

404. Wilhelm and Else Heraeus-Seminar

Monday 17 March 2008 - Thursday 20 March 2008

**Physikzentrum Bad Honnef
Programme**

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Monday 17 March 2008

Basics about Coherence (08:30-09:15)

- Presenters: Bruno Lengeler

Theory of Coherence: Coherence properties of light, phase retrieval from intensities (09:15-10:00)

- Presenters: Keith Nugent

Coherence properties of FEL light available at SCSS (10:30-11:15)

- Presenters: T. Shintake

Coherence properties of the radiation from x-ray free electron lasers (11:15-12:00)

- Presenters: Mikhail Yurkov

Time-resolved diffraction using femtosecond laser-plasma-based X-ray sources (14:00-14:45)

- Presenters: Klaus Sokolowski-Tinten

High Harmonic Generation: An ultrafast coherent source (14:45-15:30)

- Presenters: John Tisch

Recent developments at the FLASH facility (16:00-16:45)

- Presenters: Josef Feldhaus

Generation and application of coherent EUV and soft x-ray radiation (16:45-17:30)

- Presenters: David Attwood

Tuesday 18 March 2008

Diffractive X-Ray Optics for Microscopy and Radiography Applications (08:30-09:00)

- Presenters: Christian David

Wave-Optical Properties of Refractive X-Ray Lenses (09:00-09:30)

- Presenters: Christian Schroer

Coherent Diffraction Optics for VUV and X-Rays (09:30-10:00)

- Presenters: Alexei Erko

Imaging Basics (10:30-11:15)

- Presenters: Janos Kirz

XPCS from Surfaces and Interfaces (11:15-12:00)

- Presenters: Metin Tolan

Photon correlation spectroscopy with visible light (14:00-14:45)

- Presenters: Peter Pusey

Non-equilibrium Dynamics of Cu₃Au (14:45-15:30)

- Presenters: Mark Sutton

Talks of PhD students and PostDocs (16:00-17:30)

Wednesday 19 March 2008

Coherent X-ray Diffraction Microscopy Applied to Nanoscience and Biology (08:30-09:15)

- Presenters: John Miao

Coherent X-ray Diffraction Images of Nanowires (09:15-10:00)

- Presenters: Ian Robinson

Recent studies of fluctuations in polymer films using XPCS (10:30-11:15)

- Presenters: Sunny Sinha

Viscoelastic properties of gels and glassy matter studied by XPCS (11:15-12:00)

- Presenters: Anders Madsen

Partial coherence in ptychographical lensless image reconstruction (14:00-14:45)

- Presenters: John Rodenburg

The FEL detector challenge and one possible solution to it (14:45-15:30)

- Presenters: Heinz Graafsma

High speed spectroscopic imaging of X-rays from 100 eV to 25 keV (16:00-16:45)

- Presenters: Lothar Strüder

Future detector technologies for FEL radiation (16:45-17:30)

- Presenters: R. Horisberger

Thursday 20 March 2008

Coherent X-ray Microscopy & Lensless Imaging (08:30-09:15)

- Presenters: Franz Pfeiffer

X-Ray Holography (09:15-10:00)

- Presenters: Stefan Eisebitt

X-ray imaging techniques exploiting the coherence properties of light (10:30-11:15)

- Presenters: Peter Cloetens

Diffractive imaging using coherent photon pulses from FELs (11:15-12:00)

- Presenters: Henry Chapman

Coherent ultracold matter (14:00-14:45)

- Presenters: A. Hemmerich

The European x-ray free-electron laser project in Hamburg (14:45-15:30)

- Presenters: Massimo Altarelli