

# CONSENT

## to film/photo and video recordings during the event

At this event, photos and/or video recordings may be made in which you are recognisable and which can be used for the public relations work of PHOTONICS AUSTRIA in all media (such as website, press, LinkedIn, etc.) for an unlimited period of time.

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You can revoke this declaration in writing at any time. This cancellation applies to all future publications, but not to publications already made.

## PROGRAMME

### 14:00 Start QuantumDay4Students

- Welcome Désirée Ehlers, BMK
- Welcome Michael Wurzinger, Photonics Austria

### 14:15 Impulse-Talks at stage (max. 10-15 min.)

- Phila Rembold, TU Vienna Atominstitut
- Clemens Rössler, Infineon
- Mariana Ferreira-Ramos, AIT
- Michael Trupke, ÖAW Vienna
- Veronika Mayerböck, Alles oder Licht

### 15:15 Company/institutes-booths & open buffet

- AIT
- FH Technikum Vienna
- Joanneum Research
- qtlabs
- TU Vienna
- Infineon
- RECENDT
- Alles oder Licht
- & guest Blueprint Quantum Academy

### 16:45 Nobel Prize Talks at the stage

- Hannes Hübel, AIT
- Michael Hentschel, AIT
- Désirée Ehlers, BMK
- Martin Bohmann, qtlabs

### 18:00 END at the buffet

# PHOTONICS AUSTRIA

## QUANTUM DAY 4 STUDENTS

**APRIL 12, 2024 from 2 to 6 pm**

Radetzkystraße 2, 1030 Vienna

 Federal Ministry  
Republic of Austria  
Climate Action, Environment,  
Energy, Mobility,  
Innovation and Technology



### Program:

#### 14:15 Impulse Quantum Talks

- Communication
- Computing
- Sensing

#### 15:15 Member Pitches

- at company  
booths

#### 16:45 Nobel Prize Talks

“Quantum technology is on everyone’s lips nowadays. Austria is a hotspot in the area and is punching above its weight not only because of two associated Nobel prize winners in the last two years but also because of a vibrant ecosystem around the basis research. Join us and get to know what’s up in Quantum technologies in Austria!”

**Michael Wurzinger**

Platform Manager Photonics Austria  
[www.photonics-austria.at](http://www.photonics-austria.at)

Follow us on LinkedIn!  
Details soon!



REGISTRATION: [alexandra.grabner@joanneum.at](mailto:alexandra.grabner@joanneum.at)



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“Quantum computing happens when the science of bits (zeros and ones) mingles with the concepts of quantum physics to create something new.  
Join us for an introduction and brief exploration of its potential and limits.”

**Phila Rembold**  
Technical University Vienna



14:15 Impuls-Talks COMPUTING

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"Trapped ion quantum computing is rapidly transitioning from academic research to useful applications. However, reliability and integration will be essential to scale the number of controlled qubits towards thousands or more. I will present Infineon's contribution to developing a meaningful trapped-ion quantum computer."

**Clemens Rössler**  
Infineon



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14:15 Impulse Talks Computing

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Diving into Quantum Communications: An Experimental Overview:

"In my talk I will explore the fundamental concepts and breakthroughs through practical experiments, providing a comprehensive overview of experimental landscape in the field of quantum communications."

**Mariana Ferreira-Ramos**



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14:15

Impulse Talk Communication

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"Over the last two decades, quantum sensors have developed from scientific concept to commercial reality. Following a brief overview of the field, I will describe two quantum sensing research avenues, with diamond defects and with levitated superconductors, currently being pursued at IQOQI-Vienna."

Michael Trupke



14:15 Impulse Talk Sensing

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#### "THE FASCINATION OF LIGHT"

An impulse lecture sketching various applications of light from design to research.

**Veronika Mayerböck**  
Alles oder Licht

Alles oder Licht



14:15 Impuls-Talks

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Entanglement from A(spect) to Z(eilinger):  
“In my talk I will review the story of quantum entanglement  
and how it led to the Nobel Prize in Physics in 2022.””

Hannes Hübel  
AIT



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16:45 Nobel Prize Talk

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"It is inevitable that many ideas of the young mind will later have to give way to the hard realities of life. But these realities will make themselves felt soon enough and while I am certainly not asking you to close your eyes to the experiences of earlier generations, I want to advise you not to conform too soon and to resist the pressure of practical necessity. Free imagination is the inestimable prerogative of youth and it must be cherished and guarded as a treasure."  
Zitat: Banquet Speech from Felix Bloch

**Désirée Ehlers**

Federal Ministry Republik of Austria  
[www.bmk.gv.at](http://www.bmk.gv.at)



16:45 Quantum leaps: big and/or small?  
AT scientists and/or the Nobel Prize

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“The Nobel Prize in Physics 2022 was awarded for experiments with entangled photons, establishing the violation of Bell inequalities and pioneering quantum information science. In this talk, we will spotlight how these advances in fundamental physics led to new technologies.”

**Martin Bohmann**  
Business Development  
[www.qtlabs.at](http://www.qtlabs.at)

**qtlabs**  
Quantum Technology Laboratories



16:45 Nobel Prize Talk

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Generation and measurement of isolated attosecond light pulses.

"In 2001, the world's first isolated attosecond light pulses were measured at TU Wien. Ferenc Krausz was awarded the Nobel Prize in Physics 22 years later for this breakthrough in laser physics."

**Michael Hentschel**

AIT Austrian Institute of Technology GmbH

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16:45 Nobel Prize Talks

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"Meet me at the FHTW booth with a setup for generating entangled photon pairs and violating Bell's inequalities."

**Mira Maiwöger**  
FH Technikum Vienna



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„Quantum Cryptography, Quantum Computing and Quantum Sensors are key technologies of the 21st century. However, the lack of a skilled workforce currently is the decisive bottleneck in the development of quantum technologies. We will unite the efforts of industry and academia to empower the future workforce.”

Lukas Mairhofer



Blueprint  
Quantum Academy



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