

Working Group "Young DPG" Arbeitskreis junge DPG (AKjDPG)

Mareike Hetzel
Institut für Quantenoptik
Leibniz Universität Hannover
Welfengarten 1
30167 Hannover
hetzel@iqo.uni-hannover.de

Bernd Meyer-Hoppe
Institut für Quantenoptik
Leibniz Universität Hannover
Welfengarten 1
30167 Hannover
b.meyer@iqo.uni-hannover.de

Vivienne Leidel
Physikalisches Institut
Im Neuenheimer Feld 226
69120 Heidelberg
leidel@jdpd.de

Be welcome to this year's program of the Working Group young DPG!

To those, who are new to the conference and are feeling lost in view of the various sessions, we want to offer the chance to build a solid foundation and to learn about the hot topics of the conference. You are cordially invited to visit the tutorials on Sunday afternoon and learn about quantum simulation and computing as well as molecular spectroscopy!

With our PhD-Symposium we want to explore the fascinating physics of many-body physics in ultracold quantum systems. The symposium is especially designed to give an introduction into the topic and will feature well known experts on the field.

Be welcome to join the tower building contest on Tuesday right after the plenary talk and to explore Hannover's night life during the pub crawl on Tuesday evening.

We are looking forward to seeing you at our events!

Overview of Invited Talks and Sessions

Invited Talks

AKjDPG 1.1	Sun	17:00–17:45	B305	A Tutorial on Quantum Simulation — •CHRISTIAN GROSS
AKjDPG 1.2	Sun	17:45–18:30	B305	Developing utility scale quantum computers with trapped ions — •WINFRIED HENSINGER
AKjDPG 2.1	Sun	17:00–17:45	B302	New perspectives in the investigation of ultrafast molecular dynamics — •ANDREA TRABATTONI
AKjDPG 2.2	Sun	17:45–18:30	B302	Femtosecond spectroscopy in the condensed and gas phase — •LUKAS BRUDER

Invited Talks of the joint PhD-Symposium – Many-body Physics in Ultracold Quantum Systems

See SYPD for the full program of the symposium.

SYPD 1.1	Thu	14:30–15:00	E415	Entanglement and quantum metrology with microcavities — •JAKOB REICHEL
SYPD 1.2	Thu	15:00–15:30	E415	Many-body physics in dipolar quantum gases — •FRANCESCA FERLAINO
SYPD 1.3	Thu	15:30–16:00	E415	Quantum Simulation: from Dipolar Quantum Gases to Frustrated Quantum Magnets — •MARKUS GREINER
SYPD 1.4	Thu	16:00–16:30	E415	Quantum gas in a box — •ZORAN HADZIBABIC

Sessions

AKjDPG 1.1–1.2	Sun	17:00–18:30	B305	Tutorial Quantum Simulation and Computing
AKjDPG 2.1–2.2	Sun	17:00–18:30	B302	Tutorial Molecular Spectroscopy