Sunday, December 17, 2017		
Start	**End**	
8:45	9:45	Gathering and registration
9:45	10:00	Opening
Chair: Robert A. DiStasio		
10:00	10:40	Eberhard K. U. Gross (Max Planck Institute of Microstructure Physics, Germany) Non-adiabatic dynamics on a single time-dependent potential energy surface
10:40	11:20	Lucia Reining (Ecole Polytechnique, France) About the design of frequency-dependent potentials and interactions
11:20	12:00	Roi Baer (Hebrew University of Jerusalem, Israel) Stochastic DFT
12:00	13:30	Lunch
Chair: George Booth		
13:30	14:10	Daniel Neuhauser (University of California, Los Angeles, USA) Stochastic Long-Range Exact Exchange for DFT and TDDFT
14:10	14:50	Tyler Takeshita (University of California, Berkeley, USA) A Stochastic Formulation of the Resolution of Identity: Application to Second Order Moller-Plesset Perturbation Theory
14:50	15:30	Coffee break
15:30	16:10	Daniel Reich (University of Kassel, Germany) Speeding up the resolution of identity using mutually unbiased bases
16:10	18:10	Poster session & beer
18:15		Bus to hotels

Talks are limited to 30 minutes followed by 10 minutes discussion.

Monday, December 18, 2017		
Start	**End**	
8:30	9:00	Gathering
Chair: Guy Cohen		
9:00	9:40	Philipp Werner (University of Fribourg, Switzerland) Self-consistent GW+DMFT simulation of correlated materials
9:40	10:20	Leeor Kronik (Weizmann Institute of Science, Israel) Understanding molecular solids using density functional theory - and vice versa
10:20	11:00	Dominika Zgid (University of Michigan, USA) Green's function embedding methods
11:00	11:30	Coffee break
11:30	12:10	Eric Neuscamman (University of California, Berkeley, USA) Targeting excited states in molecules and solids
12:10	12:50	Sandro Sorella (International School for Advanced Studies, Italy) Accelerated molecular dynamics by quantum Monte Carlo
12:50	14:20	Lunch
Chair: Eric Neuscamman		
14:20	15:00	Alexander Thom (University of Cambridge, UK) Expeditions in Coupled Cluster Theory
15:00	15:40	Igor Schapiro (Hebrew University of Jerusalem, Israel) Mechanistic Origin of the Vibrational Coherence in the Photoreaction of Biomimetic Molecular Switches
15:40	16:10	Coffee break
16:10	16:50	George Booth (King's College London, UK) Novel stochastic techniques in machine learned wavefunctions for strongly correlated materials
16:50	17:30	Toru Shiozaki (Northwestern University, USA) Chemical tensor networks
17:40		Bus to the hotels

Talks are limited to 30 minutes followed by 10 minutes discussion.

Tuesday, December 19, 2017		
Start	**End**	
8:30	9:00	Gathering
Chair: Dominika Zgid		
9:00	9:40	Steven G. Louie (University of California, Berkeley, USA) Many-electron interactions and ab initio methods for the photophysics of reduced-dimensional materials: Beyond GW-BSE
9:40	10:20	Vojtěch Vlček (University of California, Los Angeles, USA) Stochastic GW calculations from molecules to bulk
10:20	11:00	Giulia Galli (University of Chicago, USA) Large scale GW and BSE calculations in finite field
11:00	11:30	Coffee break
11:30	12:10	Seiichiro Ten-no (Kobe University, Japan) Improving upon stochastic configuration interactions from many-body perspectives
12:10	12:50	Johannes M. Dieterich (Princeton University, USA) Fast and Accurate Methods: From Local Configuration Interaction to Orbital-Free Density Functional Theory
12:50	14:20	Lunch
Chair: Leeor Kronik		
14:20	15:00	Guy Cohen (Tel Aviv University, Israel) Electronic structure with inchworm Monte Carlo
15:00	15:40	Emanuel Gull (University of Michigan, USA) Simulated nuclear magnetic resonance results in the superconducting regime of the two-dimensional Hubbard model and their relationship to the cuprate high-temperature superconductors
15:40	16:10	Coffee break
16:10	16:50	Michael Thoss (University of Erlangen-Nuremberg, Germany) Nonequilibrium quantum dynamics using multiconfiguration wavefunction and reduced density matrix methods
16:50	17:30	Oded Hod (Tel Aviv University, Israel) The Driven Liouville von Neumann (DLvN) Approach for Time-Dependent Electronic Transport Calculations: Towards a TDDFT Implementation
17:40		Bus to hotels

Talks are limited to 30 minutes followed by 10 minutes discussion.

Wednesday, December 20, 2017		
Start	**End**	
8:30	9:00	Gathering
Chair: Toru Shiozaki		
9:00	9:40	Andreas Goerling (University of Erlangen-Nuremberg, Germany) A truly universal Kohn-Sham method treating strong correlation as accurate as dispersion interactions
9:40	10:20	Robert A. DiStasio (Cornell University, USA) Enabling Large-Scale Hybrid Density Functional Theory Based Ab Initio Molecular Dynamics in the Condensed Phase
10:20	11:00	Ronnie Kosloff (Hebrew University of Jerusalem, Israel) TBA
11:00	12:00	Brunch
12:00		Excursion
19:00	21:00	Conference dinner

Talks are limited to 30 minutes followed by 10 minutes discussion.