

Quantum Optics & Quantum Information Meeting 2021
Conference Program All times are GMT+3
Available from [Zoom](#) or [YouTube](#)

Thursday, 22 April 2021		
GMT+3	Chair: Kadir Durak	Speakers: connect 10 min. before the session for tests
10:00-10:05	Kadir Durak (Özyeğin)	Opening
10:05-10:35	Erhan Sağlamyürek (Alberta/Calgary)	Storing short pulses of single-photon-level light in Bose-Einstein condensates for high-performance quantum memory
10:40-11:35	Ataç İmamoğlu (ETH)	Atomically thin semiconductors: probing strongly correlated electrons using excitons
11:40-12:10	İnanç Şahin (Ankara)	Parallel Lives model and its implications on special theory of relativity
GMT+3	Chair: A. Levent Subaşı	Speakers: connect 10 min. before the session for tests
14:00-14:15	Belkis Gökbulut (Boğaziçi)	Enhanced spontaneous emission of fluorescent molecules coupled into quasi-optical modes in random media
14:15-14:45	Enderalp Yakaboylu (MPQ)	Molecular impurities as a realization of anyons on the two-sphere
14:50-15:05	Mahir Yeşiller (Koç)	Quantum information theory for fermions and its application in quantum biology
15:05-15:20	Gökhan Torun (Boğaziçi)	Resource theory of superposition: states transformation
GMT+3	Chair: M. Emre Taşgın	Speakers: connect 10 min. before the session for tests
15:50-16:20	Turan Birol (UMN)	First principles calculations in correlated materials
16:25-16:55	Deniz Yavuz (UWM)	Atomic metamaterials: progress and challenges
17:00-17:55	Marlan Scully (TAMU)	Using quantum mechanics to detect COVID-19 disease
GMT+3	Chair: Ö. E. Müstecaplıoğlu	EVENING TALK
20:30-21:30	Hakan Türeci (Princeton)	Machine learning with quantum dynamical systems

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GMT+3	Chair: Hümeýra Çağlayan	Speakers: connect 10 min. before the session for tests
10:15-10:30	Debabrata Goswami (IIT Kanpur)	Quantum Information processing with femtosecond laser-induced control
10:30-11:00	Renbao Liu (Hong Kong)	Quantum sensing of correlations inaccessible to nonlinear spectroscopy
11:05-11:35	Ahmet Avşar (Newcastle)	Extrinsic magnetism in a two-dimensional noble metal dichalcogenide
11:40-12:10	Irene D'Amico (York)	Distributed quantum information processing with spin networks
GMT+3		
13:00-13:40	Prerecorded Talk / Poster Q&A Session (Zoom Breakout Rooms)	
GMT+3	Chair: Devrim Tarhan	Speakers: connect 10 min. before the session for tests
14:00-14:15	Teodora Kirova (Latvia)	Ultrahigh-precision Rydberg atomic localization using standing waves and optical vortices
14:15-14:45	Şener Özönder (İstinye)	Physics and machine learning reunited
14:50-15:05	Farokh Mivehvar (Innsbruck)	Open quantum-system simulation of Faraday's induction law via dynamical instabilities
15:05-15:20	İskender Yalçınkaya (Czech TU)	Disorder-free localization in quantum walks
GMT+3	Chair: M. Zafer Gedik	Speakers: connect 10 min. before the session for tests
16:00-16:30	Cihan Okay (Bilkent)	A hidden variable model for universal quantum computation with magic states on qubits
16:35-17:05	Ahmad Salmanoglu (Çankaya)	Quantum radar
17:05-17:20	Fatih Dinç (Stanford)	Waveguide QED is inherently non-Markovian
17:25-17:30	M. Zafer Gedik (Sabancı)	Closing