

Aug 20—25 2023, Leibniz Universität Hannover

Quantum States of Matter: Fundamental Physics and Applications

SUMMER SCHOOL



SCOPE

We invite up to 30 M.Sc.-level students, not enrolled yet in a PhD program, to attend the „*1st DQ-mat Summer School on Quantum States of Matter: Fundamental Physics and Applications*“ hosted at Leibniz University Hannover. The lectures, delivered by experts in the fields of quantum gases, quantum optics and metrology, aim at preparing the next generation of young researchers in these fields.

They will be complemented by several tutorials and lab tours at the Leibniz University and the National Metrology Institute (PTB). Accommodation as well as participation is free of charge for the selected attendees. A travel cost allowance will also be granted.

LOCAL ORGANIZATION COMMITTEE

Dennis Schlippert, LUH
Naceur Gaaloul, LUH

TOPICS COVERED

Ultracold atom physics
Non-classical states of matter
Matter wave interferometry
Trapped ions: sensing & computing
Many-body physics
Clocks and timekeeping

LECTURERS

Naceur Gaaloul
Klemens Hammerer
Carsten Klempt
Christian Ospelkaus
Silke Ospelkaus

Ekkehard Peik
Luis Santos
Dennis Schlippert
Piet Schmidt
Christian Schubert

INFORMATION

<https://www.dq-mat.uni-hannover.de/de/summer-school>

