## Quantum Research and Education in Europe and in Ukraine PROGRAM

Wednesday, July 27, 2022

	Time				
WEST UTC+1	CEST UTC+2	EEST UTC+3	SPEAKER	AFFILIATION	TALK TITLE
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Session 1				Moderator: Andrii Semenov	
08:00	09:00	10:00	Opening		
08:15	09:15	10:15	Marcus Huber	TU Wien, Austria	Thermodynamic limits to measurements
08:40	09:40	10:40	Igor Dotsenko	Laboratoire Kastler Brossel, Collège de France, Paris, France	Quantum simulator on circular Rydberg atoms
09:05	10:05	11:05	Anatoliy Negriyko	Institute of Physics, NAS of Ukraine	Experimental researches on Quantum metrology in Institute of Physics NAS Ukraine
09:30	10:30	11:30	Coffee break		
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09:45	10:45	11:45	Araceli Venegas-Gomez	QURECA Ltd., UK	Quantum Education Resources
10:10	11:10	12:10	Simon Goorney	Aarhus University, Denmark	Support for Ukraine from the Quantum Technology Education European community
10:35	11:35	12:35	Abuzer Yakaryilmaz	QWorld Association & University of Latvia	QWorld   Creating opportunities to join the second quantum revolution
44.00	40.00	40.00	0.5		
11:00	12:00	13:00	Coffee break		
11:15	12:15	13:15	Khrystyna Gnatenko	Ivan Franko National University of Lviv, Ukraine	Educational program "Quantum computing and quantum programming" at the Ivan Franko National University of Lviv
11:40	12:40	13:40	Igor Dmitruk	Taras Shevchenko National University of Kyiv, Ukraine	Educational and research program "Quantum Computers, Computing, and Information" at the Taras Shevchenko National University of Kyiv
12:05	13:05	14:05	Lunch break		
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Session 2				Moderator: Alexander Kordyuk	
13:00	14:00	45.00	Marca Dallini	latitude Namionale di Ottica CND Italia	Dhatan hu abatan ancionarios of acceptum light states
13.00	14.00	15:00	Marco Bellini	Istituto Nazionale di Ottica - CNR, Italy	Photon-by-photon engineering of quantum light states
13:25	14:25	15:25	Radim Filip	Palacky University Olomouc, Czech Republic	Nonclassical and Quantum non-Gaussian States of Light and Matter: Fundamentals and Applications
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13:50	14:50	15:50	Coffee break		
14:05	15:05	16:05	Andrii Semenov	Bogolyubov Institute for Theoretical Physics, NAS of Ukraine	Fundamental and applied issues in theoretical quantum optics
14:30	15:30	16:30	Armando Rastelli	Johannes Kepler University Linz, Austria	Semiconductor nanostructures for quantum science and technology
44.55	45.55	40.55	To #		
14:55	15:55	16:55	Coffee break		
15:10	16:10	17:10	Mehul Malik	Heriot-Watt University, Edinburgh, Scotland	High-Dimensional Quantum Photonics: Pushing the limits of Quantum Technologies
15:35	16:35	17:35	Andrii Sotnikov	Kharkiv Institute of Physics and Technology, NAS of Ukraine	Perspectives of ultracold atomic gasses as universal quantum simulators
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16:00	17:00	18:00	Coffee break		
		13.00	- Conco broak		
					Recent Quantum Optical Research at the Department of
16:15	17:15	18:15	Leonid Yatsenko	Institute of Physics, NAS of Ukraine	Coherent and Quantum Optics of the Institute of Physics of the National Academy of Sciences of Ukraine
16:40	17:40	18:40	Christian Marciniak	Universität Innsbruck, Austria	Quantum simulation, computation and communication with trapped ions in Innsbruck

## Quantum Research and Education in Europe and in Ukraine PROGRAM

Thursday, July 28, 2022

Time					
WEST UTC+1	CEST UTC+2	EEST UTC+3	SPEAKER	AFFILIATION	TALK TITLE
Caraian 2				Maderator Correct Characheric	
Session 3				Moderator: Sergey Shevchenko	
08:00	09:00	10:00	Volodymyr Tkachuk	Ivan Franko National University of Lviv, Ukraine	Studies of properties of physical systems on IBM's quantum computer
08:25	09:25	10:25	Paweł Gora	University of Warsaw & Quantum Al Foundation, Poland	Solving Vehicle Routing Problem using Quantum Computing
08:50	09:50	10:50	Coffee break		
09:05	10:05	11:05	Danylo Yakymenko	Institute of Mathematics, NAS of Ukraine	Algebraic structures for quantum algorithms and protocols
09:30	10:30	11:30	Filip Maciejewski	Center for Theoretical Physics, Polish Academy of Sciences	Efficient learning and benchmarking of readout noise cross-talk models in near-term quantum devices
				Folish Academy of Sciences	cross-taik models in near-term quantum devices
09:55	10:55	11:55	Coffee break		
10.10			I	1	I
10:10 10:35	11:10 11:35	12:10 12:35	Paolo Villoresi Robert Fickler	University of Padova, Italy Tampere University, Finland	Quantum Communications in Space Quantum Photonics using Structured Photons
11:00	12:00	13:00	Andreas Trügler	Know-Center, University of Technology Graz, Austria	Merging quantum and classical cryptography
				Austria	
11:15	12:15	13:15	Lunch break		
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Session 4				Moderator: Leonid Yatsenko	
12:00	13:00	14:00	Tommaso Calarco	Forschungszentrum Jülich, Germany	Building quantum technologies: from control to cooperation
12:35	13:35	14:35	Francesco Basso Basset	Sapienza University of Rome, Italy	Entangled photons from quantum dots, a resource for quantum communication
13:00	14:00	15:00	Coffee break		
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13:15	14:15	15:15	Mario Ziman	Research Center for Quantum Information, Institute of Physics of Slovak Academy of Sciences	Quantum Technology research initiatives in Slovakia
13:40	14:40	15:40	Sergey Shevchenko	Verkin Institute for Low Temperature Physics and Engineering, Ukraine	Quantum Control via Landau-Zener-Stuckelberg-Majorana Transitions
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14:05	15:05	16:05	Coffee break		
14:20	15:20	16:20	Vitaly Shumeiko	Chalmers University of Technology, Sweden	Wallenberg Centre for Quantum Technology at Chalmers
14:45	15:45	16:45	Alexander Kordyuk	Kyiv Academic University, Ukraine	Quantum research and education in Kyiv Academic University
15:10	16:10	17:10	Coffee break		
15:05	16:05	17.05	Valadymyr Charmer	Kuis Academia Universita Ulussias	Cuporconducting gubits boood -1t
15:25	16:25	17:25	Volodymyr Shnyrkov	Kyiv Academic University, Ukraine	Superconducting qubits based electronics
15:50	16:50	17:50	Mikhail Belogolovskii	Kyiv Academic University, Ukraine  O.Ya. Usikov Institute for Radiophysics and	Novel superconducting devices for quantum sensors and metrology
16:15	17:15	18:15	Konstantin Lukin	Electronics of National Academy of Sciences of Ukraine	Quantum Radar and Quantum Noise Radar
16:40	17:40	18:40	Closing		