IT-11. Electron holography and lens-less imaging
8 September, 17:00 - 19:00 / 9 September, 16:30 - 18:30

IT-11-P-1472
Restoration of Singularities in Reconstructed Phase of Crystal Image in Electron Holography
Presenting author: Li W.
Authors: Li W., Tanji T.,

IT-11-P-1514
Observation of the magnetic flux and three-dimensional structure of skyrmion lattices by electron holography
Presenting author: Park H. S.
Authors: Park H. S., Yu X., Aizawa S., Tanigaki T., Akashi T., Takahashi Y., Matsuda T., Kanazawa N., Onose Y., Shindo D., Tokura Y.

IT-11-P-1535
Strain fields in the vicinity of SiGe nanopyramids evidenced by focus series phase retrieval imaging
Presenting author: Donnadieu P.
Authors: Donnadieu P., Neisius T., Liu K., Aqua J. N., Ronda A., Berbezier I.

IT-11-P-1545
A thin film Zernike phase plate micro fabricated using MEMS technology.
Presenting author: Konyuba Y.
Authors: Konyuba Y., Iijima H., Abe Y., Suga M., Ohkura Y.

IT-11-P-1565
Factors affecting phase noise in off-axis electron holography
Presenting author: Boothroyd C. B.
Authors: Boothroyd C. B., Dwyer C., Chang S., Dunin-Borkowski R. E.

IT-11-P-1673
Observation of Fraunhofer Diffraction Pattern with Electron Vortex Beam using Fork-Shaped Grating with Various Opening Shapes
Presenting author: Harada K.
Authors: Harada K., Kohashi T., Iwane T.

IT-11-P-1676
Noise estimation for off-axis electron holography
Presenting author: Röder F.
Authors: Röder F., Lubk A., Wolf D., Niermann T.

IT-11-P-1720
Operating principles and practical applications of hole-free phase plate imaging
Presenting author: Malac M.
Authors: Malac M., Kawasaki M., Beleggia M., Pollard S., Zhu Y., Egerton R., Okura Y.

IT-11-P-1723
Direct Observation of Magnetic Domain Walls by Lens-Less Foucault Imaging (LLFI)
Presenting author: Taniguchi Y.
Authors: Taniguchi Y., Matsumoto H., Harada K.
IT-11-P-1725
Twin-Foucault Imaging for Observing 180° Domains in Magnetic Materials
Presenting author: Harada K.
Authors: Harada K.

IT-11-P-1727
Observation of Magnetic Field by Combination of Electron Tomography and Holography
Presenting author: Harada K.
Authors: Tsuneta R., Ikeda M., Ono S., Yamane M., Sugawara A., Harada K., Koguchi M.

IT-11-P-1784
Accumulation Processing in Reconstruction for Electron Holography
Presenting author: Kasai H.
Authors: Kasai H., Harada K.

IT-11-P-1790
Phase Reconstruction in Annular Bright Field STEM
Presenting author: Ishida T.
Authors: Ishida T., Kawasaki T., Kodama T., Ogai K., Ikuta T., Tanji T.

IT-11-P-1940
Experimental evaluation of magnetic phase reconstruction in Lorentz TEM using the ‘transport-of-intensity’ equation
Presenting author: Kohn A.
Authors: Kohn A., Habibi A.

IT-11-P-1945
Dopant mapping in thin FIB prepared silicon samples by off-axis electron holography
Presenting author: Kohn A.
Authors: Kohn A., Pantzer A., Vakahy A., Eliyahou Z., Levi G., Horvitz D.

IT-11-P-1954
Specimen Charging Measured by Off-axis Electron Holography
Presenting author: McLeod R. A.
Authors: McLeod R. A., Beleggia M., Malac M.

IT-11-P-2006
Solving the transport of intensity equation using flux-preserving boundary conditions
Presenting author: Parvizi A.
Authors: Parvizi A., Koch C. T.

IT-11-P-2111
Optimisation of spatial and phase resolution of off-axis electron holography for detection of single dopant atoms.
Presenting author: Mayall B.
Authors: Mayall B., McLeod R. A., Cooper D.

IT-11-P-2202
Toward a 3D strain mapping at nanometer scale with Dark-Field Electron Holography
Presenting author: Javon E.
Authors: Javon E., Gatel C., Hýtch M. J., Bals S., Van Tendeloo G.
**IT-11-P-2409**
Low-keV electron microscope based on a single-atom electron source  
Presenting author: Chang W. T.  
Authors: Chang W. T., Lin C. Y., Hsu W. H., Chen Y. S., Hwang I. S.

**IT-11-P-2437**
Reconstruction of the projected crystal potential using HRTEM – prospects for materials science investigations  
Presenting author: Lentzen M.  
Authors: Lentzen M., Barthel J.

**IT-11-P-2687**
Direct Imaging of Two-Dimensional Electron Gas at Oxide Interfaces using Inline Electron Holography  
Presenting author: Song K.  
Authors: Song K., Ryu S., Lee H., Choi S., Paudel T. R., Koch C. T., Rzchowski M. S., Tsymbal E. Y., Eom C., Oh S.

**IT-11-P-2718**
80 kV double biprism electron holography  
Presenting author: Genz F.  
Authors: Genz F., Niermann T., Lehmann M.

**IT-11-P-2738**
Nanoscale strain analysis by dark-field electron holography of shallow trench isolation structures for MOSFET technology  
Presenting author: Alexander D. T.  
Authors: Ravaux F., Cherkashin N., Lolivier J., Alexander D. T.

**IT-11-P-2745**
Presenting author: Hirayama T.  
Authors: Hirayama T., Yamamoto K., Shimoyamada A., Yoshida R., Iriyama Y.

**IT-11-P-2987**
Distribution of electric field and mechanical vibrations of CdS nanocombs during field emission  
Presenting author: Migunov V.  

**IT-11-P-3018**
Experimental electron holographic tomography of magnetic vector fields in nanoscale materials  
Presenting author: Diehle P.  
Authors: Diehle P., Caron J., Kovacs A., Ungermann J., Kardynal B., Dunin-Borkowski R. E.
IT-11-P-3140
Electron Beam induced Currents in GaN p-n Junctions
Presenting author: Park J. B.
Authors: Park J. B., Niermann T., Lehmann M.

IT-11-P-3191
Hybridization of Off-Axis and Inline High-Resolution Electron Holography
Presenting author: Ozsoy Keskinbora C.

IT-11-P-3505
Electron holography for magnetic and electric in situ imaging
Presenting author: Ponce A.
Authors: Ponce A., Cantu-Valle J., Diaz Barriga E., Luna C., Mendoza-Santoyo F., Jose Yacaman M., Eder J.