

# CEWQO'17

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**Hybrid quantum cryptography with  
high-dimensional multimode coherent states**

Romain Alléaume

Telecom ParisTech  
France

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**Simultaneous measurement of conjugate variables: Reaching the Cramèr-Rao bound with coherent states**

Matthieu Arnhem

Université Libre de Bruxelles  
Belgium

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**Generation of highly pure Schrödinger's cat states with exponentially rising wave packet and real-time quadrature measurement**

Warit Asavanant

The University of Tokyo  
Japan

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**Frequency-entangled qudits in AlGaAs  
waveguides**

Florent Baboux

Université Paris Diderot  
France



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**Determining the internal quantum efficiency  
of nitrogen-vacancy defects in diamond**

Mads Boll

DTU Physics  
Denmark

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## Teleportation simulation of non-Pauli channels

Thomas Cope

University of York  
United Kingdom

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**Discrete model of quantum filtering for  
environment prepared in single photon state**

Anita Dabrowska

Nicolaus Copernicus University in Toruń  
Poland

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P-35

**Role of nuclear spin fluctuations in  
spin-photon and multi-photon entanglement  
protocols based on charged quantum dots**

Emil V. Denning

DTU Fotonik  
Denmark



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P-40

**Quantum key distribution using space division  
multiplexing**

Yunhong Ding

DTU Fotonik: Department of Photonics  
Engineering - Technical University of Denmark  
Denmark

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**Coupling a superconducting qubit to light  
using hybrid qubit-quantum dot  
nanostructures**

Vincent E. Elfving

Niels Bohr Institute  
Denmark

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**Conditioned electron spin and population  
dynamics of a quantum dot**

Eliska Greplova

Aarhus University  
Denmark

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**Ambiguity—losses trade-off for state  
discrimination**

Frédéric Grosshans

Université Paris-Saclay  
France



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**Random numbers generated using photons  
without post-processing**

Jorge G. Hirsch

ICN UNAM  
Mexico

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**Insecurity of practical quantum key  
distribution against long-wavelength  
Trojan-horse attacks**

Nitin Jain

Technical University of Denmark  
Denmark

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**Classical capacity per unit cost for quantum channels**

Marcin Jarzyna

University of Warsaw  
Poland

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**An effective criterion for the existence of  
decoherence-free subspaces in open quantum  
systems**

Takeo Kamizawa

Nicolaus Copernicus University  
Poland



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**Dynamics of single-photon emission from  
electrically pumped NV centers in diamond**

Igor Khramtsov

Laboratory of Nanooptics and Plasmonics, Moscow  
Institute of Physics and Technology  
Russia

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**High precision metrology from the Fisher  
information of a Hong-Ou-Mandel  
interferometer**

George Knee

University of Warwick  
United Kingdom

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**Noisy evolution of coherent states in a lossy  
Kerr medium**

Ludwig Kunz

University of Warsaw  
Poland

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**Temporally adjustable polarization  
entanglement from semiconductor waveguides**

Kaisa Laiho

University of Innsbruck  
Austria



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## **Multimode generation of quantum correlated photons with a tunable delay using a crystal**

Cyril Laplane

Group of Applied Physics - University of Geneva  
Switzerland

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**Quantum optics with extreme time resolution  
and ultrashort strong pulsed squeezing**

Thiago Lucena de Macedo Guedes

University of Konstanz  
Germany

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**Coherent states are not classical**

Alfredo Luis

Universidad Complutense de Madrid  
Spain

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**Unifying framework for coined quantum walks  
on irregular and disrupted graphs**

Jan Mareš

Faculty of Nuclear Sciences and Physical  
Engineering, Czech Technical University in Prague  
Czech Republic



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- P-8 Matthieu Arnhem
- P-9 Warit Asavanant
- P-11 Florent Baboux
- P-18 Mads Boll
- P-30 Thomas Cope
- P-32 Anita Dąbrowska
- P-35 Emil V. Denning
- P-40 Yunhong Ding
- P-43 Vincent E. Elfving
- P-51 Eliska Greplova
- P-53 Frédéric Grosshans
- P-60 Jorge G. Hirsch
- P-69 Nitin Jain
- P-70 Marcin Jarzyna
- P-75 Takeo Kamizawa
- P-76 Igor Khramtsov
- P-78 George Knee
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- P-84 Kaisa Laiho
- P-85 Cyril Laplane
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**Constraints on downconversion in atomically  
thick films**

Loris Marini

The University of Sydney  
Australia

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