

## Workshop on "Dynamics of Matter: Advances in Theory"

CFEL, Bldg. 99, Seminar rooms I, II, III

Thursday, April 25<sup>th</sup> 2013

- 09:15 - 09:30 Welcome - Andrea Cavalleri
- 09:30 - 10:00 **Anatoli Polkovnikov**, Boston University  
*Recent advances and future prospects in non-equilibrium quantum dynamics*
- 10:00 - 10:15 Discussion
- 10:15 - 10:45 **Tamar Seidemann**, Northwestern University  
*New Directions in Strong Field Coherent Control. From Spinning Tops to Ultrafast Switches*
- 10:45 - 11:00 Discussion
- 11:00 - 11:30 Coffee
- 11:30 - 12:00 **Maurits W. Haverkort**, University of British Columbia  
*Theory of novel spectroscopic techniques: Probing spin, charge and orbital physics*
- 12:00 - 12:15 Discussion
- 12:15 - 12:45 **Angel Rubio**, Universidad del País Vasco UPV/EHU  
*Non equilibrium dynamical processes in finite and extended systems: a TDDFT and Many-body perspective*
- 12:45 - 13:00 Discussion
- 13:00 - 14:30 Lunch
- 14:30 - 15:00 **Corinna Kollath**, University of Geneva  
*Externally driven strongly correlated quantum gases*
- 15:00 - 15:15 Discussion
- 15:15 - 15:45 **Burkhard Militzer**, University of California, Berkely  
*First-Principles Computer Simulation of Materials in the Interiors of Giant Planets*
- 15:45 - 16:00 Discussion
- 16:00 - 16:30 Coffee
- 16:30 - 17:00 **Giulia Galli**, University of California, Davis  
*It's all about energy! The impact of theory and computation*
- 17:00 - 17:15 Discussion
- 17:15 - 17:30 Conclusion - Andrea Cavalleri
- 19:30 Dinner