

QUANTUM COMPUTING ON THE CLOUD – EARLY ADOPTERS MEETING

Bar-Ilan University, September 13, 2021

<http://tiny.cc/QEAM21>

Program

8:30-9:00	Registration
9:00-9:30	Opening Remarks
9:30-10:00	"Identification of Symmetry-Protected Topological States on Noisy Quantum Computers" Daniel Azses, Tel Aviv University
10:00-10:30	"Distributed quantum computing with classical communication" Ofer Casper, Technion
10:30-11:00	"Neural networks for state-preparation-and-measurement (SPAM) error mitigation" Frima Kalyuzhner, Bar-Ilan University
11:00-11:30	Coffee break
11:30-12:00	"Cloud-based experiments on many-body dynamics with IBM Quantum devices" Haggai Landa, IBM Research, Haifa
12:00-12:30	"A comparison between D-wave and a classical approximation algorithm and a heuristic for computing the ground state of an Ising spin glass" Rami Pugatch, Ben Gurion University
12:30-13:00	"Simulating long-range hopping with periodically-driven superconducting qubits" Mor Roses, Bar-Ilan University
13:00-14:30	Lunch break
14:30-15:00	"Adiabatic crossing of a Floquet topological quantum phase transition on a quantum computer" Eran Sela, Tel Aviv University
15:00-15:30	"Playing quantum nonlocal games with six noisy qubits on the cloud" Meron Sheffer, Bar-Ilan University
15:30-16:00	"Purity loss and the diagnostics of quantum circuits using periodic driving" Raam Uzdin, Hebrew University
16:00-16:30	Coffee Break
16:30-17:15	Invited virtual talk "Unbiasing Fermionic Quantum Monte Carlo with a Quantum Computer" Joonho Lee, Columbia University / Google Quantum AI
17:15-18:00	Invited virtual talk "Quantum simulations in the NISQ era: Simulating Hamiltonian dynamics on a quantum computer using the off-diagonal series expansion" Itay Hen, University of Southern California