

MONDAY, MARCH 21

09:00 – 10:00 Registration

10:00 – 11:00 **Introduction to the meeting. Room: FD5**
Anders Nilsson (Workshop logistics)
Anders Karlhede (Deputy Vice-Chancellor for Science, Stockholm University)
Mats Larsson (Director of the Stockholm-Uppsala Center for Free Electron Laser Research)
Jesper Andersen (Science Director at MAX IV Laboratory)
Sverker Werin (Possible outlines of SXL at MAX IV)

Plenary session. Room: FD5

Chair: Anders Nilsson

11:00 – 11:30 FEL Research and Development at the LCLS, *Zhirong Huang*
 11:30 – 12:00 Control of soft X-ray pulses at the seeded Free Electron Laser FERMI, *Enrico Allaria*
 12:00 – 12:15 Ultrafast Laser Science at the Lund Laser Centre, *Per Johnsson*
 12:15 – 12:30 Opportunities for THz pump / x-ray probe investigations at SXL, *Stefano Bonetti*

12:30 – 13:30 **LUNCH**

	Room: FB42 <i>Chair: Michael Odelius</i>	Room: FD5 <i>Chair: Oscar Tjernberg</i>	Room: FB41 <i>Chair: Jan-Erik Rubensson</i>
13:30 – 14:00	Probing photochemistry of isolated molecules by short x-ray pulses, <i>Marcus Gühr</i>	Probing the dynamics of electronic orderings using time-resolved resonant x-ray scattering, <i>Yi-De Chuang</i>	Multi-Wave Mixing at FERMI, <i>Claudio Masciovecchio</i>
14:00 – 14:30	Probing ultrafast surface chemistry and catalysis with optical and soft x-ray lasers, <i>Henrik Öström</i>	Quenching of the Resonant Magnetic Scattering by Ultra-Short Free-Electron Laser Light Pulses, <i>Magnus Berntsen</i>	Stimulated x-ray Raman scattering in molecules, <i>Victor Kimberg</i>
14:30 – 15:00	Opportunity to probe oxidation-reduction (redox) reactions at Interfaces using SXL, <i>Hiroito Ogasawara</i>	Experiments for stimulated soft X-ray emission from solids, <i>Martin Beye</i>	Towards controlled manipulation of inner-shell electrons, <i>Linda Young</i>

15:00 – 15:30 **COFFEE BREAK**

	Room: FB42 <i>Chair: Michael Odelius</i>	Room: FD5 <i>Chair: Oscar Tjernberg</i>	Room: FB41 <i>Chair: Per Johnsson</i>
15:30 – 16:00	Localization of electrons with xrays: prospects and challenges, <i>Dennis Nordlund</i>	Controlling Resonant Soft X-Ray Processes through Stimulation, <i>Joachim Stöhr</i>	Towards a complete picture of few X-ray photons driven ionization, <i>Raimund Feifel</i>
16:00 – 16:30	Femtosecond X-ray Spectroscopy for photovoltaics, <i>Martina Dell'Angela</i>	Resonant Magnetic Scattering, <i>Gerhard Grübel</i>	Resonant and non-resonant multi-photon processes in atoms, <i>Michael Meyer</i>
16:30 – 17:00	BREAKOUT SESSIONS (See details below)		Challenges and opportunities for atomic, molecular, cluster science at the Low Density Matter beamline at FERMI, <i>Carlo Callegari</i>

17:00 – 18:00 **BREAKOUT SESSIONS** (AMO: FB41, Chemistry: FB42, Condensed Matter: FA32, FEL Science: A3:1003, Life Sciences: FD41, Novel Spectroscopy: FA31)

18:00 – 20:00 **RECEPTION**

TUESDAY, MARCH 22

	Room: FB42 <i>Chair: Henrik Öström</i>	Room: FB52 <i>Chair: Stefano Bonetti</i>	Room: FB55 <i>Chair: Tomas Lundqvist</i>
09:00 – 09:30	Electronic and Structural Dynamics in Metal Complexes enlightened by XFEL Experiments, <i>Martin Meedom Nielsen</i>	Femtosecond dynamics of antiferromagnetic spin order in an induced multiferroic, <i>Steve Johnson</i>	Coherent diffractive imaging of giant amoeba viruses, <i>Jonas Sellberg</i>
09:30 – 10:00	Chemical dynamics: From single site to multi centre dynamics, <i>Alexander Föhlisch</i>	Towards controlling spins in space and time, <i>Hermann Dürr</i>	Single particle imaging: the past and the future, <i>Filipe Maia</i>
10:00 – 10:30	Dynamics of electrons at work in solar energy conversion, <i>Villy Sundström</i>	Seeing Spins Move, <i>Stefan Eisebitt</i>	1D crystallography: XFEL imaging of biological assemblies with helical symmetry, <i>Gisela Brändén</i>

10:30 – 11:00 **COFFE BREAK**

11:00 – 13:00 **BREAKOUT SESSIONS**
 AMO: FB41
 Chemistry: FB42
 Condensed Matter: FB52
 FEL Science: FB55
 Life Sciences: FD41
 Novel Spectroscopy: FB51

13:00 – 14:00 **LUNCH**

Plenary session. Room: FD5
Chair: Mats Larsson
 14:00 – 14:30 Science Opportunities for the LCLS-II High Repetition Rate Soft X-ray Laser, *Robert Schoenlein*
 14:30 – 15:00 Experimental strategies and research perspectives taking advantage of fully coherent EUV-Soft X-ray FERMI radiation, *Maya Kiskinova*
 15:00 – 15:30 Soft x-ray science opportunities and instrumentation at European XFEL, *Andreas Scherz*

15:30 – 16:00 **COFFEE BREAK**

16:00 – 17:30 **Plenary Session. Room: FD5**
Chair: Anders Nilsson
BREAKOUT SESSIONS SUMMARY (15 minutes/group)

Continued on next page... →

WEDNESDAY, MARCH 23

Plenary session. Room: FD5

Chair: Mats Larsson

09:00 – 09:30

FLASH - a High Repetition Rate XUV and Soft X-Ray FEL, *Wilfried Wurth*

09:30 – 10:00

SwissFEL: expanding capabilities with ATHOS, *Rafael Abela*

10:00 – 10:30

COFFEE BREAK

10:30 – 12:00

BREAKOUT SESSIONS

AMO: FB41

Chemistry: FB42

Condensed Matter: FB52

FEL Science: FB55

Life Sciences: FD41

Novel Spectroscopy: FB51

12:00 – 13:00

LUNCH

13:00 – 14:30

Plenary Session. Room: FD5

Chair: Anders Nilsson

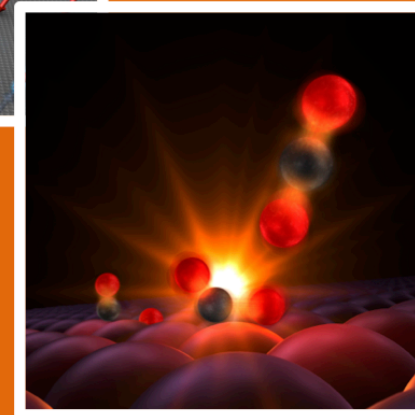
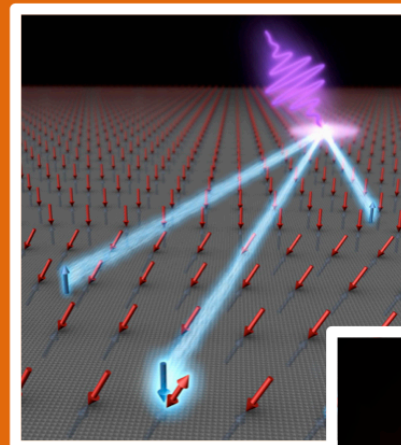
BREAKOUT SESSIONS SUMMARY (15 minutes/group)

14:30 – 14:55

Summary of the meeting, *Ingolf Lindau*

14:55 – 15:00

End of meeting, *Anders Nilsson*



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The Soft X-ray Laser @ MaxIV

*Workshop to Define the Science Case for a
Soft X-ray Laser Beamline at MAX IV*



Albanova University Centre, Stockholm
March 21 – 23, 2016