European XFEL GmbH
Albert-Einstein-Ring 19
22761 Hamburg
Germany

07 July 2012

Programme
Science with Seeded SASE Beams

Thursday, 19 July 2012

08:30 - 09:15	Registration
09:15 - 09:40	Welcome and Introduction (T. Tschentscher, G. Geloni)

Solid State Spectroscopy (Chair: S. Molodtsov)

09:40 - 10:25	K. Rossnagel: Time-resolved ARPES with Free-Electron Lasers
10:25 - 11:10	M. Weinelt: Spin and magnetization dynamics studied with femtosecond UV and VUV radiation
11:10 - 11:55	G. Monaco: New Opportunities for Inelastic X-ray Scattering at the XFEL

LUNCH

New Developments I (Chair: M. Altarelli)

13:15 - 14:00	C. Masciovecchio: Seeded FEL based Pump and Probe experiments
14:00 - 14:35	M. Yabashi: Plan for seeded XFEL at SACLA

Coherent Diffractive Imaging (Chair: A. Mancuso)

14:35 - 15:20	H. Chapman: Requirements for single molecule imaging

COFFEE/TEA BREAK

15:45 - 16:30	H. Quiney: FEL biomolecular imaging with SASE and seeded beams: a theoretical comparison

Atomic and Molecular Physics (Chair: M. Meyer)

16:30 - 17:15	R. Santra: Nonlinear processes in atoms
17:15 - 18:00	J. Crespo: Astrophysics and X-ray metrology with highly charged ions with a seeded XFEL

DINNER

Friday, 20 July 2012

XPCS and Speckle Experiments (Chair: A. Madsen)

08:30 - 09:15	A. Robert: Hard X-ray self seeding for improved performances of XFEL experiments requiring monochromatic beams or the control of the longitudinal coherence length
09:15 - 10:00	P. H. Fuoss: Coherent X-Ray Scattering Studies of Materials Physics with a Seeded FEL

New Developments II (Chair: T. Tschentscher)

10:00 - 10:45	B. Patterson: X-Ray Four-Wave Mixing with a Seeded FEL

COFFEE/TEA BREAK

11:05 - 11:50	G. Gregori: Measuring ion and electron correlations in dense plasmas
11:50 - 12:35	J. Evers: Nuclear quantum optics with seeded FEL beams
12:35 - 13:00	Close Out. Summary and Conclusions (XFEL MB)