



18.10.2017
Einstein-Kabinett
Rudower Chaussee, 17
12489 Berlin-Adlershof

QUANTUM OPTICS AND SECURE OPTICAL DATA TRANSMISSION

Handlungsfeldkonferenz
Photonik für Kommunikation und Sensorik

QUANTUM OPTICS AND SECURE OPTICAL DATA TRANSMISSION

Handlungsfeldkonferenz Photonik für Kommunikation und Sensorik

18.10.2017 | PROGRAMME

09:30 – 10:00	Registration / Exhibition / Coffee
10:00 – 10:20	Welcome and introduction Dr. Henning Schröder, Fraunhofer IZM Dr. Frank Lerch, Cluster Optik und Photonik / OpTecBB e.V.
10:20 – 10:40	Innovation and funding areas of quantum optics in Germany Lars Unnebrink, VDI Technologiezentrum GmbH
10:40 – 11:00	Overview of quantum nano photonics (in Berlin und Brandenburg) Prof. Dr. Stephan Reitzenstein, TU Berlin
11:00 – 11:20	UK National Quantum Technology Programme and QuantIC Prof. Miles J. Padgett, University of Glasgow
11:20 – 11:50	Coffee break & Exhibition
11:50 – 12:10	Quantum optical sensors and relevant laser technology Dr. Andreas Wicht, Ferdinand-Braun-Institut, Leibniz-Institut für Höchstfrequenztechnik (FBH)
12:10 – 12:30	Controlling tomorrow's quantum machines: Injecting software development lessons into quantum optics Dr. Robert Jördens, QUARTIQ GmbH
12:30 – 12:50	Single photon counting applied to optical quantum technologies Dr. Michael Wahl, PicoQuant GmbH
12:50 – 13:10	Quantum devices and their variety of application in science Prof. Yoshihiro Takiguchi, Hamamatsu Photonics/GPI/OPTONEXT HAMAMATSU
13:10 – 14:10	Lunch & Exhibition
14:10 – 14:30	Commercialisation of quantum technologies Dr. Robin Head, M Squared
14:30 – 14:50	Future miniaturized diode-laser systems for quantum sensing applications Dr. Patrick Leisching, TOPTICA Photonics AG
14:50 – 15:10	Quantum communications in telecom fibre-optic networks Andrew Shields, Toshiba Europe
15:10 – 15:30	Free-space and hand held quantum optical devices Prof. Dr. Harald Weinfurter, Ludwig-Maximilian University of Munich (LMU)
15:30 – 16:00	Coffee break & Exhibition
16:00 – 16:20	Test and measurement equipment for quantum optics research and development Dr. Klaus Engenhardt, Tektronix GmbH
16:20 – 16:40	Secure datacenter interconnect Michael Roth, ADVA Optical Networking SE
16:40 – 17:00	From silicon photonics towards quantum optics -Research in CMM-FBK George Pucker, Centre of Materials and Microsystems, Fondazione Bruno Kessler, Povo-Trento, Italia
17:00 – 17:20	Optimization of quantum optical devices with machine learning approaches Dr. Philipp-Immanuel Schneider, JCMwave GmbH
17:20 – 17:40	Implementation of quantum photonics devices with rare earth ions doped solids. Dr. Margherita Mazzera, ICFO, The Institute of Photonic Sciences and the Barcelona Institute of Technology

17:40 – 18:00

Countdown to Quantum Supremacy: An Update from the Google Quantum Artificial Intelligence Lab
Dr. Hartmut Neven, Google

Ab 18:00

Photonic Days Evening reception at WISTA Bunsensaal

The workshop language is English. Admission to the event is free, but early [registration](#) is required.

Venues:

WISTA – Einstein-Kabinett
Rudower Chaussee 17
12489 Berlin

Contact person:

Dr. Frank Lerch
OpTecBB e.V.
Tel.: +49 30 6392 1728
E-Mail: lerch@optecbb.de

RÜCKANTWORT

Handlungsfeldkonferenz Photonik für Kommunikation und Sensorik

„Quantum optics and secure optical data transmission“

Mittwoch, 18. Oktober 2017

WISTA, Raum ...

Rudower Chaussee 17

12489 Berlin-Adlershof

Online-Anmeldung unter:

http://optecbb.de/lang/de/anmeldung_20171018_hfk_phokos.php

Anmeldung bitte bis zum 13.10.2016

ODER direkt an:

Herrn Reschke, OpTecBB e.V.

E-Mail: optecbb@optecbb.de

Fax: +49-30-6392-1729

Name, Vorname:

Titel:

Institution/Firma:

Anschrift:

Tel./FAX:

E-Mail:
