

# International Workshop on Quantum Frontiers of Technology

November 8 – 11 2019, Gebze, TURKEY

## Program

### *November 9, Saturday*

08:00 – 09:15	<i>Breakfast</i>	<i>Breakfast</i>
09:30 – 10:20	<b>Alexander Lvovsky</b>	Schrödinger Cats in Quantum Optics and Quantum Technology
10:30 – 11:20	<b>Menno Poot</b>	Integrated Optomechanics and Linear Optics Quantum Circuits
11:30 – 12:00	<b>Oğuz Gülseren</b>	Exploring 2D Materials for Novel Applications from First-Principles
12:00 – 13:45	<i>Lunch</i>	<i>Lunch</i>
13:45 – 14:35	<b>Sergii Strelchuk</b>	Permutational Quantum Computing
14:45 – 15:15	<b>İnanç Adagideli</b>	Nonabelian Excitations at the Topological Edge: Time-resolved Electrical Detection of Chiral Edge Vortex Braiding
15:15 – 15:45	<b>Zafer Gedik</b>	Generalized Measurements and Quantum Computation
15:55 – 16:25	<b>Kadir Durak</b>	Entanglement as a Resource for Communication and Sensing
17:00 – 18:00	<b>Alexander Lvovsky</b>	<b>Public Lecture:</b> Quantum Physics: From Paradox to Technology
18:00 – 20:00	<b>Poster Presentations</b>	<b>Poster Presentations</b>

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### *November 10, Sunday*

08:00 – 09:30	<i>Breakfast</i>	<i>Breakfast</i>
09:30 – 10:20	<b>Eugene S. Polzik</b>	Measurement of Motion in the Negative Mass Reference Frame
10:40 – 11:10	<b>Özgür E. Müstecaplıoğlu</b>	Quantum Thermodynamics and Limits of Quantum Machines
11:20 – 11:50	<b>Ceyhun Bulutay</b>	Quantum Coherence and Control of Self-assembled Quantum Dots from a Computational Standpoint
11:50 – 13:30	<i>Lunch</i>	<i>Lunch</i>
13:30 – 14:20	<b>Winfried Hensinger</b>	Developing a Modular Microwave Trapped Ion Quantum Computer
14:40 – 15:10	<b>Cengiz Onbaşlı</b>	Materials and Devices for Integrated Topological Quantum Spintronics
15:10 – 15:40	<b>Serkan Ateş</b>	Optical Properties of Single Defects in Hexagonal Boron Nitride
15:40 – 17:00	<b>Poster Presentations</b>	<b>Poster Presentations</b>
17:00 – 18:00	<b>Eugene S. Polzik</b>	<b>Public Lecture:</b> Beyond Quantum Limits: Teleportation and Other Tricks
18:00 – 18:15	<b>Hasan Mandal President of TÜBİTAK</b>	Closing Speech