

Extreme Conditions Research
Satellite Meeting
Photon Science Annual User Meeting

January 24th 2013

DESY, Hamburg

Tentative Schedule

Thursday 24 th 2013		
Session 1: The Large Volume Press beamline		
<i>Chair: N. Nasyiama (DESY)</i>		
9:00 – 9:15	Registration and Welcome	H. Franz (DESY)
9:15 – 9:35	Update on the Large Volume Press (LVP) beamline	N. Nasyiama (DESY)
9:35 – 10:00	BMBF proposal for the construction of LVP experimental station at DESY	T. Katsura (BGI)
10:00 – 10:20	Coffee Break	
Session 2: The Extreme Conditions Beamline		
<i>Chair: H. P. Liermann (DESY)</i>		
10:20 – 10:50	Status on the (ECB) Extreme Conditions Beamline	H.-P. Liermann (DESY)
10:50 – 11:10	Pulsed laser heating at the ECB (tentative)	Z. Konopkova (DESY)
11:10 – 11:30	Combining Brillouin scattering and X-ray diffraction at the Extreme Conditions Beamline of PETRA III to study the elastic properties of materials at very high pressures	S. Speziale (GFZ)
11:30 – 12:00	The laser heated diamond anvil cell as a reaction chamber	B. Winkler (U Frankfurt)

12: 00– 13:15	Lunch Break	
13:15 – 13:45	Crystallography at 100 GPa and above	L. Dubrovinsky (BGI)
13:45 – 14:05	Partitioning of elements in the early Earth's mantle using X-Ray analyses	S. Petitgirard (BGI)
14:05 – 14:35	Structures, transitions, and distortions of highly compressed carbon dioxide	S-C. Yoo (Washington State U)
14:35 – 15:05	Studies of the Melting of High-Density Potassium on PETRA	M. McMahon (U Edinburgh)
15:05 – 15:30	Coffee Break	
Session 3: The Helmholtz Beamline at the HED instrument at the European XFEL		
<i>Chair: T. Tschentscher (Eur. XFEL)</i>		
15:30 – 15:55	Current status of the HED instrument at the European XFEL	M. Nakatsutsumi (Eur. XFEL)
15:55 – 16:20	Status of the Helmholtz Beamline Proposal	T. Cowan (HZDR)
Session 4: Peak Brightness Collaboration		
<i>Chair: S. Toileikis (DESY)</i>		
16:20 – 16:35	XANES to study WDM at FELs	M. Harmand (LULI)
16:35 – 16:50	Time-resolved study of free-free opacity in dense plasmas	S. Vinko (U Oxford)
16:50 – 17:05	Thomson scattering on inhomogeneous carbon foils	P. Sperling (U Rostock)
17:05 – 17:30	Coffee Break	
17:30 – 17:45	ToF measurements on mimivirus (and other single particles) from FLASH and LCLS	J. Andreasson (U Uppsala)
17:45 – 18:00	Modeling of nanoplasmas created from finite systems irradiated by intense ultrashort hard X-ray pulses	Z. Jurek (CFEL)
18:00 – 18:15	Single-shot pulse duration monitor for XUV and X-ray free-electron lasers (tentative)	R. Riedel (HI Jena)
18:15 – 18:30	Measurements of Continuum Lowering in Dense Plasmas	O. Ciricosta (U Oxford)