



## International Workshop on the Materials Imaging and Dynamics Instrument at the European XFEL

October 28/29, 2009

Wednesday October 28th

European Synchrotron Radiation Facility (ESRF), Grenoble, France

## **Draft program**

## 8.30 - 9.00Registration Session I. X-ray FELs and MID instrument 9.00 - 9.05H. Reichert Welcome note 9.05 - 9.20M. Altarelli Status of the European XFEL 9.20 - 9.45Th. Tschentscher The MID instrument at the European XFEL 9.45 - 10.15I. Vartaniants Coherent Diffraction Imaging using X-ray FELs 10.15 - 10.45Photon Correlation Spectroscopy using X-ray FELs General discussion: MID instrument scope 10.45 - 11.0011.00 - 11.20Coffee break Session II. **Coherent Diffraction Imaging** (all talks 25+5 min) 11.20 - 11.50Coherent diffraction for condensed matter physics 11.50 - 12.20T. Salditt CDI imaging of supported bio-objects 12.20 - 12.50Study of the initial stages of crystallization 12.50 - 14.00Lunch Session III. **X-ray Photon Correlation Spectroscopy** (all talks 25+5 min) 14.00 - 14.30P. Wochner X-ray Cross Correlation Analysis B. Stephenson 14.30 - 15.00

*Large-q photon correlation spectroscopy* 

Soft condensed matter studies

L. Cipelletti

15.00 - 15.30

15.30 – 15.50	Tea/Coffee break
Session III. Instrumentation (all talks 20+10 min)	
15.50 – 16.20	H. Sinn X-ray optic and beam transport effects to FEL radiation properties
16.20 – 16.50	A. Robert The XPCS instrument at LCLS
16.50 – 17.20	S. Boutet CDI experiments at the LCLS
17.20 – 18.00	H. Graafsma  Area detector developments for CDI and XPCS experiments
Session IV. Instrumentation working groups	
18.00 - 18.30	Definition of working groups and their tasks.
	Suggested working groups:
	WG I CDI (O. Thomas & I. Vartaniants)
	WG II XPCS (Ch. Schüßler-Langeheine & G. Grübel)
20:00 Dinne	er at <i>PIGNOL Sainte Cécilie</i> (18, Rue d'Alma, 38000 Grenoble)
Thursday October 29 <sup>th</sup>	
9.00 - 13.00	WG I & II (each incl. short presentations, e.g. 3 x 15 min.)
	WG I CDI
	<ul> <li>N. Vaxelaire / Coherent Diffraction Imaging of strains as a tool to investigate the mechanics of polycrystals</li> </ul>
	• H. Poulsen / Material research studies with coherent x-rays at XFEL
	• I. Robinson / Coherent diffractive imaging at XFEL
	WG II XPCS
	B. Sepiol / Atomic diffusion investigation by XPCS
	<ul> <li>A. Madsen / Recent XPCS activities and their relation to XFEL experiments</li> </ul>
	• H. Sinn / Phonons with XPCS
	Coffee/Tea will be available during the sessions
13.00 - 14.00	Lunch break
14.00 - 15.00	WG I & II: Preparation of initial drafts of working group report
15.00 - 15.20	Coffee/Tea break
Session VII. Concluding session	
15.20 – 15.50	WG-1 & WG-II chairs Presentation of working group findings
15.50 - 16.50	General discussion: MID instrument scope & realization
16.50 – 17:00	NN Summary of the Workshop
End of workshop	