

# The Helen Diller Quantum Center Retreat Day 29.12.2022



<b>08:30-09:15</b>	<b>Gathering and Breakfast</b>	
09:20-09:30	Opening Remarks	Prof. Yosi Avron, Director, Helen Diller Quantum Center Prof. Michael Krueger, Retreat Director
09:30-09:50	Dr. Dustin Lazarovici	What do Bell tests actually test?
09:55-10:07	Anastasiya Vainbaum	Direct detection of quasiparticles in a strongly-interacting Fermi gas
10:10-10:22	Asaf Diringer	fast and efficient method for multi-mode control and entanglement
10:25-10:37	Maria Badarne	Nonvolatile tunable Ferroelectric-Superconducting Quantum Interference Devices
10:40-10:52	Yuval Abulafia	Topological properties and quantum entanglement features of graphene with vacancies
<b>10:52-11:10</b>	<b>Coffee Break</b>	
11:15-11:45	Prof. Rahul Jani	Quantum secure non-malleable-extractors
11:50-12:02	Itay Erez	Towards a measurement of parity violation in chiral molecular ions
12:05-12:17	Dr. Mohamed Attrash	High temperature spectroscopy of ensembles of nitrogen vacancy centers in diamond
12:20-12:32	Yoni Langbeheim	Mechanical Stabilization of Molecular Junctions Induced by Interaction with Polar Media
12:35-12:47	Evgenii Zheltonozhskii	Low-Temperature Phases of Dissipative Superconductor--Fractional Quantum Hall Junctions
12:50-13:02	Ron Ruimy	Free-electron Entanglement and Non-Gaussian Photonic States Through 'Which-Path' Information
<b>13:05-14:00</b>	<b>Lunch</b>	
14:00-14:30	Prof. Alexandra Boltasseva	TBD
14:35-14:47	Ron Ziv	Experimental Phase Retrieval of Matter Waves
14:50-15:02	Yigal Ilin	Learning discrete dynamics from Markovian steady states
15:05-15:35	Prof. Uzi Pereg	Communication with Unreliable Entanglement Assistance
<b>15:35-16:20</b>	<b>Poster Session</b>	
16:20-16:50	Prof. Gilad Gour	Role of Quantum Coherence in Thermodynamics
16:55-17:25	Prof. Vladimir Shalaev	TBD
<b>17:25</b>	<b>Closure and best talk announcement</b>	