

Ringberg

August 30 - September 3, 2021

Program

*Max Planck Institute
of Quantum Optics
Laser Spectroscopy Division*

Monday, August 30 2021

until 10:30 a.m.

Travel to Ringberg Castle

11:00 a.m.

Welcome
Prof. Hänsch
Seminar Room

Introduction of the new group members
and invited speakers

11:30 a.m.

Guided Tour through Ringberg Castle

12:30 p.m.

Lunch

Chair: Theodor W. Hänsch

14:00 p.m.

Towards precision spectroscopy of the 2S-6P transition in
atomic deuterium

Vitaly Wirthl

15:00 p.m.

Coffee Break

16:00 p.m.

News from hydrogen 1s3s
Derya Taray

17:00 p.m.

TBA
Savely Karshenboim

18:00 p.m.

Dinner

Tuesday, August 31 2021

8:00 a.m.

Breakfast

Chair: Tim Van Leent

9:00 a.m.

Enhanced quantum-light-matter interaction using confinement in photonic micro- and nanostructures

Oliver Benson
Humboldt-Universität zu Berlin

10:00 a.m.

Coffee Break

10:30 a.m.

Quantum key distribution security and networks

Harald Weinfurter & Adomas Baliuka/Michael Auer

11:30 a.m.

Tracing information flow from open quantum systems in integrated waveguides

Jan Dziewor

12:30 p.m.

Lunch

Chair: Akira Ozawa

14:00 p.m.

Precision spectroscopy in multi-ion-systems

Tanja Mehlstäubler
Physikalisch-Technische Bundesanstalt and Leibniz Universität Hannover

15:00 p.m.

Coffee Break & Photo Session

16:00 p.m.

Two-photon capture of hydrogen in a magic wavelength dipole trap

Zak Burkley
Institute for Particle Physics and Astrophysics, ETH Zurich

17:00 p.m.

End of the Session

18:00 p.m.

Dinner

Wednesday, September 1 2021

8:00 a.m.

Breakfast

Chair: Thomas Udem

9:00 a.m.

Muonium spectroscopy

Paolo Crivelli

Institute for Particle Physics and Astrophysics, ETH Zurich

10:00 a.m.

Coffee Break

11:00 a.m.

Long distance entanglement of atoms I

Florian Fertig

11:45 a.m.

Long distance entanglement of atoms II

Yiru Zhou

12:30 p.m.

Lunch

Excursion

19:00 p.m.

“Bavarian Buffet”

Thursday, September 2 2021

8:00 a.m.

Breakfast

Chair: Thomas Hümmer

9:00 a.m.

Determination of the fine-structure constant with an accuracy of 81 parts per trillion

Pierre Cladé
Laboratoire Kastler Brossel, Paris

10:00 a.m.

Coffee Break

10:30 a.m.

TBA

Michele Giunta

11:30 a.m.

High-resolution dual-comb spectroscopy based on modulated optical frequency combs

Bingxin Xu

12:30 p.m.

Lunch

Chair: Fabian Schmid

14:00 p.m.

Non-equilibrium dynamics of Coulomb crystals

Tanja Mehlstäubler
Physikalisch-Technische Bundesanstalt and Leibniz Universität Hannover

15:00 p.m.

Coffee Break

16:00 p.m.

TBA

Akira Ozawa

17:00 pm

End of Session

18:00 p.m.

Dinner

Friday, September 3 2021

8:00 a.m.

Breakfast

Chair: Rute Fernandes

9:00 a.m.

Towards cavity-enhanced Raman-spectroscopy of small volumes of gas

Matthias Mader

10:00 a.m.

Coffee Break

10:30 a.m.

Hyperspectral extinction measurements in an open scanning cavity

Ines Amersdorffer

11:30 a.m.

Towards progress in muonic hydrogen hyperfine splitting

Randolf Pohl

Johannes Gutenberg Universität Mainz & MPQ

12:30 p.m.

Lunch

13:30 p.m.

Departure