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**Press Release**

**PicoQuant announces 3rd International Symposium on**

**“Single Photon based Quantum Technologies”**

**Scientists from all over the world will gather in Berlin from May 27 to 29, 2020 to present and discuss recent developments in single photon based quantum technology.**

**Berlin (Germany), 11 December 2019** – PicoQuant is proud to host the third edition of the three day symposium on “Single Photon based Quantum Technologies” from May 22 to 24, 2019 in Berlin, Germany. The event provides an interdisciplinary platform for exchanging experiences and information about latest developments in the field of single photon based quantum technologies.

Eight distinguished scientists from around the world will present their recent work in this field as invited speakers: Benito Alén (CSIC, Spain), Mete Atature (University of Cambridge, UK), Dirk Englund (MIT, USA), Xiaolong Hu (Tianjin University, China), Christophe Marquardt (MPL Erlangen, Germany), Tanja Mehlstäubler (PTB Braunschweig, Germany), Ana Predojevic (Stockholm University, Sweden), and Franco N. C. Wong (MIT, USA).

Contributed oral presentations as well as a poster session round out the symposiums scientific program. A welcome reception provides participants with the opportunity for further discussions with the invited speakers and other attendees. Registration for the 3rd International Symposium on “Single Photon based Quantum Technologies” is open until April 25, 2020.

The first generation of quantum technologies such as transistors, solid-state lighting, lasers, or GPS have dramatically changed the world during the last 50 years. Today, we are paving the way for a second revolution by starting to exploit quantum phenomena such as superposition or entanglement. Breathtaking advances in creating and manipulating dedicated entangled and/or superimposed quantum states will lead to new technologies that promise to change our society in the next 5 to 20 years through revolutionary breakthroughs in imaging, sensing, communication, stimulation, and computation. However, we are still at the beginning of transferring theory into technology in many of the related research fields.

**Date:** May 27-29, 2020  
**Location:** Berlin, Germany  
**Contact:** PicoQuant GmbH  
 Lukas Hager  
 [http://www.quantum-symposium.org](http://www.quantum-symposium.org/)  
 [events@picoquant.com](mailto:events@picoquant.com)

**Further details**

***Invited speakers***

* [Benito Alén (CSIC, Spain)](https://www.csic.es/en/node/396927)  
  "Electrically driven and tunable plug & play single photon sources"
* [Mete Atature (University of Cambridge, UK)](https://www.phy.cam.ac.uk/directory/ataturem)

"Photons and spins of group 4 colour centres in diamond"

* [Dirk Englund (MIT, USA)](https://www.eecs.mit.edu/people/faculty/dirk-r-englund)

"Scalable Quantum Networks with Artificial Atoms"

* [Xiaolong Hu (Tianjin University, China)](http://jyxy.tju.edu.cn/en/Faculty.html)

"Superconducting nanowire single-photon detectors and multi-photon detectors“

* [Christoph Marquardt (MPL Erlangen, Germany)](https://www.mpl.mpg.de/research-at-mpl/independent-research-groups/marquardt-research-group/?L=0)

*tbd*

* [Tanja Mehlstäubler (PTB Braunschweig, Germany)](https://www.quantummetrology.de/quaccs/staff/tanja-mehlstaeubler/)

"Next-generation multi-ion optical clocks“

* [Ana Predojevic (Stockholm University, Sweden)](https://www.su.se/english/profiles/apred-1.222426)

"Entangled photon pairs for quantum communication“

* [Franco N. C. Wong (MIT, USA)](https://www.rle.mit.edu/qoptics/)

"Quantum-secured communication at Gbps rates“

***Excerpt of topics***

* Single-photon detectors and sources
* Quantum metrology and sensing
* Quantum correlations and entanglement
* Quantum information processing, communication and QKD
* Integrated photonic quantum circuits

**About PicoQuant**

PicoQuant is a leading research and development company specializing in optoelectronics, which was founded in 1996. The company, based in the science and technology park of Berlin-Adlershof, Germany, is a worldwide leader in the field of single photon counting applications. The product portfolio encompasses picosecond pulsed diode lasers and LEDs, photon counting instrumentation, fluorescence lifetime spectrometers, FLIM and FCS upgrade kits for laser scanning microscopes as well as time-resolved confocal and super-resolution microscopes. Since April 2008 Sales and Support in North America is handled by PicoQuant Photonics North America Inc. The PicoQuant group employs currently around 80 people.

**Attachment**

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Caption: Researchers from all over the world will meet on PicoQuant’s quantum symposium in Berlin to present and discuss recent developments in single photon based quantum technology.

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