

Science@FELs 2024

17-21 June 2024 | Paris, France

Science at FELs conference Provisionnal program

Monday, June 17th, 2024 – SOLEIL Synchrotron

09:00 - 09:50 *Registration and welcome coffee*

09:50 - 10:00 **WELCOME**

10:00 - 10:50 X-ray probes of coherence: tools for understanding coupling and phase transitions in materials
Steve Johnson

10:50 - 11:10 *Coffee Break*

11:10 - 11:40 **Invited - Justine Schlappa**
Materials

11:40 - 12:00 **Contributed**

12:00 - 12:30 Probing complex material properties by THz harmonic generation
Jan-Christophe Deinert

12:30 - 13:40 *Lunch at SOLEIL*

13:40 - 14:10 Controlling phase transitions with correlated disorder
Simon Wall

14:00 - 14:30 *Walking distance / Bus transfer for visits outside SOLEIL*

Laboratory Visits
14:10 - 16:00 **Walking distance** – SOLEIL, ATTOLAB, APPOLON
Bus transfer – LOA, CLIO

16:00 - 16:30 *Walking distance / Bus transfer to SOLEIL*

16:30 - 17:00 *Coffee Break*

17:00 - 19:30 **Posters, appetizers and exhibitors**

19:30 - 20:30 *Optional bus transfer to Paris*

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Tuesday, June 18th, 2024 – Sorbonne Université

- 09:00 - 09:50 **Plenary - Jos Oomens**
Chemistry
- 09:50 - 10:20 **Invited - Cristian Svetina**
Nonlinear
- 10:20 - 10:40 **Contributed**
- 10:40 - 11:10 *Coffee Break*
- 11:10 - 11:40 **Invited - Jean Yves Salpin**
Chemistry
- 11:40 - 12:00 **Contributed**
- 12:00 - 12:30 Ultrafast structural changes direct the first molecular events of vision
Valérie Panneels
- 12:30 - 13:40 *Lunch at Sorbonne Université*
- 13:40 - 14:10 Electronic molecular movies with FELs: The ultrafast dynamics of 2-thiouracil
Fabiano Lever
- 14:10 - 14:40 **Invited - Michael Meyer**
Fundamental
- 14:40 - 15:00 **Contributed**
- 15:00 - 15:30 **Invited - Kirsten Schnorr**
Fundamental
- 15:30 - 16:00 *Coffee Break*
- 16:00 - 16:30 **Invited - Ulrike Fruehling**
Fundamental
- 16:30 - 16:50 **Contributed**
- 16:50 - 17:20 Two-color stimulated Raman transitions in atomic systems from the XUV to the soft x-ray regime
Ulrich Eichmann
- 17:20 - 17:40 **Contributed**
- 17:40 - 18:00 **Contributed**
- 19:00 *Conference Dinner – Paris*

Wednesday, June 19th, 2024 – Sorbonne Université

09:00 - 09:50	Plenary - Jacques-Philippe Colletier Biology
09:50 - 10:20	Control and analysis of coherence in ultrafast x-ray crystallography Jasper van Thor
10:20 - 10:40	Contributed
10:40 - 11:10	<i>Coffee Break</i>
11:10 - 11:40	Single particle imaging of sea spray aerosols Minna Patanen
11:40 - 12:00	Contributed
12:00 - 12:30	Dynamics of Magnetization Symmetries probed by Magnetic Helicoidal Dichroism Thierry Ruchon
12:30 - 13:40	<i>Lunch at Sorbonne Université</i>
13:40 - 14:10	XFELs to unravel Ultrafast Magnetic Dynamics Emmanuelle Jal
14:10 - 14:40	Extreme Domain Wall Speeds under Ultrafast Optical Excitation Thomas Silva
14:40 - 15:00	Contributed
15:00 - 15:30	Invited - Carl Davies Magnetism
15:30 - 16:00	<i>Coffee Break</i>
16:00 - 16:30	Invited - Dominik Kraus HED
16:30 - 16:50	Contributed
16:50 - 17:20	Invited - June Wicks HED
17:20 - 17:40	Contributed
17:40 - 18:00	Contributed
18:20	End of conference

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SATELLITE WORKSHOP **Forum on Advanced FEL Techniques** **Provisionnal program**

Thursday, June 20th, 2024 – Sorbonne Université

- 09:00 - 10:45 **Workshop – 1**
High repetition rate FELs -I
- 10:45 - 11:15 *Coffee Break*
- 11:15 - 12:30 **Workshop – 2**
High repetition rate FELs -II
- 12:30 - 14:00 *Lunch at Sorbonne Université*
- 14:00 - 15:30 **Workshop – 3**
Combining multi-colour pulses in FELs
- 15:30 - 16:00 *Coffee Break*
- 16:00 - 17:30 **Workshop – 4**
Tailoring pulses I
- 19:00 - 22:00 *Workshop dinner – Paris*

Friday, June 21th, 2024 – Sorbonne Université

- 09:00 - 10:45 **Workshop - 5**
Tailoring pulses II
- 10:45 - 11:15 *Coffee Break*
- 11:15 - 12:30 **Workshop – 6**
Compact sources, and an outlook to the future
- 12:30 *End of satellite*