

# **Coherence Beamline at Petra III: User Workshop**

Thursday 05<sup>th</sup> of March 2009 – Friday 06<sup>th</sup> of March 2009

DESY, Notkestr. 85, 22603 Hamburg, Germany

Building 25f, Room 456

## **Programme**

Thursday 05<sup>th</sup> of March 2009

Session #01: Currently planned Infrastructure (Chair: Gerhard Grübel):

- |    |             |  |
|----|-------------|--|
| 1) | 12:30-13:00 | Registration                                     |
| 2) | 13:00-13:15 | Gerhard Grübel ('Welcome')                       |
| 3) | 13:15-13:45 | Hermann Franz ('Introduction to Petra III')      |
| 4) | 13:45-14:15 | Olaf Leupold ('Coherence Beamline P10 Part 1')   |
| 5) | 14:15-14:45 | Michael Sprung ('Coherence Beamline P10 Part 2') |

Coffee Break 14:45-15:15

Session #02: Experimental techniques (Chair: Michael Sprung):

- |    |             |   |
|----|-------------|---|
| 1) | 15:15-15:45 | Franz Pfeiffer ('Coherent X-Ray Bio-Imaging:<br>Principles & New Results')                        |
| 2) | 15:45-16:15 | Christian Gutt ('X-Ray Photon Correlation Spectroscopy')  |
| 3) | 16:15-16:45 | Bernd Struth ('A new approach to the combination of rheology<br>and x-ray scattering at HASYLAB') |
| 4) | 16:45-17:15 | Tim Salditt ('Biological imaging with coherent x-rays')   |

Beamline walkthrough 45min (Olaf Leupold + Michael Sprung)

Dinner (19:00 - ...)

Friday 06<sup>th</sup> of March 2009

Session #01 Coherent Diffraction Imaging (Chair: Olaf Leupold):

- 1) 08:30-08:50 Christian Schroer ('Coherent imaging with nanofocused beams')
- 2) 08:50-09:10 Robert Frömter ('X-ray Holographic Microscopy')
- 3) 09:10-09:30 Ivan Vartanants ('Coherent X-ray diffraction imaging of nanoislands:  
Challenges for PETRA III')
- 4) 09:30-09:50 Alec Sandy ('CDI and XPCS at 8ID')
- 5) 09:50-10:20 Discussion

Coffee Break 10:20-10:40

Session #02 X-ray Photon Correlation Spectroscopy (Chair: Michael Sprung):

- 1) 10:40-11:00 Luca Cipelletti ('Probing dynamical heterogeneity by XPCS')
- 2) 11:00-11:20 Steffen Fischer ('In-situ structural investigations of soft materials')
- 3) 11:20-11:40 Bogdan Sepiol ('Atomic diffusion investigated with coherent X-rays')
- 4) 11:40-12:00 Uwe Klemradt ('Avalanches and non-stationary behavior  
at the martensitic phase transition of Au-Cd  
by wide angle XPCS')
- 5) 12:00-12:30 Discussion

Lunch break 12:30-13:30

Session 3 (Final Discussion + Summary):

- 1) 13:30-15:30 Final Discussion + Summary (Chair: Michael Sprung)

End of workshop (15:30)