Tentative program 22 February 2024

9:10-9:15 Opening

9:15-9:30 Opening speech of the State Secretary Andrei Alexandru

9:30-9:50 Octavian Moldovan **"Romania's National Quantum Communication Strategy (QTSTRAT) – Considerations on its Development and Content"**

9:50-10:20 Conf. Mihai Carabas, Conf. George Pantelimon-Popescu "**Presentation of RoNaQCI project"**

10:20-10:40 Dr. Sorin Zgura "**QUANTEC: An Open Hub for Advancing Quantum Communication Technologies in Romania**"

10:40-11:00 Dr. Radu Ionicioiu "**Quantum technologies: turning a threat into an opportunity**"

11:00-11:20 Coffee break

11:20-11:40 Dr. Sorin Tascu "**High Vacuum Proton Exchange PPLN waveguides: fabrication and application to quantum communications**

11:40-12:00 Dr. Liviu Zarbo **" Optimal Photon Counting with Visible Light"**

12:00-12:20 Dr. Luiza Buimaga-Iarunca **"Computational assessment of Aluminum-based Josephson junctions as building blocks for quantum processors"**

12:20-12:40 Dr. Coriolan Tiusan "**Skyrmionic materials and devices as platforms for quantum spintronics**"

12:40-13:40 Lunch

13:40-14:00 Dr. Ciprian Jichici "**State of the art for building quantum computers"**

14:00-14:20 Dr. Nicu Becherescu "**Utilizing Machine Learning for Backward Analysis of Quantum Devices to Pinpoint Efficiency Constraints"**

14:20-14:40 Dr. Rebeca Tudor "**Airy photons for quantum communications**"

14:40-15:00 Dr. Stefan Ataman "**Quantum sensing and metrology: to the shot-noise limit and beyond**"

15:00-15:20 Coffee break

15:20:15:40 Dr. Marian Zamfirescu "**ZnO-based optical microcavities**"

15:40-16:00 Dr. Radu Dragomir "**Quantum circuit representation of entangling and CNOT qubit gates"**

16:00-16:15 Andrei Dragomir "**SIC-POVM tomography in integrated photonics chips**"