

08:20	Pick-up from the Technion	
09:00-09:45	Breakfast	(Chair- Blank)
09:45-10:00	Opening Remarks- Prof. Yosi Avron, Director, Helen Diller Quantum Center & Prof. Yoav Sagi, Retreat Director	
10:00-10:15	Amir Sivan (Meir Orenstein)	"Collective multiphotonic quantum sources"
10:20-10:35	Noam Ophir (Anna Keselman)	"Doping-induced trion liquid formation at the excitonic insulator phase boundary"
10:40-10:55	Guy Moshel (Shay Hacohen-Gourgy)	"Cosmic rays impacts on superconducting microchips"
11:00-11:15	Yoav Chachamovitz (Uzi Pereg)	"Improved Sum Capacities for K-User Multiple Access Channels"
11:20-11:35	Thales A. B. Pinto Silva (Gelbwaser David)	"Quantum work: Reconciling quantum mechanics and thermodynamics "
11:35-12:00	Coffee Break	(Chair- Keselman)
12:00-12:15	Boyang Ma (Michael Krueger)	"Two-color Control of Attosecond Tunneling Currents in a Scanning Tunneling Microscope"
12:20-12:35	Chaja Baruch (Yotam Soreq)	"Constraining new CP violating nucleon interactions in diatomic eEDM searches"
12:40-12:55	Roy Rabaglia (Ari Turner)	"Topology and Geometry of Rotating Spinor Condensates: A Novel Kind of Topological Defects"
13:00-13:15	Liat Nemirovsky Levy (Moti Segev)	"Octopus States: New Type of Hyperentanglement"
13:20-13:35	Sutapa Ghosh (Gadi Eisenstein)	"Generation of quantum states of light with cross-Kerr nonlinearity"
13:35-15:15	Lunch break & Poster Session	(Chair- Pavel)
15:15-15:30	Eliana-Ruth Wallach (Yuval Shagam)	"Toward Parity Violation Measurement in Trapped Chiral Molecular Ions"
15:35-15:50	Amit Kam (Guy Bartal)	"Photon Entanglement in Total Angular Momentum"
15:55-16:10	Dekel Meirum (Tal Mor)	"Improving Performance of Variational Quantum Algorithms"
16:10-16:30	Coffee Break	(Chair- Bekenstein)
16:30-16:45	Chen Mechel (Ido Kaminer)	"Mode entanglement created by interacting super-radiant emitters"
16:50-17:05	Ilan Meltzer (Yoav Sagi)	"Coherent splitting and recombining of atoms using optical tweezers"
17:10-17:25	Tasneem Biadsy (Netanel Lindner)	"Variational Quantum Algorithms for Simulation of Lindblad Dynamics"
17:25-17:35	Closure & winners' announcement	Yoav
17:35	Transportation back to the Technion	