



# X-ray and Neutron Phase Imaging with Gratings 2017

## Wednesday, 13 September 2017

**Lunch break & Poster session - HG (12:30 - 14:30)**

[id] title	presenter	board
[25] Process challenges in the fabrication of sub- $\mu\text{m}$ structures using deep X-ray lithography	Mr FAISAL, Abrar	
[26] Improved reconstruction technique for Moiré imaging using an x-ray Talbot-Lau interferometer	Ms SEIFERT, Maria	
[27] Directional X-ray dark-field imaging using a grating-based Talbot-Lau phase-contrast set-up	Ms LUDWIG, Veronika	
[21] Obliquely evaporated gadolinium grating fabrication and its evaluation by X-ray microscope	Dr SAMOTO, Tetsuo	
[28] Pulse current electroplating of gold to deposit on the wall of high aspect ratio silicon grating	Mr SONG, Tae-Eun	
[29] Fabrication of high aspect ratio gratings with reinforcing ribs for X-ray phase contrast imaging	Ms HU, Yue	
[4] Mass density resolution in grating-based X-ray phase radiography	Dr WU, Zhao	
[58] Systematic analysis of in-vivo dark-field signal in pig lungs	Mr DE MARCO, Fabio	
[56] Performance evaluation of reverse projection method for grating based X-ray phase contrast tomography	Ms BUECHNER, Maria	
[50] Extending the Aspect Ratio of Etched Silicon for Precision Electro-coating with Gold to Fabricate XPCI Analyzer Gratings	FINNEGAN, Patrick	
[53] Characteristic test of visibility, phase sensitivity and resolution at symmetry type of neutron grating interferometer	Mr KIM, Youngju	
[52] A study of phase-grating shapes to improve spatial resolution in X-ray Talbot interferometry	Dr IKEMATSU, Katsumasa	
[88] Irradiance Distribution of an X-ray Source Illuminating Bi-prism Gratings	Prof. GULLBERG, Grant	
[83] How many gratings are needed for a high sensitivity differential phase contrast imaging system?	Dr ZHANG, Ran	
[80] Dual axis Dark Field Contrast Tomography for visualisation of scattering directions in a CFRP sample	Mrs JANSSENS, Eline	
[84] Optimization of Grating Interferometer Parameters for a General Three-Grating Interferometer	Dr ZHANG, Ran	
[85] Voids and Cracks in Polymers and Metals made Visible with X-ray and Neutron Dark-Field Imaging	Dr BUTLER, Les	
[3] A novel description of differential phase contrast imaging	Prof. PEIPING, Zhu	
[38] Noise comparison of phase-stepping and angular signal radiography	Mr WALI, Faiz	
[33] Improving the delineation of resin-rich areas in carbon-fibre reinforced polymers using phase-contrast imaging	Mr PLANK, Bernhard	
[37] X-ray phase nano-tomography using Talbot interferometer based X-ray microscopy	Dr WU, Yanlin	

[61] Grating-based X-ray phase-contrast imaging with incomplete data	Dr LIAN, SONGZHE	
[62] Deconvolution-based Reconstruction Filter Design for Differential Tomography	Mr KAEPLER, Sebastian	
[63] Time Domain Parameter Estimation in X-Ray Contrast Imaging	Dr DAGEL, Amber	
[64] Neutron Talbot-Lau interferometry at pulsed neutron imaging system "RADEN" in J-PARC	Dr SEKI, Yoshichika	
[68] Large area small pitch gratings for x-ray interferometry by Displacement Talbot lithography	Dr JEFIMOV, Konstantins	
[94] Grating interferometry versus propagation-based phase contrast imaging in mice: a user perspective	TRACHET, Bram	
[11] A modified iterative algorithm for large object in grating-based X-ray phase contrast computed tomography	Mr WEI, Wenbin	
[10] Retrieval of monochromatic fringe phase shifts in polychromatic grating interferometry	Prof. WU, Xizeng	
[13] Single-step Phase retrieval in Full-field x-ray microscopy using a Dual-period Grating	Prof. GAO, Kun	
[12] DPC2.0: A new flexible design for grating interferometry at the TOMCAT beamline of the Swiss Light Source	Dr PATERA, Alessandra	
[15] Dynamic application based on X-ray phase tomography using grating interferometer	Dr HOSHINO, Masato	
[19] Development of X-ray phase-contrast CT system with conventional X-ray sources	Mr KAGEYAMA, Masashi	
[48] Ex-vivo study of suspicious microcalcifications in breast tissue biopsies using grating interferometry	Dr WANG, Zhentian	
[44] Targeted Local Stress Imprint in Electrical Steel as Means of Improving the Energy Efficiency	Mr BACKS, Alexander Mr WEISS, Hannes	
[76] Feasibility test of the high aspect-ratio grating by ALD process for the X-ray interferometer	Mr LEE, Seho Prof. LEE, Seung Wook	
[75] Electrochemically detecting photoresist development endpoint for HAR grating microfabrication	Mr ARRINGTON, Christian L.	
[73] Nested Tomography: Application to Direct Ellipsoid Reconstruction in Anisotropic Darkfield Tomography	Mr DITTMANN, Jonas	
[72] A workflow to reconstruct grating-based X-ray phase contrast CT images: application to CFRP samples	Mr SANCTORUM, Jonathan	
[78] Numerical fringe analysis of light optics concept at high x-ray energy grating interferometer	Mr KIM, Daeseung	
[24] Oblique Incidence Effect in X-ray Phase Contrast Imaging using High Aspect Ratio Gratings	Dr SANO, Satoshi	FAME-001