

Schedule of Sessions

March 5th, Monday

9:00-9:10 | **T. Sawada** Japan Science and Technology Agency (Japan)
Opening

Session 1 (Chair: A. Momose)

9:10-9:40 | **F. Pfeiffer** Technische Universität München (Germany)
Keynote introduction to grating-based X-ray phase-contrast imaging

9:40-10:10 | **I. Zanette** Technische Universität München (Germany)
Developments in grating-based X-ray imaging at the ESRF beamline ID19

10:10-10:40 | **C. Kottler** CSEM (Switzerland)
Recent developments on X-ray phase contrast imaging technology at CSEM

10:40-10:55 | Coffee Break

Session 2 (Chair: T. Weitkamp)

10:55-11:25 | **C. David** PSI (Switzerland)
X-ray grating interferometry - applications in metrology and source diagnostics on synchrotrons and XFELs

11:25-11:55 | **G. Sato** Canon (Japan)
Single shot X-ray phase-contrast imaging using two-dimensional gratings

11:55-12:25 | **J. Primot** ONERA (France)
Multi-lateral shearing interferometry: Principles and application to X-ray phase imagery

12:25-13:40 | Lunch

Session 3 (Chair: C. David)

13:40-14:10 | **J. Mohr** KIT (Germany)
High aspect ratio gratings for X-ray phase imaging

14:10-14:40 | **T. Hattori** University of Hyogo (Japan)
Fabrication of large area X-ray diffraction grating for X-ray phase imaging

14:40-15:10 | **H. H. Wen** NIH (USA)
Towards nanometer gratings for hard X-ray phase-sensitive imaging

15:10-15:40 | **J. Guo** Shenzhen University (China)
Development of key devices of grating-based X-ray phase-contrast imaging technology in Shenzhen University

15:40-16:00 | Photo, Coffee Break

Poster Session

16:00-18:00 | Poster Session

March 6th, Tuesday

Session 4 (Chair: F. Pfeiffer)

9:00-9:30 | **A. Momose** University of Tokyo (Japan)
X-ray phase imaging —from static observation to dynamic observation—

9:30-10:00 | **T. Koehler** Philips (Germany)
Simultaneous de-noising in phase contrast tomography

10:00-10:30 | **Z. F. Huang** Tsinghua University (China)
Low dose X-ray grating-based imaging and tomography

10:30-10:45 | Coffee Break

Session 5 (Chair: C. David)

10:45-11:15 | **T. Weitkamp** SOLEIL (France)
Instrumental and methodological aspects of X-ray grating interferometry at a third-generation synchrotron

11:15-11:45 | **G. Potdevin** Technische Universität München (Germany)
Directional dark field imaging for biomedical applications

11:45-12:15 | **R. Ruth** SLAC/Lyncean (USA)
The Compact Light Source: A miniature synchrotron producing X-rays via inverse Compton scattering

12:15-13:30 | Lunch

Session 6 (Chair: T. Weitkamp)

13:30-14:00 | **J. Kiyohara** Konica Minolta Medical & Graphic (Japan)
Development of the Talbot-Lau interferometry system available for clinical use

14:00-14:30 | **G. H. Chen** University of Wisconsin-Madison (USA)
Optimization of X-ray differential phase contrast computed tomography (DPC-CT) for medical applications

14:30-15:00 | **M. Stampanoni** PSI (Switzerland)
Current challenges in clinical gratings-interferometry: A mammography study

15:00-15:15 | Coffee Break

Session 7 (Chair: A. Momose)

15:15-15:45 | **B. Müller** University of Basel (Switzerland)
Grating-based tomography of human tissues

15:45-16:15 | **H. Onodera** Nishitaga National Hospital (Japan)
Visualization of neurons in the brain and spinal cord with phase-contrast CT

16:15-16:45 | **M. Strobl** ESS (Sweden)
Neutron imaging with phase grating and future potential

16:45-17:15 | **S. W. Lee** KAERI (Korea)
Optimization study of neutron grating interferometry for polychromatic thermal neutrons at HANARO

March 7th, Wednesday

Session 8 (Chair: F. Pfeiffer)

9:00-9:30 | **A. Olivo** UCL (UK)
"Edge-illumination" in X-ray phase contrast imaging

9:30-10:00 | **K. S. Morgan** Monash University (Australia)
Single grating X-ray imaging for dynamic biological systems

10:00-10:30 | **M. Bech** Technische Universität München (Germany)
Results from the first preclinical CT scanner with grating based phase-contrast and a rotating gantry

10:30-10:45 | Coffee Break

Session 9 (Chair: A. Momose)

10:45-11:15 | **P. Zhu** IHEP (China)
Is it feasible a grating based image of a human body?

11:15-11:45 | **W. Yashiro** University of Tokyo (Japan)
Hard-X-ray phase microscopy with a transmission grating

11:45-12:00 | Closing