ASSOCIATION OF ENGINEERS, ARCHITECTS AND GRADUATES IN TECHNOLOGICAL SCIENCES IN ISRAEL

Oasis 9

International Conference & Exhibition on Optics & Electro-Optics

10-11 March, 2025 | David InterContinental Hotel, Tel-Aviv, Israel

KALEIDOSCOPE Conferences Events Exhibitions

Monday March 10, 2025

08:00 – 09:00	Breakfast & registration
09:00 – 10:55	**Opening session – Plenary Hall**
09:00–09:20	**Chairperson: Prof. Abraham Katzir,** *Chairman of Oasis 2025*
09:20–09:25	**Opening: Guy Shasha,** *Chairman of the The Association of Engineers, Architects and Graduates in Technological Sciences in Israel*
09:25–09:35	**Opening: Dr. Alon Stopel,** *Chairman of the Innovation Authority and Chief Scientist for Innovation at the Ministry of Innovation, Science and Technology*
09:35–10:20	**Plenary lecture: Artificial Intelligence and Cyber Security**
	Prof. Isaac Ben-Israel, *Director, Cyber Research Center, Tel-Aviv University*
10:20 – 11:05	**Plenary lecture: Silicon Photonics**
	Prof. Avinoam Zadok, *Faculty of Electrical and Computer Engineering, Technion*
11:05 – 11:30	Coffee break and Posters review

11:30 – 13:00 | Parallel Session 1

	Hall A	Hall B	Hall C	Hall D	Hall E
	Optical Engineering **Dr. Tali Hurvitz**	**Atomic and Quantum Optics** **Dr. Ofer Kfir**	**Lasers and Applications** **Dr. Shaul Pearl** Session independently sponsored by EKSMA OPTICS	**Electro-Optics in Industry** **Dr. Alex Ayalon** Session independently sponsored by IAI	**Electro-Optics in Defense** **Mr. Dov Oster** Session independently sponsored by RAFAEL ADVANCED DEFENSE SYSTEMS LTD.
	Invited – 30′ **Prof. Uriel Levy** *Department of Applied Physics, Center for nanoscience and nanotechnology, The Hebrew University of Jerusalem* Metasurfaces: Capabilities and limitations	**Invited** – 30′ **Prof. Maria Chekhova** *Max Planck Institute for the Science of Light, Erlangen, Germany* Quantum measurement through parametric amplification	**Invited** – 30′ **Dr. Liad Levi** *Rafael Advanced Defense System* High power DPAL (Diode Pumped Alkali Laser)	**Invited** – 20′ **Dr. Eyal Shekel** *Civan Lasers* Dynamic beam laser for welding and metal additive manufacturing: Advancing fiber Laser technology through coherent beam combining and optical phased arrays	15′ **Dr. Mara Baraban** *Rafael Advanced Defense System* Experimental approaches to optical atmospheric turbulence measurements
	Invited – 30′ **Prof. Natan Shaked** *Department of Biomedical Engineering, Tel Aviv University* Holographic multiplexing for acquiring wavefronts of rapid dynamics for optical metrology applications	15′ **Mr. Stav Lotan** *Technion – Israel Institute of Technology* Leveraging sparsity for efficient detection of entanglement in high	15′ **Dr. Yaakov Glick** *Lasers Department, Applied Physics Division Soreq NRC* 40mJ energy, high power, pulsed all-fiber amplifier	**Invited** – 20′ **Dr. Yoram Karni** *SCD* Advancements in miniaturization, weight reduction, and power optimization for infrared imaging systems by SCD	15′ **Dr. Zeev Schiffer** *Elbit Systems, iSTAR Division-Elop* Pros and cons for Super-Gaussian based CBC
	15′ **Mr. Mor Elgarisi** *Technion – Israel Institute of Technology* Fluidic approach to corrective eyewear manufacturing	15′ **Mr. Shaul Katznelson** *Technion – Israel Institute of Technology* Superfluorescent scintillation from coupled Perovskite quantum dots	15′ **Mr. Nitzan Haviv** *Department of Physics and Solid-State Institute, Technion* Noise suppression in gain-managed nonlinear amplifiers	**Invited** – 20′ **Dr. Rani Ditcovski** *Triarii Research* Quantum key distribution demonstration	15′ **Dr. David El-Chai Ben-Ezra** *Soreq NRC* Tuning event camera biases heuristic for detection applications in staring scenarios
	15′ **Mr. Ariel Ashkenazy** *Bar-Ilan University* All-optical, computation-free time-multiplexing super-resolved imaging based on speckle illumination	15′ **Dr. Shay Elmalem** *Department of Physics of Complex Systems, Weizmann Institute of Science* Massively multiplexed wide-field photon correlation sensing	15′ **Prof. Salman Noach** *Jerusalem College of Technology* Widely tunable, pulsed Tm:YAP laser, based on an Active / Passive Q switch with Yag etalons	**Invited** – 15′ **Mr. Andrés Cifuentes** *ASE OPTICS, Spain* Compact high-resolution LWIR optical system for the Earth Observation in support of smart farming	**Invited** – 30′ **BG (res.) Eytan Eshel** *IAI, EVP R&D, technology and innovation (CTO)* Innovation in a defense company
		15′ **Mr. Gilad Pollack** *Tel-Aviv University* Correlation of purely spatial bell-state measurements in event-based single-photon camera	15′ **Dr. Zaharit Refaeli** *Soreq NRC* Bandwidth control and frontal contrast for a high-joule mixed Nd:glass ultrafast laser for proton acceleration	**Invited** – 15′ **Mr. Aviv Ronen** *Beckermus Technologies* Advancing photonic and optic chip packaging: challenges and technological solutions	
13:00 – 14:00	Lunch Break				

14:00 – 14:15	Poster Review				
14:15 – 15:45 | Parallel Session 2					
	Hall A	**Hall B**	**Hall C**	**Hall D**	**Hall E**
	Spectroscopy and Optical Sensing **Prof. Tal Ellenbogen**	**Electro-Optics Devices** **Prof. Ilya Goykhman** Session independently sponsored by FAST Laser GROUP Ltd. קבוצת לייזר מהיר בע"מ Fiber optic professionals	**Start-Up's Pitch** **Dr. Aviv Zeevi**	**Nonlinear Optics** **Prof. Avinoam Zadok**	**Optics in Medicine and Biology** **Prof. Yuval Garini** Session independently sponsored by Acktar Advanced Coatings
	Invited – 30′ **Prof. Dr. Christoph Lienau** *University of Oldenburg, Institute of Physics, Germany* Two-dimensional electronic spectroscopy of many-body correlations in quantum materials	**Invited** – 25′ **Prof. Shaya Fainman** *University of California, San Diego* Foundry enabled chip-scale photonics technology and applications	***eikolos*** *Optical Communications* **Mr. Ofir Nichtern** ***LightBridge*** *Optical Communications* **Mr. Mordechai Rodgold** ***Quantum Pulse LTD*** *Integrated Photonics* **Mr. Ofer Shapira** ***Atlantis*** *Photonics, Semiconductors* **Mr. Eyal Terkieltaub Lee** ***Tervizio*** *Lidar Sensors* **Mr. Boaz Mell** ***Diamsense Ltd*** *Quantum Sensors, Medical Devices* **Mr. Dotan Duek** ***Spiral Photonics*** *Imaging, Photonics* **Dr. Eyal Hollander** ***Frenel Imaging Ltd.*** *Thermal Imaging* **Mr. Arik Nir** ***LiteBC*** *Medical Devices* **Dr. Or Peleg** ***Laser Team Medical Ltd.*** **Mr. Pini Ben-Elazar** ***Quantum Source*** *Quantum Computing* **Dr. Yair Margalit** ***FVMat*** *Materials, Optics* **Mr. Guy Ben-Dov** ***Sky-Walls LTD*** *Smart Building* **Ms. Hilany Yelloz**	**Invited** – 20′ **Prof. Guy Bartal** *Faculty of Electrical and Computer Engineering, Technion* Nonlinear optics for real-time nanoscopy	**Invited** – 25′ **Prof. Dror Fixler** *Faculty of Engineering, Bar Ilan University* Self-calibrated single-wavelength biosensor for extracting cardiac parameters
	15′ **Mr. Tamir Shpiro** *Technion – Israel Institute of Technology* 4D near-field electron tomography	**Invited** – 25′ **Dr. Boris Desiatov** *Bar Ilan Institute of Technology* Integrated photonics on thin-film lithium niobate		14′ **Mr. Yaakov Neustadter** *Soreq NRC* Kerr frequency comb generation in Saddle-Shape microresonators	**Invited** – 25′ **Prof. Ori Katz** *Institute of Applied Physics, The Hebrew University of Jerusalem* Noninvasive megapixel fluorescence microscopy through scattering layers by a virtual incoherent reflection matrix
	15′ **Mr. Idan Kizel** *Tel Aviv University* Stacking-dependent photoluminescence modulation in bilayer and trilayer 3R-MoS2 via asymmetric dielectric environments	**Invited** – 25′ **Dr. Grisha Spektor** *Octave Photonics* Atomic-photonic interfaces via linear and nonlinear photonics for the real world		14′ **Dr. Gil Bashan** *Tel Aviv University* Optically programable quasi phase matching in four-wave mixing	**Invited** – 25′ **Dr. Raya Sorkin** *School of Chemistry, Tel Aviv University* Optical tweezers provide insight into membrane remodeling
	Invited – 30′ **Prof. Yehonadav Bekenstein** *Technion – Israel Institute of Technology* Engineering fast emitters using halide perovskite nanocrystal heterostructures and superlattices	15′ **Mr. Eitan Kaminski** *Technion – Israel Institute of Technology* Waveguide integrated MoS2-based photodetectors in the shortwave IR		14′ **Mr. Alon Krause** *Bar-Ilan University* Highly-efficient and stable Second Harmonic Generation (SHG) from para red organic crystals	10′ **Ms. Tamar Harary** *Andrew and Erna Viterbi Faculty of Electrical & Computer Engineering, Technion* Large-field-of-view optical-resolution optoacoustic microscopy employing a stationary silicon-photonics acoustic detector for both reflection and transmission imaging configurations
				14′ **Ms. Naama Harcavi** *Ben Gurion University of the Negev* Optical nonlinearity of transparent conducting oxides – more metallic than realized	10′ **Mr. Jonathan Jeffet** *School of Physics and Astronomy, Tel Aviv University* Multi-color super-resolution imaging using spectral confocal spinning disk image scanning microscopy
				14′ **Ms. Sutapa Ghosh** *University of Maryland, MD, USA* Strong tunable nonlinearity in atomic vapor induced by an optical frequency comb	
15:45 – 16:15	Coffee break and Posters review				

16:15 – 17:45 | Parallel Session 3

	Hall A	Hall B	Hall C	Hall D	Hall E
	Micro and Nano Optics **Prof. Alina Karabchevsky**	**Quantum Computers** **Prof. Nadav Katz**	**Ultrafast Phenomena** **Dr. Marcus Gilad**	**Artificial Intelligence in Optics** **Prof. Yoav Shechtman**	**Lasers and Applications** **Dr. Shaul Pearl** Session independently sponsored by bi-POL
	Invited – 30′ **Prof. Tal Carmon** *Photonic Enhancement Laboratory, School of Electrical Engineering, Faculty of Engineering, Tel Aviv University* Introducing new phases of matter to microphotonics	**Invited** – 30′ **Prof. Barak Dayan** *Weizmann Institute of Science and Quantum Source Labs* Atom-mediated large-scale photonic quantum computing	**Invited** – 25′ **Dr. Ofer Neufeld** *Technion – Israel Institute of Technology* Ultrafast magnetism: novel control schemes and probes	**Invited** – 25′ **Prof. Ron Kimmel** *The Technion Montreal Chair in Sciences Professor of Computer Science* Professor of Electrical & Comp. Eng. (courtesy) Learning geometry: Some recent bits	15′ **Mr. Shmuel Freudenstein** *Civan Lasers* Enhanced free space optical communication (FSOC) by coherent beam combining with optical phased array lasers
	Invited – 30′ **Prof. Dan Marom** *The Institute of Applied Physics, The Hebrew University of Jerusalem* 3D-nanoprinted photonic solutions	**Invited** – 30′ **Prof. Yaron Bromberg** *Racah Institute of Physics at the Hebrew University of Jerusalem* Boosting photonic quantum computation with multi-qubit encoding in single photons	12′ **Dr. Yariv Shamir** *Soreq NRC* Widely wavelength-tunable amplified all-normal-dispersion laser aimed to excite Thorium-229 VUV transition	**Invited** – 25′ **Prof. Natan Shaked** *Department of Biomedical Engineering, Tel Aviv University* Deep2Deep: Label-free interferometric imaging for automatic classification and virtual staining of biological cells	15′ **Dr. Omri Wolf** *LightSolver LTD* LightSolver's all-optical laser-based analog computer
	Invited – 20′ **Dr. Itai Epstein** *Tel Aviv University* Nanometer-scale phononic resonators for far-infrared radiation	15′ **Mr. Roey Shafran** *Technion – Israel Institute of Technology* Tomography of hyperentangled single photon states with a single measurement setup	12′ **Ms. Gili Scharf** *Tel Aviv University* Coherent control of phonon anharmonicity	10′ **Mr. Oded Rotem** *Ben Gurion University* Brightfield to fluorescence microcopy transfer via diffusion models	15′ **Dr.Yaniv Vidne** *Civan Lasers* Development of a 130kW high-power fiber laser system with enhanced reliability and compactness based on CBC technology
	10′ **Mr. Matan Slook** *Technion – Israel Institute of Technology* Highly reconfigurable silicon-photonic filter stage		12′ **Mr. Omri Meron** *Tel Aviv University* Shaping exciton polarization dynamics in 2D semiconductors by tailored ultrafast pulses	10′ **Mr. Dafei Xiao** *Technion – Israel Institute of Technology* A one-click software for PSF-engineering-based 3D localization microscopy	15′ **Dr. Aviran Halstuch** *School of Electrical and Computer Engineering, Ben-Gurion University of the Negev* Femtosecond inscription of fiber Bragg gratings and Fabry-Perot interferometers structures for various applications
	10′ **Dr. Jacob Engelberg** *The Hebrew University of Jerusalem* Nature inspired design methodology for a wide field of view achromatic metalens		12′ **Mr. Tomer Bucher** *Technion-Israel Institute of Technology* Ultrafast dynamics of correlated optical singularities	10′ **Ms. Dana Aharoni** *Department of Biomedical Engineering, Tel Aviv University* AI-aided rapid cell classification using label-free interferometric imaging flow cytometry	15′ **Mr. Aaron Liberman** *Weizmann Institute of Science* Algorithmically measuring the spectrally resolved wavefront of an ultrashort laser
			12′ **Mr. Yoad Aharon** *The Hebrew University of Jerusalem* Mechanism of resonant enhancement in HHG	10′ **Dr. Amir Handelman** *Holon Institute of Technology* Flexible polymeric all-optical logic gates	15′ **Mr. Ya'akov Mandelbaum** *Jerusalem College of Technology (JCT) – Lev Academic Center* Advanced optical analysis of focal-point divergence between surgical neodymium-doped yttrium aluminum Garnet (Nd:YAG) and aiming beam lasers

Tuesday March 11, 2025

08:00 - 09:00	Coffee and registration
09:00 - 10:00	**Opening session - Plenary Hall**
09:00 - 09:05	**Chairperson: Prof. Abraham Katzir**, *Chairman of Oasis 2025*
09:05-09:10	Start-up session: Promising innovation award ceremony
09:10- 09:50	**Plenary lecture: Electro-Optics in Defense**
	Beyond the Iron Dome - Shaping the Future of Israeli Innovation **Brig. Gen. (Ret.) Dr. Daniel Gold**, *Head of DDR&D, Israeli Directorate of Defense Research & Development, at the Israeli Ministry of Defense*
09:50 - 10:30	**Plenary lecture: High Power Laser Defense**
	Mr. Oded Ben David, *CTO Elbit Systems ISTAR & EW ELOP*
10:30 - 10:50	Coffee break and Posters review

10:50 - 12:20 | Parallel Session 4

	Hall A	Hall B	Hall C	Hall D	Hall E
	Atomic and Quantum Optics **Dr. Ofer Kfir**	**Electro-Optics Devices** **Prof. Ilya Goykhman**	**Optical Engineering** **Dr. Tali Hurvitz**	**Nonlinear Optics** **Prof. Avinoam Zadok**	**Artificial Intelligence in Optics** **Prof. Yoav Shechtman**
	Invited - 30′ **Dr. Ran Finkelstein** *School of Physics and Astronomy, and Tel Aviv Quantum Center, Tel Aviv University* Atomic arrays as programmable quantum sensors and processors	**Invited** - 25′ **Prof. Pavel Ginzburg** *Tel Aviv University* Optics behind drug screening and delivery	**Invited** - 30′ **Dr. Shany Danieli** *School of Physics and Astronomy, Tel Aviv University* Revealing the hidden universe with telephoto lenses	**Invited** - 25′ **Prof. Polina Bayvel** *Professor of Optical Communications & Networks. Dept of Electronic & Electrical Eng. Faculty of Engineering Sciences, UCL, London, England* How wide can you go - the challenges in designing ultrawideband optical fibre communications Systems & networks	**Invited** - 25′ **Prof. Adrian Stern** *Ben Gurion University* How does deep learning help optics and what optics can do for deep learning?
	15′ **Mr. Amir Sivan** *Technion - Israel Institute of Technology* Superradiating photon entanglement source with multilevel atoms	**Invited** - 25′ **Dr. Richard Pitwon** *Seagate Research / Resolute Photonics* Heat assisted magnetic recording - The path the utra-high volume co-packaged optical integration	15′ **Mr. Omer Luria** *Technion - Israel Institute of Technology* In-situ optical surface reconstruction of liquid mirrors in microgravity experiments	15′ **Mr. Daniil Ansimov** *The laboratory of Nanoscale Electro Optics, Tel Aviv University* Enhanced second harmonic generation from a nonlinear plasmonic metasurface coupled to an optical waveguide in a LiNbO thin film	**Invited** - 20′ **Dr. Erez Yosef** *Electrical Engineering, Tel Aviv University* DifuzCam: Replacing camera lens with a mask and a diffusion model
	15′ **Mr. Ariel Ashkenazy** *Bar-Ilan University* Single-photon Raman interaction for realizing the photon-number splitting attack	**Invited** - 25′ **Dr. Roy Zekzter** *The Hebrew University of Jerusalem* Electro-optic platforms for precision light-atom interactions	15′ **Mr. David Halfon** *The Hebrew University of Jerusalem* 3D-printed coupling aids for efficiently interfacing silicon chip to rectangular core fiber	15′ **Mr. Yonatan Plotnik** *Technion - Israel Institute of Technology* Momentum band gap engineering using noncolinear moving photonic time crystals	15′ **Prof. Alon Bahabad** *Tel-Aviv University* Optical inference using nonlinear optical diffraction
	15′ **Mr. Ron Ziv** *Technion - Israel Institute of Technology* Experimental phase retrieval of atomic matter waves	15′ **Ms. Vered Riven** *The Institute of Applied Physics, The Hebrew University of Jerusalem* Line-by-line spectral amplitude/phase modulation of an optical frequency comb	15′ **Mr. Alon Geller** *Light Engineering* Designing zoom lenses from scratch: using the varifocal differential equation	15′ **Dr. Miri Blau** *Columbia University, NY, USA* Higher dimensional quantum photonics in the frequency domain	10′ **Mr. Matan Kleiner** *Technion - Israel Institute of Technology* Coherence awareness in diffractive neural networks
	15′ **Dr. Georgi Gary Rozenman** *MIT Department of Physics. Group of Wolfgang Ketterle at MIT, MA, USA* Prospects of free-space quantum key distribution using spatial modes of light: Scaling-up the dimensionality and the distance		15′ **Mr. Arie Amitzi** *QCC Hazorea Calibration Technologies* Using fluorescence for laser beam alignment and measurements	15′ **Mr. Yuval Reches** *Tel Aviv University* Efficient robust spontaneous parametric down-conversion via detuning modulated composite segments designs	10′ **Mr. Nimrod Shabtay** *Tel-Aviv University* Deep phase coded image prior
				15′ **Mr. Barak Messika** *Department of Electrical and Computer Engineering and Solid-State Institute, Technion - Israel Institute of Technology* Kerr beam self-cleaning of multi-millijoule pulses in large mode-area graded index fiber	10′ **Mr. Roy Maman** *The Hebrew University of Jerusalem* Achromatic imaging systems with flat lenses enabled by deep learning

12:20 – 13:50	Lunch Break				
13:50 – 15:20 | Parallel Session 5					
	Hall A	**Hall B**	**Hall C**	**Hall D**	**Hall E**
	Ultrafast Phenomena **Dr. Marcus Gilad**	**Electro-Optics in Defense** **Mr. Dov Oster** Session independently sponsored by RAFAEL ADVANCED DEFENSE SYSTEMS LTD.	**Spectroscopy and Optical Sensing** **Prof. Tal Ellenbogen**	**Electro-Optics in Industry** **Dr. Alex Ayalon**	**Micro and Nano Optics** **Prof. Alina Karabchevsky**
	Invited – 25′ **Prof. Michael Krueger** *Ultrafast Quantum Dynamics Group, Physics Department, Technion* Attosecond physics in solids goes quantum	**Invited** – 30′ **Dr. Daniel Golubchik** *Rafael Advanced Defense Systems* Adaptive optics for deep turbulence applications	15′ **Dr. Heinrich Ruser** *Institute for Applied Physics and Measurement Technology, University of the Bundeswehr Munich, Germany* New single-particle TOF mass spectrometer coupled with deep learning for on-site classification of aerosol particles	**Invited** – 20′ **Dr. Hadar Greener** *Applied Materials* Tailoring light-matter interactions for optical wafer inspection	**Invited** – 20′ **Prof. Stanislav Derevyanko** *Associate professor, School of Electrical and Computer Engineering, Ben Gurion University of the Negev, Beersheva, Israel* Mode locking and rogue waves in Q-switched solid-state laser
	12′ **Ms. Or Refaely** *Bar Ilan University* Temporal chirpless microscope	15′ **Dr. Dov Steiner** *IARD Sensing Solution* New modeling features in TRM4 version 4	15′ **Mr. Omri Haim** *The Hebrew University of Jerusalem* Image-guided computational holographic wavefront shaping	**Invited** – 20′ **Dr. Igor Turovets** *Nova Ltd.* Optical methods for advanced packaging process control	20′ **Ms. Maya Shor Peled** *Ben Gurion University of the Negev* Super-resolution imaging using photonic nanojet through tapered optical fiber
	12′ **Ms. Michal Elkind** *Tel Aviv University* Intense laser interaction with micro-bars	15′ **Dr. Eyal Agassi** *Independent Consultant* Estimating probabilities of cloud-free lines-of-sight through the atmosphere - Lund and Shanklin method revisited	15′ **Ms. Anabel Atash** *Tel Aviv University* On the optical modeling of excitons in 2D semiconductors	**Invited** – 20′ **Dr. Shay Joseph** *Rafael Advanced Defense Systems* Methods for protection of electro-optical seeker heads against electro-magnetic radio frequency interference	15′ **Dr. Asaf Farhi** *Tel Aviv University* Observation of localized resonant phonon polaritons in biaxial α-MoO3 nanoparticles
	12′ **Ms. Shiri Gvishi** *Tel Aviv University* Quantum paths interference signatures in trARPES	15′ **Dr. Ofer Yaron** *Rafael Advanced Defense Systems* IR imaging quality prediction	15′ **Ms. Shahaf Noimark** *Bar Ilan University* Non-destructive opto-mechanical analysis of fiber coating layers	**Invited** – 15′ **Dr. Aviran Halstuch** *Ben-Gurion University of the Negev* Femtosecond laser welding of BK7 glass to aluminium alloys for industrial applications	15′ **Mr. Oded Schiller** *Technion – Israel Institute of Technology* Negative index makes a perfect time lens
	12′ **Mr. Michael Tulchinsky** *Technion – Israel Institute of Technology* Saturation model for photonic time crystals	15′ **Dr. Roy Gomel** *Israel Aerospace Industry (IAI)* Optimization of the radiometric spectral band in target radiance estimation process	15′ **Mr. Ya'akov Mandelbaum** *Jerusalem College of Technology (JCT) – Lev Academic Center* Tips vs. holes: ×10 higher scattering in FIB-made plasmonic nanoscale arrays for spectral imaging	15′ **Dr. Efi Rotem** *MKS Instruments* Design of reference optical receiver with 50GHz bandwidth for use in high speed fiber optic systems	10′ **Mr. Amit Kam** *Technion – Israel Institute of Technology* Total Angular momentum as a pathway to entangle surface-plasmon polaritons
	12′ **Mr. Aaron Liberman** *Weizmann Institute of Science* Laser wakefield acceleration with an axiparabola and spatiotemporal couplings		15′ **Mr. Elad Zehavi** *Bar-Ilan University* Generation of non-classical light in an all-fiber SU1,1 interferometer		10′ **Mr. Yehuda Baum** *Tel Aviv University* Ultra-broadband wide-angle anti-reflection scheme utilizing multi-layer resonant metasurfaces
15:20 – 15:50	Coffee break and Posters review				

15:50 – 17:20 | Parallel Session 6

	Hall A	Hall B
	Optics in Medicine and Biology **Prof. Yuval Garini**	**Quantum Computers** **Prof. Nadav Katz**
	Invited – 25′ **Prof. Dvir Yelin** *Faculty of Biomedical Engineering, Technion* Imaging tympanic membrane vibrations	**Invited** – 30′ **Prof. Netanel Linder** *Associate Professor, Department of Physics, Technion* TBC
	Invited – 25′ **Prof. Adrian Stern** *School of Electrical and Computer Engineering, Ben Gurion University* Compressive sensing methods for rapid hyperspectral microscopy	**Invited** – 30′ **Prof. Shay Hacohen-Goury** *Department of Physics, Technion – Israel Institute of Technology* Fast operations on Bosonic qubits in superconducting quantum circuits
	10′ **Prof. Salman Noach** *Jerusalem College of Technology* Novel Ablative Tm:YAP pulsed laser for dermatology applications	15′ **Mr. Chen Scheim** *The Hebrew University of Jerusalem* Quantum error correction with adiabatic quantum computation
	10′ **Ms. Eden Dotan** *Department of Biomedical Engineering, Tel Aviv University* Label-free imaging flow cytometry using a motion sensitive camera for rare cell detection	15′ **Dr. Adi Pick** *The Hebrew University of Jerusalem* Hybrid quantum annealing algorithms for combinatorial optimization with Rydberg qubits
	10′ **Dr. David Sinefeld** *Jerusalem College of Technology* Planar objective design for multiphoton mouse brain imaging	
	10′ **Mr. Ron Moisseev** *Technion – Israel Institute of Technology* All-Optical approach to ultrasound transmission matrix measurement	