

QERNEL Launch Event

April 20, 2025

Bar-Ilan University, Engineering building 1102 [[map](#)]

Registration: <https://qernel.org/events>

Contact info: events@qernel.org

Program	9:00-9:30	Refreshments and Registration
	9:30-9:40	Greetings
	9:40-10:20	Invited Lecture - Sabine Tornow
	10:20-11:40	Contributed talks WP1 (1-4)
	11:40-11:50	Group photo
	11:50-13:10	Lunch (Rosmarin restaurant [map])
	13:10-13:40	Unveiling QERNEL
	13:40-15:00	Contributed talks WP2 (5-8)
	15:05-15:20	Coffee break
	15:20-17:00	Contributed talks WP3 (9-13)

Invited Lecture

Sabine Tornow, Bundeswehr University

“Quantum Trajectories and First Hitting Times on a Quantum Computer “

Contributed talks

	Speaker		Affiliation	Title
1	Ziv	Chen	Technion	Quantum Machine Learning for Predicting and Controlling Fluid Flows
2	Noam	Rimock	Tel Aviv	Generalized type-2 fusion of graph states
3	Ohad	Lev	Bar-Ilan	Atypical Design Schemes for Lean Quantum-Classical Hybrid Algorithms.
4	Amit	Te'eni	Bar-Ilan	Oracle problems as communication tasks and optimization of quantum algorithms
5	Liam	Bernheimer	Tel Aviv	Determinant- and derivative-free quantum Monte Carlo within the stochastic representation of wavefunctions
6	Jader P.	dos Santos	Jerusalem	SPAM error mitigation for dynamic circuits
7	Nikita	Leppenen	Weizmann	Interplay between collective and local dissipation in quantum open systems
8	Shuanger	Ma	Bar-Ilan	Loss of resonances for noisy quantum recurrence with restarts
9	Einat	Buznach Ahituv	Bar-Ilan	Unveiling a hidden percolation transition in monitored Clifford circuits
10	Raz	Firanko	Technion	Structure and complexity of steady states of local quantum channels
11	David	Shnaiderov	Bar-Ilan	Optimal strategies for characterizing crosstalk in superconducting quantum computers
12	Khen	Cohen	Tel Aviv	Ergodic MBL on a boson sampler
13	Daniel	Azses	Tel Aviv	Nonunitary gates using measurements only