQ Garching)

10:15-10:45: Coffee Break

10:45 – 12:00: Second session

10:45-11:30: Dynamic optical lattices of sub-wavelength spacing for ultracold atoms.
Sylvain Nascimbene (LKB Paris)

11:30-12:00: The role of SU(2) symmetry for many-body localization
Mark Fischer (Weizmann)

12:00-13:00: Lunch Break

13:00 – 17:15: UQUAM Review session

13:00-14:00: Open panel review talks
All UQUAM members

14:00-14:30: Meeting with phd students and postdocs
All phd students and post-docs

14:30-15:00: Coffee break
15:00-17:00: Meeting with PIs
All PIs

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17:15 – 19:30: Poster session

17:15-17:45: Flash presentation (one minute per poster)

17:45-19:30: Poster session
Wednesday, Sep. 23rd

9:00 – 10:15: First session

9:00-9:45: The Fascination of Lanthanides for Ultracold Quantum Physics
  F. Ferlaino (IQOQI and IEP Innsbruck)

9:45-10:15: Synthetic helical liquids with cold atoms in optical lattices
  Jan Budich (ITP and IQOQI, Innsbruck)

10:15-10:45: Coffee Break

10:45 – 12:15: Second session

10:45-11:30: Strongly Interacting Fermi Gases of Atoms and Molecules
  Martin Zwierlein (MIT)

11:30-12:15: A microscope for Fermi gases
  Ahmed Omran (MPQ Garching)

12:15-15:00: Lunch Break

15:00 – 16:15: Third session

15:00-15:45: Dynamics of entanglement in trapped ion arrays
  Ana María Rey (JILA, Boulder)

15:45-16:15: Can a random harmonic chain thermalize strongly localized particles in one dimension?
  Sumilan Banerjee (Weizmann)
16:15-16:45: Coffee Break

16:45 – 18:00: Fourth session

16:45-17:30: Many-body localization and periodically driven systems
Dima Abanin (University of Geneva)

17:30-18:00: Bose-Einstein condensation in a gas of spin-1 sodium atoms
Camille Frapolli (LKB Paris)

19:30: Social dinner at the Bierstindl
Thursday, Sep. 24th

9:00 – 10:15: First session

9:00-9:45: TBA

M. Köhl (University of Bonn)

9:45-10:15: Parity Adiabatic Quantum Computing

Wolfgang Lechner (ITP and IQOQI, Innsbruck)

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10:15-10:45: Coffee Break

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10:45 – 13:00: Second session

10:45-11:30: Designing Quantum Spin Models with Laser-Dressed Rydberg Atoms

Alexander Glätzle (ITP and IQOQI, Innsbruck)

11:30-12:00: Coherent coupling of a BEC on an optical clock transition

Jérôme Beugnon (LKB Paris)

12:00-12:30: Strongly interacting Ytterbium atoms in optical lattices

Christian Hofrichter (LMU Munich)

12:30-13:00: Weak and strong topological invariants in a driven 2D Kitaev model

Mykola Maksymenko (Weizmann)