### Wednesday July 5

8.00am—8.40am Breakfast

8.40—8.45am: Opening Remarks

8.45—9.15am: Carsten Ullrich, University of Missouri  
*TDDFT for excitons in solids*

9.15am – 9.45am: Stefan Kurth, Ikerbasque UPV/EHU  
*Mott Metal-Insulator Transition from Steady-State Density Functional Theory*

9.45 – 10.15am: Stefano Pittalis, National Research Council, Modena, Italy  
*Progress in ensemble density functional theory for excited states*

10.15 – 10.45am: TDDFTea and Coffee

10.45 – 11.15am: Alberto Castro, University of Zaragoza, Spain  
*Floquet engineering quantum systems with optimal control theory*

11.15 – 11.45pm: Hardy Gross, Hebrew University of Jerusalem  
*Ultra-fast processes and the challenge of decoherence and thermalization*

11.45—2:00pm: Lunch

2.00 – 2.30pm: Kalman Varga, Vanderbilt University  
*TDDFT approach to describe the interaction of matter and light*

2.30 – 3.00pm: Andrew Baczewski, Sandia National Lab  
*Improving high-energy-density diagnostics with real-time TDDFT*

3.00 – 3.30pm: Yasuoke Kanai, University of North Carolina  
*Periodic RT-NEO-TDDFT for Coupled Quantum Dynamics of Electrons and Protons in Heterogeneous System*

3.30 – 4.00pm: TDDFTea and Coffee

4.00 – 4.30pm: Andre Schleife, University of Illinois,  
*Electron relaxation and hot-electron-mediated diffusion within real-time TDDFT*

4.30 – 5.00pm: Christine Aikens, Kansas State University  
*TDDFT+TB Gradients and RT-TDDFT Studies of Electron Dynamics*

### Thursday July 6

8.00am—8.40am Breakfast

8.45 – 9.15am: Adam Wasserman, Purdue University  
*Stretching Bonds Without Breaking Symmetries*

9.15 – 9.45am: Raphael Ribeiro, Emory University  
*Spectral statistics and localization of excited-states in optical resonators*

9.45 – 10.15am: Shane Parker, Case Western University  
*TDDFT-ris: A minimal auxiliary basis method for low-cost spectra and accelerating ab initio calculations*

10.15 – 10.45am: TDDFTea and Coffee

10.45 – 11.15am: Zhenfei Liu, Wayne State University  
*Towards accurate electronic structure calculations of heterogeneous interfaces*

11.15 – 11.45pm: Kieron Burke, University of California Irvine  
*Which is better, TDDFT or ensemble DFT? Or are they both Gross?*

11.45—2pm: Lunch

2.00 – 2.30pm: Christine Isborn, University of California Merced  
*Using machine learning to establish the importance of high-level electronic structure*

2.30 – 3.00pm: Daniel Nascimento, University of Memphis  
*Exploring perturbative approaches for the simulation of core-level spectra within time-dependent density functional theory*

3.00 – 3.30pm: Tim Zuehlsdorff, Oregon State University  
*Modeling nonadiabatic effects in linear optical spectra of complex systems using TDDFT*

3.30 – 4.00pm: TDDFTea and Coffee

4.00 – 4.30pm: Vojtech Vlcek, University of California Santa Barbara  
*Quasiparticle dynamics in and out-of equilibrium*

4.30 – 5.00pm: Xavier Andrade, Lawrence Livermore National Lab  
*The INQ Code, a State of the Art Implementation of TDDFT*

7 - 9:30pm, Workshop Dinner, RBG Great Hall, 15 Washington St.
**Friday July 7**

8.00am—8.40am Breakfast

8.45—9.15am: Adrienn Ruzsinszky, Temple University
*Linear response in space and time, with application to symmetry breaking*

9.15am – 9.45am: Jefferson Bates, Appalachian State, *Irreducible Polarization in the Hubbard Dimer: Exploring a Many-Body Concept with TDDFT*

9.45 – 10.15am: Jianwei Sun, Tulane University, *DFT error origins in open-shell d- and f-electron compounds revealed from SCAN’s performance: self-interaction error, strong correlation, or both?*

10.15 – 10.45am: TDDFTea and Coffee

10.45 – 11.15am: Stephan Kümmel, University of Bayreuth
*The Kohn-Sham current density - not real, but useful*

11.15 – 11.45pm: John Perdew, Temple University
*Symmetry Breaking: DFT and TDDFT Perspectives*

11.45—2pm: Lunch

2.00 – 2.30pm: Basile Curchod, University of Bristol, *Driving new developments in excited-state molecular dynamics through challenging photochemical applications*

2.30 – 3.00pm: Angel Rubio, MPI Hamburg, *Quantum electrodynamics density functional theory (QEDFT): quantum light materials engineering*

3.00 – 3.30pm: Attila Cangi, CASUS Germany, *Electronic properties of matter under extreme conditions using time-dependent density functional theory*

3.30 – 4.00pm: TDDFTea and Coffee

4.00 – 4.30pm: Lucia Reining, Polytechnique, France
*Perturbation theory: in what should we expand, and how?*

4.30 – 5.00pm: Roi Baer, Hebrew University of Jerusalem
*Stochastic vector methods in electronic structure*

5.30 – 7.00pm: *Poster Session*

**Saturday July 8**

8.00am—8.40am Breakfast


9.15am – 9.45am: Shaama Sharada, University of Southern California
*Catalyst discovery for metal-free photoredox CO2 reduction*

9.45 – 10.00am: Student talk – Thomas Trepl, University of Bayreuth, *Real-Time Ehrenfest TDDFT as a Tool to Understand Light-Harvesting*

10.00 – 10.15am: Student talk – Etienne Palos, U. California, San Diego, *Postmodern DFT and Many-Body Interactions in Aqueous Phase Chemistry*

10.15 – 10.45am: TDDFTea and Coffee

10:45 – 11.15am: Michele Pavanello, Rutgers University
*Time-Dependent Orbital-Free DFT Unleashed*

11.15—1:30pm: Lunch

1.30 – 2.00pm: Eunji Sim, Yonsei University, Korea
*Density-corrected DFT applied to large systems*

2.00 – 2.30pm: Stefan Vuckovic, Saarland University, *Near CCSD(T) Accuracy for Non-Covalent Interactions at Near DFT Cost*

2.30 – 3.00pm: Filipp Furche, University of California Irvine
*Symmetries in Self-Consistent Field Response Theory*

3.00 – 3.30pm: TDDFTea and Coffee

4.00 – 4.30pm: Aurora Pribram-Jones, University of California Merced
*Examining time dependence in ensembles*

4.30 – 5.00pm: Neepa Maitra, Rutgers Newark
*HJK Couplings in TDDFT*