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the
program

**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 response 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

