

## QuantERA Funded Projects' Launch Event

24<sup>th</sup> April 2018

Venue: Intercontinental Bucharest Hotel

4 Nicolae Balcescu Blvd, Bucharest, Romania

Tuesday, 24<sup>th</sup> April 2018

9:00 - 21:00

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### Invited guests:

QuantERA Consortium Partners, representatives of QuantERA Funded Projects, Strategic Advisory Board (SAB), representatives of the European Commission (EC) and industry & other stakeholders.

09:00 **Welcome**

Representative of the Romanian Ministry

### POLICY SESSION

09:20 Introduction

Konrad Banaszek

09:30 European landscape in QT

Jean-François Buggenhout

09:45 Key-note speech

Tommaso Calarco

10:15 QuantERA Programme

Sylwia Kostka

10:30 Conclusions from the QuantERA Call 2017

Elisabeth Giacobino & Mathieu Girerd

11:00 **Coffee break**



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**PANEL DISCUSSIONS**

11:30 **Fostering Industry Connections**

Moderation: Francesco S. Cataliotti

Panellists:

- Ali Anjomshoaa, InnovateUK
- Paul Brie, Evozon
- Paolo Comi, ITALTEL
- Freeke Heijmann, TU Delft

12:15 **Promoting Inclusiveness**

Moderation: Rui Durão

Panellists:

- Laure Le Bars, SAP Research
- Radu Ionicioiu, National Institute of Physics and Nuclear Engineering, Bucharest
- Omar Yasser, Instituto Superior Técnico, Lisboa
- Marzena Szymańska, University College London
- Marek Żukowski, University of Gdańsk

13:00 **Lunch**

**SCIENTIFIC SESSION (details below\*)**

14:00 Presentations of Funded Projects

16:00 **Coffee break**

16:30 Presentations of Funded Projects

18:15 Poster Session

19:30 **Dinner (Rapsodia Hall)**



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**\*SCIENTIFIC SESSION DETAILS**

- 14:00 - 14:20 **Mehul Malik** (QuompleX): Quantum information processing with complex media
- 14:20 - 14:40 **Ana Predojevic** (HYPER-U-P-S): Hyper-entangled photons from quantum dots
- 14:40 - 15:00 **Thomas Fromherz** (CUSPIDOR): Towards CMOS compatible single photon sources based on SiGe quantum dots
- 15:00 - 15:20 **Felix von Oppen** (TOPOQUANT): 2D hybrid materials as a platform for topological quantum computing
- 15:20 - 15:40 **Earl Campbell** (QCDA): Quantum error correction: the toric code and beyond
- 15:40 - 16:00 **Florian Mintert** (TheBlinQC): Theory-blind quantum control

**16:00 - 16:30** *Coffee break*

- 16:30 - 16:50 **Francesco Marin** (QuaSeRT): Toward optomechanical quantum sensors at room temperature
- 16:50 - 17:10 **Constanza Toninelli** (ORQUID): An organic platform for quantum technologies
- 17:10 - 17:30 **Simone Montangero** (QTFLAG): Quantum technologies for lattice gauge theories
- 17:30 - 17:50 **Jérôme Beugnon** (NAQUAS): Non-equilibrium dynamics in atomic systems for quantum simulation
- 17:50 - 18:10 **Markus Hennrich** (ERyQSenS): Rydberg-enabled quantum simulators and sensors

**POSTER SESSION DETAILS**

**QuantERA Projects:**

- **Thierry Debuisschert** (MICROSENS): Microwave quantum sensing with diamond color centers
- **Marco Fattori** (TAIOL): Trapped Atom Interferometers in Optical Lattices
- **Filippo Levi** (Q-Clocks): Cavity-Enhanced Quantum Optical Clocks
- **Fernando Luis** (SUMO): Scaling Up quantum computation with MOlecular spins
- **Guido Pupillo** (Route): Vacuum enhanced transport and chemical reactions
- **Jérémie Roland** (QuantAlgo): Quantum algorithms and applications



- **Karsten Rottwitt** (SQUARE): Silicon Photonics for Quantum Fibre Networks
- **Marco Salluzzo** (QUANTOX): Quantum technologies with Two-dimensional oxides
- **Lars Schreiber** (Si QuBus): Long-range quantum bus for electron spin qubits in silicon
- **Pascale Senellart** (HiPhoP): High dimensional quantum Photonic Platform
- **Marzena Szymańska** (InterPol): Polariton lattices: a solid-state platform for quantum simulations of correlated and topological states
- **Michael Trupke** (Q\_Magine): Scalable Single Molecule Quantum Imagers

**Other:**

- **Abdel-Haleem Abdel-Aty** (Al-Azhar University): NVD Quantum Memory
- **Radu Ionicioiu** (Horia Hulubei National Institute of Physics and Nuclear Engineering IFIN-HH): QUCODE - a robust encoder for alignment-free satellite QKD
- **Aurelian Isar** (National Institute of Physics and Nuclear Engineering, Bucharest-Magurele): Studies on Quantum Correlations in Open Quantum Systems in the Department of Theoretical Physics
- **Doru Sticlet** (National Institute for Research and Development of Isotopic and Molecular Technologies): Shiba states induced by metal complexes on superconducting NbSe<sub>2</sub>
- **Bogdan-Ștefăniță Călin** (National Institute for Laser, Plasma and Radiation Physics): CETAL - a research infrastructure for photonic-based technologies

