Friday, May 13	
MORNING SESSION	**Chair:** Victor Batista
8:30 – 9:20	**Registration** and **Breakfast – Sloane Physics Lab**
9:20 - 9:30	*Welcoming Remarks*
9:30 - 10:10	**Yvon Maday** (University of Paris VI) A Posteriori Quantification of Model/discretization/solution Method Errors for Electronic Structure Calculations
10:15 - 10:55	**Michael Herman** (Tulane University) An Approximate Semiclassical Method that Uses Real Valued Trajectories for Time Dependent Tunneling Calculations
11:00 - 11:30	***COFFEE BREAK***
11:30 - 12:10	**Aihui Zhou** (Chinese Academy of Sciences) A Parallel Orbital-updating Approach for Electronic Structure Calculations
12:15 - 2:00	***LUNCH*** at **Charlie's Place** located in the ***Yale School of Management, 165 Whitney Ave***. (short walk)
AFTERNOON SESSION	**Chair:** Shi Jin
2:00 - 2:40	**Chao Yang** (Lawrence Berkeley National Laboratory) Fast Algorithm for Estimating Absorption Spectrum in Linear Response TDDFT
2:45 – 3:25	**Joseph Subotnik** (University of Pennsylvania) A Mixed Quantum-Classical View of Surface Hopping
3:30 - 4:00	***COFFEE BREAK***
4:00 - 4:40	**Yosuke Kanai** (University of North Carolina, Chapel Hill) Numerical implementation and application of real-time TDDFT in large-scale simulations
4:45 – 5:25	**Xiantao Li** (Pennsylvania State University) Atom relaxations in the electron-structure calculation

Saturday, May 14	
MORNING SESSION	**Chair:** Jianfeng Lu
8:30 – 9:20	***Breakfast***
9:30 - 10:10	**Shi Jin** (University of Wisconsin at Madison) Semiclassical computational methods for quantum dynamics with band-crossing
10:15 - 10:55	**Oleg Prezhdo** (University of Southern California) Nonadiabatic Molecular Dynamics with Time-Domain Density Functional Theory
11:00 - 11:30	***COFFEE BREAK***
11:30 - 12:10	**Victor Batista** (Yale University) Time Sliced Thawed Gaussian Propagation for Quantum Dynamics Simulations
12:15 - 2:00	***LUNCH*** on the ***third floor lounge of Sloane Physics Lab***
AFTERNOON SESSION	**Chair:** Weitao Yang
2:00 - 2:40	**Lin Lin** (University of California Berkeley) Adaptively compressed exchange operator
2:45 – 3:25	**Jianfeng Lu** (Duke University) Towards a mathematical understanding of surface hopping algorithms
3:30 – 4:00	***COFFEE BREAK***
4:00 – 5:25	Free time for discussion
6:00 – 9:00	***Banquet*** at **Quinnipiac Club**, 221 Church Street, New Haven, CT Banquet Talk by **John Tully** (Yale University) Adventures with Surface Hopping

Sunday, May 15	
MORNING SESSION	**Chair:** Jianfeng Lu
8:30 – 9:30	***Breakfast***
9:30 - 10:10	**Weitao Yang** (Duke University) Electron Correlation and Excitations from Pairing Matrix Fluctuation and Particle-Particle Random Phase Approximation
10:15 - 10:55	**Eric Cances** (Ecole des Ponts and INRIA) A mathematical formulation of the GW method
11:00 - 11:30	***COFFEE BREAK***
11:30 - 12:10	**Nancy Makri** (University of Illinois Urbana Champaign) Classical vs. Quantum Decoherence and the Quantum-Classical Path Integral
12:15 - 2:00	***LUNCH*** on the ***third floor lounge of Sloane Physics Lab***
AFTERNOON SESSION	**Chair:** Shi Jin
2:00 - 2:40	**Qian Niu** (University of Texas at Austin) Semiclassical electron dynamics in crystals
2:45 – 3:25	**Jian Liu** (Peking University) A novel quantum dynamics method for thermal correlation functions
3:30 - 4:00	***COFFEE BREAK***
4:00 - 4:40	**Alexey Akimov** (SUNY Buffalo) TBA
4:45 – 5:25	**Zhennan Zhou** (Duke University) Bloch dynamics with second order Berry phase correction

Monday, May 16	
MORNING SESSION	**Chair**: Victor Batista
8:30 – 9:00	***Breakfast***
9:00 - 9:40	**Qiang Cui** (University of Wisconsin at Madison) Hybrid QM/MM methods for biophysics and solid/liquid interfaces
9:45 - 10:30	**George Hagedorn** (Virginia Tech) A Numerical Algorithm for Semiclassical Dynamics in Several Space Dimensions
10:30 - 11:00	***COFFEE BREAK***
11:00 - 11:40	**Dionisios Margetis** (University of Maryland College Park) Aspects of many-Boson dynamics
11:45 - 12:30	**Sihong Shao** (Peking University) A Computable Branching Random Walk for the Wigner Quantum Dynamics
	CLOSING