

Thursday, 3 February 2022		
GMT+3	Chair: Zafer Gedik	<i>Speakers: please connect 10 min. before the session for tests</i>
10:20-10:30	Opening	
10:30-11:40	PLENARY TALK Susana Huelga (Ulm University)	Coherent Effects in Biological Systems: From reduced models to numerically exact simulations of the dynamics and spectral response of pigment protein complexes
11:40-12:15	Francesco Piazza (Max-Planck Institute for the Physics of Complex Systems)	Quantum Nonlinear Optics with a Fermi Surface
12:15-13:30	Break (Gather Town is available for discussions)	
GMT+3	Chair: Özgür Çakır	<i>Speakers: please connect 10 min. before the session for tests</i>
13:30-15:00	Poster presentations and pre-recorded talks at Gather Town	
15:00-15:35	Steve Campbell (University College Dublin)	Quantum speed limit in continuous variable systems
15:35-15:55	Göktuğ Karpat (Izmir University of Economics)	Synchronization and non-Markovianity in open quantum systems
15:55-16:15	Francesco Ciccarello (University of Palermo)	Quantum optics in topological and non-Hermitian photonic baths
16:15-17:00	Break (Gather Town is available for discussions)	
GMT+3	Chair: Onur Umucalılar	PLENARY TALK
17:00-18:10	Steven Girvin (Yale University)	Introduction to Circuit QED: Quantum Optics and Quantum Information Processing with Microwave Photons

Friday, 4 February 2022		
GMT+3	Chair: Hümeýra Çağlayan	Speakers: please connect 10 min. before the session for tests
10:20-10:30	Opening	
10:30-11:05	Mustafa Gündoğan (Humboldt University of Berlin)	Towards space-borne quantum memories: ideas and experimental roadmap
11:05-11:25	Serkan Paçal (Izmir Institute of Technology)	Quantum key distribution with single photons generated from defects in hexagonal Boron Nitride
11:25-12:00	Nicole Fabbri (LENS - European Laboratory for Non-Linear Spectroscopy)	Optimal control of a diamond spin-qubit sensor
12:00-12:20	Yusuf Karlı (University of Innsbruck)	High-fidelity biexciton generation in GaAs quantum dots by chirped picosecond pulses through Adiabatic Rapid Passage
12:20-13:30	Break (Gather Town is available for discussions)	
GMT+3	Chair: Sevilay Sevinçli	Speakers: please connect 10 min. before the session for tests
13:30-15:00	Poster presentations and pre-recorded talks at Gather Town	
15:00-15:20	Karol Gietka (Okinawa Institute of Science and Technology)	Exponentially enhanced quantum metrology by quenching superradiant light-matter systems beyond the critical point
15:20-15:40	Onur Danacı (IBM-HBCU/USA)	ManQala: engineering quantum states via a mancala game on real quantum board
15:40-16:15	Sina Zeytinoğlu (Harvard University)	Quantum signal processing and optimal Hamiltonian simulation using Rydberg atoms
16:15-17:00	Break (Gather Town is available for discussions)	
GMT+3	Chair: Alpan Bek	PUBLIC TALK
17:30-18:30	Mete Atatüre (Cambridge)	Kuantum Optik: İlk Yıllar, İlk Fikirler

<u>Pre-recorded Talks</u>	
Ege Özgün (Hacettepe University)	Quantum Computing in Penrose Unilluminable Room Geometry
Dario Alexander Chisholm (University of Palermo)	Non-local information encoding and the emergence of quantum Darwinism
Onur Pusuluk (Koç University)	Quantum Correlations in Jahn-Teller Molecular Systems Simulated with Superconducting Circuits
Rajni Bala (Indian Institute of Technology Delhi)	Error-immune quantum communication
Sooryansh Asthana (Indian Institute of Technology Delhi)	Interrelation of nonclassicality features through stabiliser group homomorphism
Sara Medhet (Quaid-i-Azam University)	Signatures of inter-band transitions on dynamical localization
Meriç Üngör & Öykü Yılmaz (Boğaziçi University)	A Quantum Finite Automaton Framework for the Study of the Energy Complexity of Computations
Mohammadsadegh Khazali (IQOQI)	Rydberg quantum simulator of topological insulators
<u>Poster Presentations</u>	
Elif Avinca (Gebze Technical University)	Spin-based planar optomagnonic cavities for microwave to optical photon conversion
Shakir Ullah (Hacettepe University)	Continuous variable quantum teleportation via entangled Gaussian state generated by a linear beam splitter
Sergey Polevoy (O. Ya. Usikov Institute for Radiophysics and Electronics)	The influence of effective constitutive parameters of a planar photonic crystal with a YIG film on the photon-magnon coupling strength
Darren Moore (Palacky University)	Hierarchy of quantum non-Gaussian conservative motion
Teodora Kirova (University of Latvia)	Azimuthal Modulation of Electromagnetically Induced Grating using Structured Light
Sergey Borisenok (Abdullah Gül University)	Small-Scale Artificial Neural Networks for Statistical Modeling and Controlling Quantum Systems