

Ultrafast X-ray Summer School 2013

Tuesday 11th to Friday 14th of June, DESY Hamburg, Bldg. 99 (CFEL)

Last update: June 9

Time	Activity	Speaker	Topic
Tuesday 11th			
08:00 – 09:00	Registration		
09:00 – 09:10	Welcome 1	Organizers	
09:10 – 09:20	Welcome 2	Edgar Weckert, DESY Photon Science Director	
09:20 – 09:30	Welcome 3	Massimo Altarelli, XFEL Director	
09:30 – 11:00	Lecture 1	Robin Santra	Fundamentals of x-ray—matter interaction
11:00 – 11:30	Coffee break		
11:30 – 13:00	Lecture 2	Nora Berrah	Interactions of molecules with x-ray FEL pulses
13:00 – 14:00	Lunch – on your own		
14:00 – 15:30	Lecture 3	Margaret Murnane	X-ray HHG sources: technology and applications
15:30 – 16:00	Coffee break		
16:00 – 17:00	XFEL instruments presentation (details on next page)		
17:00 – 18:00	Mock proposal group work		
18:00	Welcome Reception		
Wednesday 12th			
09:30 – 12:30	Facilities visit (FLASH / PETRA III / XFEL)		
13:00 – 14:00	Lunch – on your own		
14:00 – 15:30	Lecture 4	Thomas White	Protein nanocrystallography
16:00 – 19:00	Excursion		
19:00	School dinner		
Thursday 13th			
09:00 – 10:30	Lecture 5	Todd Martinez	Molecular dynamics in chemistry and biology
10:30 – 11:00	Coffee break		
11:00 – 12:30	Lecture 6	Kelly Gaffney	Time-resolved x-ray applications in chemistry
12:30 – 14:00	Lunch – on your own		
14:00 – 15:30	Lecture 7	Eric Collet	Time-resolved crystallography
15:30 – 16:00	Coffee break		
16:00 – 18:00	Mock proposal group work		
Friday 14th			
09:00 – 10:30	Lecture 8	Giorgio Margaritondo	X-ray FEL sources
10:30 – 11:00	Coffee break		
11:00 – 12:30	Lecture 9	Mariano Trigo	Inelastic x-ray scattering in condensed matter systems
12:30 – 14:00	Lunch – on your own		
14:00 – 15:30	Mock proposal group work		
15:30 – 16:00	Coffee break		
16:00 – 17:00	Mock proposal poster presentations		
17:00	CFEL BBQ		

WiFi: WLAN-Name (SSID):

uxss2013

WPA/WPA2-PSK Passphrase:

uxssATcfel (capital 'AT')

(Available on all access points within DESY except FLASH, PETRA and XFEL premises.)

XFEL instruments presentations

Tuesday 11th

Time	XFEL instrument	Speaker
16:00 – 16:10	Femtosecond X-ray Experiments (FXE)	Christian Bressler
16:10 – 16:20	Single Particles, clusters, and Biomolecules (SPB)	Adrian Mancuso
16:20 – 16:30	Small Quantum Systems (SQS)	Michael Meyer
16:30 – 16:40	Materials Imaging and Dynamics (MID)	Anders Madsen
16:40 – 16:50	Spectroscopy & Coherent Scattering (SCS)	Andreas Scherz
16:50 – 17:00	High-Energy Density Physics (HED)	Motoaki Nakatsutsumi

- After the instruments presentations the participants will split in six groups, one group per XFEL instrument.

- These groups will work together towards the preparation of a *mock beam-time proposal* for the corresponding instrument under the guidance of an XFEL scientist of the corresponding instrument team.

- Each group please find a team-working place in the open areas of the CFEL building. There are three such working areas in the first, second and third floors of the building.

- Group work will be guided by:

FXE:	Christian Bressler, Andreas Galler, Wojciech Gawelda
SPB:	Adrian Mancuso, Andrew Aquila, Klaus Giewekemeyer
SQS:	Michael Meyer, Tommaso Mazza, Markus Ilchen
MID:	Anders Madsen, tbd
SCS:	Andreas Scherz, Oleg Krupin
HED:	Motoaki Nakatsutsumi

XFEL mock-proposal group work

Day	Time	Activity
Tuesday 11 th	17:00 – 18:00	Group build up and initial discussions on possible proposals
Thursday 13 th	14:00 – 15:30	Group work on the proposal
	16:00 – 18:00	
Friday 14 th	14:00 – 15:30	Group work on the proposal. Get your posters ready!
Friday 14 th	16:00 – 17:00	Poster presentations