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Inauguration Ceremony of the Max Planck Harvard Research Center for Quantum Optics

Post-Doc Day MPHQ
11th of January 2018
Institute for Advanced Study

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PROGRAM

14.00h – 14.05h
Program Opening

14.05h – 14.30h
Dr. Fabian Grusdt (Harvard)
Meson theory of magnetic polarons in hole-doped anti-ferromagnets

14.30h – 14.55h
Dr. Johannes Zeiher (MPQ)
Coherent dynamics in Rydberg-dressed spin systems

14.55h – 15.20h
Dr. Daniel Greif (Harvard)
New frontiers in fermionic quantum gas microscopy

15.20h – 15.55h
Dr. Erez Zohar (MPQ)
Gauge Symmetries with Cold Atoms and PEPS: Quantum Simulation and Tensor Network Studies of Lattice Gauge Theories

15.55h – 16.30h
Coffee Break

16.30h – 16.55h
Dr. Ephraim Shahmoon (Harvard)
Optomechanical repsonse of a two-dimensional atomic array

16.55h – 17.20h
Dr. Olivier Morin (MPQ)
Coherence protection of a photonic-qubit memory

17.20h – 17.45h
Dr. Lawrence Cheuk (Harvard)
Laser Cooling and Optical Trapping of CaF Molecules

17.45h – 18.10h
Dr. Renate Landig (Harvard)
Time crystals in strongly interacting dipolar spin systems

18.10h – 20.00h
Poster session

MP HQ

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Inauguration Ceremony of the Max Planck Harvard Research Center for Quantum Optics

Inauguration Day
12th of January 2018
Deutsches Museum

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PROGRAM

09.00h - 09.30h
Registration

09.30h – 09.40h
Opening MPHQ Inauguration Day
Prof. Gerhard Rempe
Prof. Wolfgang Heckl

09.40h – 10.20h
Prof. Mikhail Lukin (Harvard)
Exploring new frontiers of quantum science with past, present and future Harvard-MPQ collaboration

10.20h – 11.00h
Prof. Immanuel Bloch (MPQ)
Large scale quantum simulations using ultracold atoms in optical lattices

11.00h – 11.20h Coffee break

11.20h – 12.00h
Prof. Kang-Kuen Ni (Harvard)
Fun with two atoms – a tale of collisions and reactions

12.00h – 12.40h
Prof. Ignacio Cirac (MPQ)
Theoretical frontiers in quantum optics and quantum information

12.40h – 13.20h
Prof. Rainer Blatt (Scientific Advisory Board)
Quantum computations and quantum simulations with trapped ions

13.20h – 14.00h
Lunch

14.00h – 14.45h
Prof. Wolfgang Ketterle (Nobel laureate)
New forms of matter with ultracold atoms: superfluids and supersolids

14.45h – 15.15h
Official MPHQ Opening Ceremony
Prof. Gerhard Rempe (Director MPHQ)
Prof. Martin Stratmann (President of the MPG)
Prof. Jeremy Bloxham (Dean of Science Harvard)

15.15h – 16.00h
Prof. John Doyle (Harvard)
Probing the frontiers of particle physics using quantum sensors

16.00h – 16.30h
Coffee break

16.30h – 16.45h
Dr. Johannes-Geert Hagmann (Deutsches Museum)
Optics and quantum optics at the Deutsche Museum

16.45h – 17.45h
Experimental talk by Prof. Markus Greiner (Harvard)
Quantum Lego: from single atoms to quantum computing

17.45h – 18.00h
Closing remarks & Scientific wrap-up
Prof. Gerhard Rempe