

[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 nanopillars 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-1659

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., Hÿtch 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

Electron Holography and Electron Energy Loss Spectroscopy for Studying Electrochemical Reactions at Electrode/Electrolyte Interfaces in a Lithium-Ion Battery

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.**

Authors: Migunov V., Duchamp M., Liu R., Kamran M. A., Zuo B., Li Z., Farle M., Dunin-Borkowski R. E.

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.**

Authors: Ozsoy Keskinbora C., Boothroyd C. B., Dunin-Borkowski R. E., van Aken P. A., Koch C. T.

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 Yacamán M., Eder J.