

**Research Course on New X-ray Sciences**  
**Scientific Applications of Coherent X-ray Radiation**  
 March 1-3, 2006, Bldg. 28c, HASYLAB/DESY, Hamburg

**Final Program**

<b>Wednesday, Mar 1, 2006</b>			
09:30	Welcome to DESY	J. Schneider	DESY
09:45	Introduction	G. Grübel	DESY
	<b>Sources of Coherent Light</b>	T. Tschentscher (Chair)	DESY
10:00	Coherence Properties of Visible Laser Sources	G. Huber	Laser-Institute, Univ. Hamburg
11:15	Coffee break		
11:45	Coherence of Undulator Light	B. Lengeler	RWTH Aachen
13:00	Lunch break		
14:30	Coherence Properties of SASE FEL Light: A Theoretical Discussion	G. Geloni	DESY
15:45	Coffee break		
16:15	Coherent Matter Waves	A. Hemmerich	Laser-Institute, Univ. Hamburg
17:30	Visit of the VUV-FEL facility		
19:00	Dinner (DESY Bistro)		
<b>Thursday, Mar 2, 2006</b>			
	<b>Dynamic Light Scattering</b>	G. Grübel (Chair)	DESY
08:30	Photon Correlation Spectroscopy	P. Pusey	University of Edinburgh
09:45	Coffee break		
10:15	Dynamic fluctuations of polymers and colloids studied by x-ray photon correlation spectroscopy	S. Mochrie	Yale University
11:30	Short break		
11:45	Dynamics of Soft Matter Surfaces Investigated with X-ray Photon Correlation Spectroscopy	C. Gutt	DESY
13:00	Lunch break		
14:30	Higher-Order Correlations in Electromagnetic Fields and their Applications	A. Dogariu	University of Central Florida
15:45	Coffee break		
16:15	Near Field Scattering	M. Giglio	University of Milano
18:00	Poster Session (HASYLAB Foyer)		
<b>Friday, Mar 3, 2006</b>			
	<b>Coherent Diffraction and Imaging</b>	B. Lengeler (Chair)	RWTH Aachen
08:30	Phase Retrieval and Wavefield Measurement	K. Nugent	University of Melbourne
09:45	Coffee break		
10:15	Progress and Prospects in Coherent X-ray Diffraction Microscopy	M.R. Howells	ALS, Berkeley
11:30	Short break		
11:45	Imaging and Image Reconstruction	S. Marchesini	LLNL, Livermore
13:00	Lunch break		
14:30	Single Molecule Imaging	J. Hajdu	University of Uppsala
15:45	Coffee break		
16:15	Looking into the Nanoworld with Coherent Diffraction	I. Vartianants	DESY
17:30	End of the Meeting		