

SFB TRR 21: 10th International Workshop

Control of quantum correlations in tailored matter: Common perspectives of mesoscopic systems and quantum gases

03 – 06 April 2017 Villa Vigoni, Loveno di Menaggio, Italy

- Programme -

Arrival: Monday, 03 April 2017 (before dinner)

Departure: Thursday, 06 April 2017 (after lunch)

Monday, 03 April 2017

07:00 – 07:30 pm Welcome Drinks

07:30 – 09:30 pm Dinner

Tuesday, 04 April 2017

07:30 – 08:45 am	Breakfast at Grand Hotel Victoria
07.30 - 00.45 alli	Diedkiasi ai Gianu notei victoria

08:00 – 09:00 am Breakfast at Villa Vigoni

09:15 – 09:30 am Welcome

09:30 – 11:00 am Michael Fleischhauer: Detecting topological order in driven dissipative

and interacting quantum systems by topology transfer

Gerhard Rempe: Polyatomic molecules are cool

11:00 – 11:30 am Coffee Break

11:30 am – 01:00 pm Joachim Wosnitza: FFLO states in layered organic superconductors

Christoph Becher: Quantum frequency conversion of single photons:

How to interface single atoms with single telecom photons

01:00 – 02:30 pm Lunch

02:30 – 04:00 pm Project Presentations:

 Sebastian Hofferberth and Christoph Tresp (CO.CO.MAT Award Recipient 2017): C12 / S-NIF-4 - Strongly interacting single photons

in an ultra-cold Rydberg gas

• Matthias Wenzel: A2 - Dipolar Bose-Einstein condensates

Edward Goldobin and Harald Losert: A5 - Fractional Josephson vortices in the quantum limit

Tuesday, 04 April 2017 (cont.)

04:00 – 04:30 pm Coffee

04:30 – 05:30 pm Project Presentations

• Simone Montangero: A7 – Controlling many-body quantum

systems

• Joschka Wolf: A8 - Charged impurities in an ultracold sea of neutral

atoms

05:30 – 07:30 pm For SFB Pls: Meeting of SFB Principal Investigators

For all other participants: Poster Session (Room: Foyer)

Poster will remain on display until the end of the workshop

07:30 – 09:30 pm Dinner

Wednesday, 05 April 2017

07:30 – 08:45 am Breakfast at Grand Hotel Victoria

08:00 – 09:00 am Breakfast at Villa Vigoni

09:15 – 10:00 am Christophe Salomon: Dual Bose-Fermi superfluids

10:00 – 11:00 am Project presentations

Daniel Hoffmann: B4 - Strongly correlated fermions in and out of

eauilibrium

• Jan Kumlin: B6 - Ordered states in strongly interacting Rydberg

gases

11:00 – 11:30 am Coffee Break

11:30 am – 01:00 pm Project Presentations

Hans Peter Büchler: B8 - Quantum phase transitions with cold polar

molecules

• Florian Meinert: B10 - Photo-association of trilobite Rydberg

molecules via resonant spin-orbit coupling

Harald Giessen: S-NIF-3 - Giant excitonic Rydberg atoms in a solid:

Potential for precision sensing and quantum effects

01:00 – 02:30 pm Lunch

03:00 – 09:30 pm Excursion and Dinner

• Meeting at gate to Villa Mylius-Vigoni at 3:00 pm

• Walk to Menaggio (ca. 20 minutes on foot) or alternatively transfer

by shuttle bus

Boat trip across Lago di Como

Visit to Villa Carlotta and gardens

Dinner at Ristorante Silvio in Bellagio

Return to Menaggio by boat

Return to Villa Vigoni by bus or 20 minutes walk

Thursday, 06 April 2017

07:30 – 08:45 am Breakfast at Grand Hotel Victoria

08:00 – 09:00 am Breakfast at Villa Vigoni

09:00 – 11:00 am Project Presentations

Simon Seyfferle: C3 - Coherent control in vertically and laterally accorded guarantees detaylated.

coupled quantum dot systems

• Philipp Neumann: C4 - Correlated quantum states in defect centre

clusters

• Andreas Günther: C9 - Quantum sensors with cold atoms

• James Lim: C11 – Vibronic coherence in artificial light-harvesters

11:00 – 11:30 am Coffee Break

11:30 am – 01:00 pm Project Presentations

Boris Naydenov: B11 - Quantum simulator with engineered spin

arrays in diamond

• József Fortágh, Benedikt Ferdinand, Joachim Ankerhold and Helge

Hattermann:

C2 - Superconducting microtraps

T-NIF-5 - Coherent excitation of Rydberg states in superconducting

microwave resonators

01:00 – 01:15 pm Wrap Up

01:15 – 02:30 pm Lunch

After 02:30 pm Departure

All information as of 28/03/2017