

Quantum Retreat 2026 — Program

July 8th Elma Hotel

Opening Session

08:45	Breakfast
09:30	Opening Remarks (Yosi, Ofer, Eliana & Oded)

Session A — Chair Person Yuval Shagam

09:40	Nevo Werner-Reiss (MSc/ Yuval Shagam/ Physics) "Towards Cold State Selected Preparation of CHDBrI+"
09:55	Chen Zhaopin (postdoc / Michael Krueger / Physics) "Field-driven ultrafast electron and hole dynamics in Dirac Materials"
10:10	Shuang Liu (PhD / Oren Cohen & Ofer Neufeld / Physics & Chemistry) "Optically Tunable Magnetic States in 2D Materials via Tailored Laser Driving"
10:25	Michael Birk (PhD / Oren Cohen / Physics) "Attosecond Path Qubits"
10:40	Dor Kopel (PhD / Yoav Sagi / Physics) "Light-assisted collisions in optical tweezers"
10:55	Anna Fjollson (PhD / Uri Peskin / Chemistry) "Symmetry-Adopted Boltzmann Subspaces and Local Temperatures in Molecular Junctions."
11:10	Coffee Break

Session B — Chair Person Michael Krueger

11:40	Ori Gabai (MSc / Gadi Eisenstein / EE) "Experimental Observation of the Relationship between Noise Squeezing of Light and Rabi Oscillations in Room-Temperature QD Ensembles".
11:55	Ohad Segal (PhD / Moti Segev / Physics) About Time: Observation of Time-Reflection at Optical Frequencies
12:10	Moshe Labaz (Pavel) Full field characterization of spatially multimode bright squeezed vacuum
12:25	Dan Cogan (Postdoctorat / Dudi Gershoni / Physics) TBD
12:40	Lior Fridman (Bartal) Hyperentanglement in Nanophotonic Systems With Discrete Rotational Symmetry
12:55	Elad Zehavi (PhD / Avi Zadok / EE) "Bright Seeded and Quasi-Continuous Two-Mode Intensity Squeezing in Commercial Fiber."
13:10	Lunch + Poster Session

Session C + D (Parallel) Chair Person Ofer Neufeld + Guy Bartal

15:10	Shai Levy (Bekenstein) Ultrafast Free-Electron Induced Superfluorescence in Halide Perovskite Quantum Dot Assemblies	Nir Gutman (PhD / Ariel Ordea / EE) "Measurement informed routing in quantum networks"
15:25	Michael Stern "Strong coupling of a superconducting flux qubit to single bismuth donors in silicon".	Alon Lifshits (Kaminer) Emergent Curvature from Flat-Space QFTs: A Computational Search for Gravity

15:40	Natan Karaev (PhD / Shay Hachohen Gourgy / Physics) "Analytical Fock-State Generation and SWAP using a Rabi-Driven Qubit"	Rajeev Gangwar (Gilad Gour) "Causal and Noncausal Information Revivals in Quantum Stochastic Non-Markovian Processes"
15:55	Yonatan Lin (Keselman) "Probing Spinon Interactions in the Bilinear-Biquadratic Spin-1 Chain"	Michael Korenberg (Uzi Pereg) "Quantum Action-Dependent Channels"
16:10	Igor Khanonkin (Orenstein) "Superradiant Light from Quantum Emitters in Two-Dimensional Materials"	Ziv Chen (PhD / Steve Frenkel & Uzi Pereg/ Mechanical Eng. & EE)) "Quantum PINNs for Maxwell's Equations: GPU Acceleration and Black-Hole Loss Mitigation"
16:25	Frieder Conradt (Postdoc / Ron Tenne / Chemistry) "Observing fast phase transitions in individual nanocrystals through single-photon detection"	
16:40	Wine Masterclass & Announcement of Winning Poster	
18:00	Transportation back to the Technion	