

Tuesday, June 19	Mathematical and Numerical Aspects of Quantum Dynamics
9:00 – 9:25	BREAKFAST (hosted by CSCAMM)
MORNING SESSION	Chair: Eitan Tadmor (University of Maryland)
9:30 – 9:40	Eitan Tadmor and Pierre-Emmanuel Jabin (University of Maryland) Welcoming Remarks
9:40 – 10:30	Gero Friesecke , (Technische Universität München) New optimal control problems for quantum systems
10:30 – 11:30	COFFEE BREAK
11:30 – 12:10	Yvon Maday , (University of Paris VI) How to make continuum solvation incredibly fast in a few simple steps
12:15 – 2:00	LUNCH (hosted by CSCAMM) and Poster Session
AFTERNOON SESSION	Chair: Jianfeng Lu (Duke University)
2:00 – 2:40	Israel Michael Sigal , (University of Toronto) On effective equations of quantum physics
2:45 – 3:15	COFFEE BREAK
3:15 – 3:55	Thomas Markland , (Stanford University) Accurate nonadiabatic quantum dynamics on the cheap using master equations
4:00 – 4:40	Joseph Subotnik , (University of Pennsylvania) Understanding nonadiabatic interactions at a metal surface: Surface Hopping and Electronic Friction

Wednesday, June 20	Mathematical and Numerical Aspects of Quantum Dynamics
9:00 – 9:30	<i>BREAKFAST (hosted by CSCAMM)</i>
MORNING SESSION	<i>Chair: Dave Levermore</i> (University of Maryland)
9:30 – 10:10	Victor Batista , (Yale University) Tensor-Train Split-Operator Fourier Transform (TT-SOFT) method: multidimensional nonadiabatic quantum dynamics
10:15 – 10:55	Thomas Barthel , (Duke University) Evolution of quantum many-body systems using tensor network states
11:00 – 11:30	<i>COFFEE BREAK</i>
11:30 – 12:10	Lexing Ying , (Stanford University) Interpolative decomposition and its applications in Quantum Chemistry
12:15 – 2:00	<i>LUNCH</i>
AFTERNOON SESSION	<i>Chair: Victor Batista</i> , (Yale University)
2:00 – 2:40	Giovanni Ciccotti , (Sapienza University of Rome) Nuclear quantum effects in electronic (non)adiabatic dynamics
2:45 – 3:15	<i>COFFEE BREAK</i>
3:15 – 3:55	Thomas Chen , (University of Texas at Austin) Dynamics of a heavy quantum tracer particle in a Bose gas
4:00 – 4:40	Thomas Miller , (California Institute of Technology) New methods for the quantum simulation of biological and inorganic catalysts
EVENING ACTIVITIES	
7:00	<i>DINNER AT KAPNOS TAVERNA</i>

Thursday, June 21	Mathematical and Numerical Aspects of Quantum Dynamics
9:00 – 9:30	<i>BREAKFAST (hosted by CSCAMM)</i>
MORNING SESSION	<i>Chair: Pierre-Emmanuel Jabin</i> (University of Maryland)
9:30 – 10:10	Christof Sparber , (University of Illinois at Chicago) <i>Averaging of Nonlinear Schrödinger Equations with strong confinement and rotation</i>
10:15 – 10:55	Mohammed Lemou , (CNRS and University of Rennes 1, France) <i>A micro-macro numerical method solving a multi-scale model for graphene</i>
11:00 – 11:30	COFFEE
11:30	<i>END OF CONFERENCE</i>