

## Industry Day (WED-ID)

Rishabh Jha  
University of Göttingen  
Friedrich-Hund-Platz 1  
37077 Göttingen, Germany  
rishabh.jha@uni-goettingen.de

Wilhelm Kaenders  
TOPTICA Photonics AG  
Lochhamer Schlag 19  
82166 Gräfelfing, Germany  
Wilhelm.Kaenders@toptica.com

### Overview of Invited Talks and Sessions

(Lecture halls ZHG011, ZHG001, ZHG006, ZHG007, ZHG101, ZHG104, and ZHG105)

#### Plenary Talk

WED-ID 1.1 Wed 14:05–14:35 ZHG011 **Quantum technologies roadmaps perspective and challenges —**  
•OLIVIER EZRATTY

#### Invited Talks

WED-ID 2.1 Wed 14:45–15:05 ZHG001 **Trapped-Ion Quantum Computing at Infineon —** •CLEMENS RÖSSLER

WED-ID 2.2 Wed 15:10–15:30 ZHG001 **Planck’s Reluctant Constant and the Second Semiconductor Revolution —** •MARK MATTINGLEY-SCOTT

WED-ID 2.3 Wed 15:35–15:55 ZHG001 **Quantencomputing: Von der universitären Forschung zum Startup neQxt —** •FERDINAND SCHMIDT-KALER

WED-ID 2.4 Wed 16:00–16:20 ZHG001 **Building quantum computers, atom by atom —** •ALEXANDER GLÄTZLE

WED-ID 2.5 Wed 16:25–16:45 ZHG001 **Progress on superconducting quantum processors at IQM —**  
•FRANK DEPPE

WED-ID 3.1 Wed 14:45–15:05 ZHG101 **Quantum Internet: Technologies & Applications —** •IMRAN KHAN

WED-ID 3.2 Wed 15:10–15:30 ZHG101 **From Promise to Practice: The Challenges in Finding Quantum Computing Applications —** •NICOLE HOLZMANN

WED-ID 3.3 Wed 15:35–15:55 ZHG101 **Deterministic Photon-Emitter Interfaces for Quantum Technology —** •PETER LODAHL

WED-ID 3.4 Wed 16:00–16:20 ZHG101 **Entanglement-based Quantum Key Distribution —** •SEBASTIAN NEUMANN

WED-ID 4.1 Wed 14:45–15:05 ZHG007 **Quantum magnetometers and the aspect of industrialisation —**  
•THOMAS STROHM

WED-ID 4.2 Wed 15:10–15:30 ZHG007 **From Lab to Industry: Fiber Microcavities for Quantum Tech —**  
•MICHAEL FÖRG, JONATHAN NOÉ, MANUEL NUTZ, THOMAS HÜMMER

WED-ID 4.3 Wed 15:35–15:55 ZHG007 **Advance semiconductor chip analysis with quantum diamond magnetoemters —** •NIMBA OSHNIK

WED-ID 4.4 Wed 16:00–16:20 ZHG007 **A commercial optical frequency standard based on a single  $^{171}\text{Yb}^+$  ion —** •STEPHAN RITTER

WED-ID 4.5 Wed 16:25–16:45 ZHG007 **Accelerating semiconductor developments with Quantum Metrology —** •MATHIEU MUNSCH

WED-ID 5.1 Wed 14:45–15:05 ZHG105 **Pathways to Maturity for the Quantum Industry —** •CLAUDIUS RIEK

WED-ID 5.2 Wed 15:10–15:30 ZHG105 **From Bottlenecks to Breakthroughs: Simplified & Scalable Cryogenics for the Quantum Age —** •TOMEK SCHULZ

WED-ID 5.3 Wed 15:35–15:55 ZHG105 **Quantum technologies enabled by Photonic Integrated Circuits —**  
•MICHAEL GEISELMANN

WED-ID 5.4 Wed 16:00–16:20 ZHG105 **Light Modulators Driving Quantum Innovation —** •ENRICO VOGT

WED-ID 5.5 Wed 16:25–16:45 ZHG105 **PicoQuant Insights: Precision and Innovation for Quantum Research and Industry —** •UWE ORTMANN, ANDREAS LEHR, MICHAEL WAHL, TORSTEN KRAUSE, TINO RÖHLICKE, RAINER ERDMANN

WED-ID 6.3 Wed 16:00–16:20 ZHG006 **Driven by Quantum, empowered by Quandela —** •THOMAS VOLZ

**Sessions**

WED-ID 1.1–1.1	Wed	14:00–14:35	ZHG011	<b>Plenary Talk</b>
WED-ID 2.1–2.5	Wed	14:45–16:45	ZHG001	<b>Quantum Computers &amp; Simulators</b>
WED-ID 3.1–3.4	Wed	14:45–16:20	ZHG101	<b>Quantum Communication &amp; Internet</b>
WED-ID 4.1–4.5	Wed	14:45–16:45	ZHG007	<b>Quantum Sensing &amp; Metrology</b>
WED-ID 5.1–5.5	Wed	14:45–16:45	ZHG105	<b>Quantum Enabling I</b>
WED-ID 6.1–6.4	Wed	15:10–16:45	ZHG006	<b>Quantum Hardware, Software &amp; Solutions</b>
WED-ID 7.1–7.4	Wed	15:10–16:45	ZHG104	<b>Quantum Enabling II</b>
WED-ID 8.1–8.1	Wed	17:00–17:30	ZHG011	<b>Panel Discussion</b>