

## Monday

09:00 Opening

Transient electronic states and dynamics in solids and nanostructures

*Chair: N. Došlić*

- 09:30 Andrea Marini Many body approach to XUV ultrafast spectroscopy
- 10:10 Claudio Verdozzi Time-resolved adsorbate-surface and donor-acceptor dynamics: scope and challenges for nonequilibrium Green's function methods
- 10:50 Fukiko Ota Theoretical calculation of molecular frame X-ray photoelectron angular distributions for observation of chemical reaction by X-ray Free Electron Laser

11:20 Opening Poster Session

**11:30 Coffee Break**

*Chair: P. Decleva*

- 11:50 Christian Bressler Time-resolved x-ray spectroscopies at XFEL sources
- 12:30 Davide Bleiner Short-wavelength photon-in/photon-out with a "Home Lab" plasma source
- Lunch

*Chair: A. Marini*

- 15:30 Tullio Scopigno Snapshots of ultrafast processes in

biomolecules and condensed matter:

Molecular movies on a table top FEL

16:10 Enrico Perfetto  
Nonequilibrium Green's function approach  
to the ultrafast electron dynamics in finite  
systems from first-principles

**16:50 Coffee Break**

17:10 Daniel Payne  
On the influence of defects on the ground  
and excited states of TiO<sub>2</sub>

## Tuesday

### Coherent short living excitations

*Chair: M. Coreno*

- 9:30 Jan Minar Understanding of dynamics of excited states by means of one-step model of ARPES
- 10:10 Nina Ignatova Infrared-X-ray pump-probe scheme for an advanced study of nuclear wave packet dynamic in H<sub>2</sub>O and HDO
- 10:40 Jesper Norell Ultrafast independent N-C and N-H bond deformation studied with RIXS
- 11:10 Valeria Lanzilotto Angle Resolved Time of Flight Photo-electron Spectroscopy@ PM4 beamline of Bessy II

### **11:40 Coffee Break**

*Chair: C. Verdozzi*

- 11:50 Peter Eliot Laser-induced ultrafast spin dynamics with TDDFT
- 12:30 Marco Battiato Ultrafast and gigantic spin-injection into semiconductors.

### Lunch

*Chair: C. Bressler*

- 15:30 Umberto De Gio- Ab-initio time and spin-resolved ARPES

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|--------------|---------------------|--|
|              | vannini             | in real materials with TDDFT: monitoring the interplay between excited states dynamics and photon dressing photoemission |
| 16:10        | Philippe Wernet     | Orbital specific mapping of chemical dynamics with ultrafast X-rays  |
| <b>16:50</b> | <b>Coffee Break</b> |  |
| 17:10        | Flavio Capotondi    | Fast-demagnetization and four wave mixing processes witnessed using FERMI seeded-FEL                                     |

## Wednesday

### Ultrafast heating of matter and liquids

*Chair: A. Di Cicco*

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|-------|---------------------|--|
| 9:00  | Andrea Sterzi       | Time-resolved ARPES on topologically nontrivial materials            |
| 9:30  | Yohei Uemura        | Femtoseconds transient XAFS  |
| 10:10 | Martina Dell'Angela | Femtosecond soft X-Ray spectroscopy for catalysis and femtochemistry |
| 10:50 | Martin Beye         | Towards coherent spectroscopy in the soft X-ray range                |

### **11:30 Coffee Break**

*Chair: S. Techert*

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|-------|------------------|--|
| 11:50 | Francesca Curbis | Accelerator based light sources for ultra-fast science |
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- Quick Lunch  
Excursion to Selinunte

## Thursday

### Femtochemistry

*Chair: R. Gunnella*

- 9:30        Sonia Coriani        Exploring local and ultrafast spectroscopic effects by ab initio methods
- 10:10        Piero Decleva        First steps in ultrafast molecular time resolved studies
- 10:30        Nađa Došlić        Ultrafast electronic excitation in molecules

### **11:30        Coffee Break**

*Chair: M. Verstraete*

- 11:50        Michael Odelius        Excited state dynamics in core-/valence – excited states in hydrogen bonding environment studied with multi-configurational quantum chemistry

Lunch

*Chair: Y. Uemura*

- 15:30        Simone Techert        FEL imaging of chemical reactions at the ultrafast time regime
- 16:10        Rebecca Boll        Imaging molecular dynamics with intense femtosecond X-ray FEL pulses
- 16:50        Coffee Break**
- 17:10        Sergey Bokarev        Ultrafast spin-flip dynamics in transition metal complexes triggered by soft X-ray light

## Friday

### Different perspectives from a time resolved spectroscopy

*Chair: J. Minar*

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|-------|---------------------|---|
| 9:30  | Matthieu Verstraete | Long-range dispersion forces between molecules subject to attosecond pulses from ab initio calculations |
| 10:10 | Barbara Brena       | Theoretical spectroscopy of molecular organic semiconductors, with a time resolved perspective          |
| 10:30 | Gerrit van Der Laan | Time-resolved x-ray detected ferromagnetic resonance.   |

### **11:30 Coffee Break**

*Chair: D. Sebilliau*

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|-------|-----------------|---|
| 11:50 | Keisuke Hatada  | Modeling non-equilibrium dynamics and saturable absorption induced by Free Electron Laser radiation |
| 12:30 | Andrea Di Cicco | Warm dense matter by XAS  |
| 13:10 | Closing         |   |