

PCSI-49 Program Overview

Room /Time	Ballroom South
SuA	PCSI-SuA: New Developments in Oxide Materials & Growth
SuE	PCSI-SuE: Probing Exotic Order Parameters with Photoemission Spectroscopy
MoM	PCSI-MoM1: Semiconductor Heterostructures (Growth, Nanostructures & Interfaces) I PCSI-MoM2: 2D Materials and Graphene I
MoA	PCSI-MoA1: Materials for Catalysis, Energy Storage, and Energy Harvesting PCSI-MoA2: Topological Materials & Interfaces I
MoE	PCSI-MoE: Topological Materials & Interfaces II
TuM	PCSI-TuM1: Magnetic Materials (2D, Monolayers, & Heterostructures) PCSI-TuM2: Organic and Hybrid Semiconductor Materials & Interfaces
TuE	PCSI-TuE: Point Defects for Quantum Information Applications
WeM	PCSI-WeM1: Ferroelectric & Neuromorphic Computing Materials PCSI-WeM2: Spin Transport and Spintronics
WeA	PCSI-WeA1: Characterization of Interfaces and Devices PCSI-WeA2: Semiconductor Heterostructures (Growth Nanostructures & Interfaces) II
ThM	PCSI-ThM1: Wide Bandgap Materials PCSI-ThM2: 2D Materials and Graphene II

Sunday Afternoon, January 14, 2024

PCSI Room Ballroom South - Session PCSI-SuA New Developments in Oxide Materials & Growth Moderator: Alex Demkov, The University of Texas		
4:00pm	INVITED: PCSI-SuA-1 Crystal-Chemical Origins of the Ultrahigh Conductivity of Metallic Delafossites, <i>Chris Leighton</i> , University of Minnesota	
4:05pm		
4:10pm		
4:15pm		
4:20pm		
4:25pm		
4:30pm		
4:35pm		
4:40pm	INVITED: PCSI-SuA-9 Superconductivity and Magnetism in Infinite-Layer Nickelate Heterostructures, <i>Jennifer Fowlie</i> , SLAC National Lab	
4:45pm		
4:50pm		
4:55pm		
5:00pm		
5:05pm		
5:10pm		
5:15pm		
5:20pm	PCSI-SuA-17 The Redox Chemistry of Oxide Molecular Beam Epitaxy, <i>Oliver Bierwagen</i> , Paul-Drude-Institut für Festkörperelektronik Leibniz-Institut im Forschungsverbund Berlin, Germany	
5:25pm	PCSI-SuA-18 Optical Phonon Modes in LaNiO_3 : Lattice Dynamics and Complete Polarization Analysis of Raman-Active Modes, <i>Hans Törnatzky</i> , Paul-Drude Institute for Solid State Electronics, Germany; <i>Z. Galazka</i> , Institut für Kristallzüchtung, Germany; <i>R. Gillen</i> , Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Germany; <i>O. Brand, M. Ramsteiner, M. Wagner</i> , Paul-Drude Institute for Solid State Electronics, Germany	
5:30pm	PCSI-SuA-19 Quantifying Oxygen Diffusion in Epitaxial SrTiO_3 Thin Films, <i>Sihang Hui</i> , University of Florida, Gainesville	
5:35pm	PCSI-SuA-20 Non-Trivial Electronic States in the EuO/KTaO_3 Interface Revealed by Quantum Oscillations in High Magnetic Fields, <i>K. Rubi</i> , Los Alamos National Laboratory; <i>M. Dumen, S. Chakraverty</i> , Institute of Nano Science and Technology, India; <i>S. Zeng, A. Ariando</i> , National University of Singapore; <i>M. Chan, N. Harrison</i> , Los Alamos National Laboratory	

Sunday Evening, January 14, 2024

<p>PCSI Room Ballroom South - Session PCSI-SuE Probing Exotic Order Parameters with Photoemission Spectroscopy Moderator: Chris Leighton, University of Minnesota</p>	
7:30pm	<p>INVITED: PCSI-SuE-1 Searching for the Excitonic Insulator State in Quantum Materials, <i>Edoardo Baldini</i>, The University of Texas at Austin</p>
7:35pm	
7:40pm	
7:45pm	
7:50pm	
7:55pm	
8:00pm	
8:05pm	
8:10pm	<p>PCSI-SuE-9 Comparative Study on Non-Linear and Linear Least Square Analyses Applied to X-Ray Induced Auger Electron Spectroscopy Transitions, <i>A. Gagliardi</i>, CNRS, ILV, France; <i>N. Fairley</i>, Casa Software Ltd, UK; <i>Solene Bechu</i>, CNRS, ILV, France</p>
8:15pm	<p>PCSI-SuE-10 Probing Electrons and Light in Nanomaterials Using the Photoelectric Effect, <i>Taisuke Ohta</i>, <i>A. Boehm</i>, <i>S. Gennaro</i>, <i>C. Dairon</i>, <i>A. Kim</i>, <i>K. Thuermer</i>, <i>J. Sugar</i>, <i>C. Spataru</i>, Sandia National Laboratories; <i>J. Fonseca Vega</i>, <i>J. Robinson</i>, Naval Research Laboratory; <i>T. Beechem</i>, Purdue University; <i>M. Sinclair</i>, <i>I. Brener</i>, <i>R. Sarma</i>, Sandia National Laboratories</p>
8:20pm	<p>INVITED: PCSI-SuE-11 Layer-by-Layer Engineering and Deciphering of Topological Orders in Magnetic Topological Insulators, <i>W. Lee</i>, University of Chicago; <i>S. Fernandez-Mulligan</i>, Yale University; <i>H. Tan</i>, Weizmann Institute of Science, Israel; <i>C. Yan</i>, University of Chicago; <i>Y. Guan</i>, <i>S. Lee</i>, <i>R. Mei</i>, <i>C. Liu</i>, Pennsylvania State University; <i>B. Yan</i>, Weizmann Institute of Science, Israel; <i>Z. Mao</i>, Pennsylvania State University; <i>Shuolong Yang</i>, University of Chicago</p>
8:25pm	
8:30pm	
8:35pm	
8:40pm	
8:45pm	
8:50pm	
8:55pm	

Monday Morning, January 15, 2024

Room Ballroom South			
8:30am	INVITED: PCSI-MoM1-1 Mechanisms and Applications for Remote Epitaxy of Heusler Compounds, <i>Jason Kawasaki</i> , University of Wisconsin - Madison	PCSI Session PCSI-MoM1 Semiconductor Heterostructures (Growth, Nanostructures & Interfaces) I Moderator: Kirstin Alberi , National Renewable Energy Laboratory	
9:10am	PCSI-MoM1-9 UPGRADED: High-Mobility Two-Dimensional Electron Gas with Quantized States in Polar-Discontinuity Doped $\text{LaInO}_3/\text{BaSnO}_3$ Heterostructure Grown by Molecular Beam Epitaxy, <i>G. Hoffmann</i> , Paul-Drude-Institut für Festkörperelektronik Leibniz-Institut im Forschungsverbund Berlin, Germany; <i>A. Hartl</i> , Paul Scherrer Institut, Switzerland; <i>M. Zupancic</i> , Leibniz-Institut für Kristallzüchtung, Germany; <i>A. Riaz</i> , University College London, UK; <i>V. Strocov</i> , Paul Scherrer Institut, Switzerland; <i>M. Albrecht</i> , Leibniz-Institut für Kristallzüchtung, Germany; <i>A. Regoutz</i> , University College London, UK; <i>Oliver Bierwagen</i> , Paul-Drude-Institut für Festkörperelektronik Leibniz-Institut im Forschungsverbund Berlin, Germany		
9:30am	PCSI-MoM1-13 Enabling Direct-Write Fabrication of Low Dimensional Micro- and Nanostructures on Supported and Suspended Substrates, <i>Irma Kuljanishvili</i> , Saint Louis University		
9:35am	PCSI-MoM1-14 Silicon (111) - Aluminum (111) - Amorphous Alumina: Asymmetric Quantum Well and Band Alignment, <i>Hanran Jin</i> , University of Texas at Austin, China; <i>A. Demkov</i> , University of Texas at Austin		
9:40am	PCSI-MoM1-15 Adsorption, Growth and Dewetting Dynamics of Silver on Si(001), <i>Kai Huang</i> , Guangdong Technion - Israel Institute of Technology, China		
9:45am	PCSI-MoM1-16 Spontaneous Growth of Silver on Si(001) Tuned by Substrate Temperature, <i>Xiaohang Huang</i> , <i>K. Huang</i> , Guangdong Technion - Israel Institute of Technology, China		
9:50am	PCSI-MoM1-17 Silicene Ribbons: Synthesis, Electronic and Geometric Structure at the Atomic Scale, <i>A. Costine</i> , University of Virginia; <i>Z. Gai</i> , Orak Ridge National Laboratory; <i>Petra Reinke</i> , University of Virginia		
9:55am			
10:00am	Coffee Break & Poster Viewing		
11:00am	INVITED: PCSI-MoM2-31 Interplay of Valley Polarized Dark Trion and Dark Exciton-Polaron in Monolayer WSe_2 , <i>Xiao-Xiao Zhang</i> , University of Florida		PCSI Session PCSI-MoM2 2D Materials and Graphene I Moderator: Kunal Mukherjee , Stanford University
11:40am	PCSI-MoM2-39 Evidence of Single Photon Emitters from 1L WSe_2 under Electrostatically Induced Strain, <i>Frances Camille Wu</i> , <i>S. Wu</i> , <i>B. Fang</i> , <i>X. Li</i> , <i>J. Incorvia</i> , <i>E. Yu</i> , The University of Texas at Austin		
11:45am	PCSI-MoM2-40 Comprehensive Study of Interface Chemistry and Electrical Property of Metal Contacts on TMDs, <i>S. Kim</i> , <i>Joy Roy</i> , <i>X. Wang</i> , <i>R. Wallace</i> , University of Texas at Dallas		
11:50am	PCSI-MoM2-41 Transport Anisotropy in One-dimensional Graphene Superlattice in the High Kronig-Penney Potential Limit, <i>Tianlin Li</i> , <i>H. Chen</i> , <i>K. Wang</i> , <i>Y. Hao</i> , <i>L. Zhang</i> , University of Nebraska - Lincoln; <i>K. Watanabe</i> , <i>T. Taniguchi</i> , National Institute for Materials Science, Japan; <i>X. Hong</i> , University of Nebraska - Lincoln		
11:55am	PCSI-MoM2-42 Terahertz Emission Spectroscopy Revealing Nanoscale Vectorial Photocurrents in Symmetry-Broken Optoelectronic Metasurfaces, <i>J. Pettine</i> , <i>P. Padmanabhan</i> , Los Alamos National Laboratory; <i>L. Gingras</i> , <i>R. Holzwarth</i> , Menlo Systems, Germany; <i>R. Prasankumar</i> , <i>A. Taylor</i> , <i>S. Lin</i> , Los Alamos National Laboratory; Hou-Tong Chen , Los Alamos National Laboratory		
12:00pm			

Monday Afternoon, January 15, 2024

Room Ballroom South		
2:00pm	INVITED: PCSI-MoA1-1 Interface Control of III-Nitride Semiconductors: From High Efficiency Artificial Photosynthesis to Ferroelectric Switching, <i>Zetian Mi</i> , University of Michigan, Ann Arbor	PCSI Session PCSI-MoA1 Materials for Catalysis, Energy Storage, and Energy Harvesting Moderator: Edward Yu , The University of Texas at Austin
2:40pm	PCSI-MoA1-9 UPGRADED: Wafer-Scale Si-Based Metal-Insulator-Semiconductor Photoanodes for Water Oxidation Fabricated Using Thin Film Reactions and Electrodeposition, <i>Shang-Hsuan Wu, S. Lee, Y. Choi, E. Yu</i> , The University of Texas at Austin	
3:00pm	PCSI-MoA1-13 UPGRADED: Field-Assisted Oxidation of a Fe Single Nanoparticle, Nanoscale Observations by Operando Atom Probe, <i>Sten V Lambeets</i> , Pacific Northwest National Laboratory; <i>N. Cardwell, I. Onyango</i> , Washington State University; <i>T. Visart de Bocarmé</i> , Université Libre de Bruxelles, Belgium; <i>J. McEwen</i> , Washington State University; <i>D. Perea</i> , Pacific Northwest National Laboratory	
3:20pm	Coffee Break & Poster Viewing	
4:30pm	INVITED: PCSI-MoA2-31 Crystalline Materials with Anisotropic Conduction Polarities, <i>Joshua Goldberger</i> , The Ohio State University	PCSI Session PCSI-MoA2 Topological Materials & Interfaces I Moderator: Jun Sung Kim , Pohang University of Science and Technology (POSTECH), Republic of Korea
5:10pm	PCSI-MoA2-39 Weyl Semimetals and the Interface: Surface State Transport Probed via Weak Antilocalization in Ultrathin TaAs Films, <i>Ian Leahy, A. Rice, C. Jiang, G. Paul, K. Alberi</i> , National Renewable Energy Laboratory; <i>J. Nelson</i> , National Renewable Energy Laboratory	
5:15pm	PCSI-MoA2-40 Topological Hall Effect in Dirac Semimetal, <i>Saurav Islam, E. Steinebronn</i> , Pennsylvania State University; <i>B. Neupane</i> , University of North Texas; <i>K. Yang</i> , Pennsylvania State University; <i>Y. Wang</i> , University of North Texas; <i>C. Liu</i> , Pennsylvania State University; <i>S. Ghosh</i> , University of Minnesota; <i>K. Mkhoyan</i> , University of Minho, Portugal; <i>J. Chamorro, T. McQueen</i> , Johns Hopkins University; <i>N. Samarth</i> , Pennsylvania State University	
5:20pm	PCSI-MoA2-41 Helical Dislocations in 2D Materials and the Connection to Transport in Topological Insulators, <i>T. Rakib, M. Choi, E. Ertekin</i> , University of Illinois at Urbana-Champaign; <i>P. Pochet</i> , Université Grenoble-Alpes, France; <i>Harley Johnson</i> , University of Illinois at Urbana-Champaign	
5:25pm	PCSI-MoA2-42 Layer-dependent Optical Conductivity of MBE-grown ZrTe ₂ , <i>E. Houser, Frank Peiris</i> , Kenyon College; <i>A. Richardella, M. Stanley, N. Samarth</i> , Pennsylvania State University	
5:30pm	PCSI-MoA2-43 Surface Dependent Doping Efficiency in Te: Cd ₃ As ₂ Thin Films, <i>Anthony Rice, I. Leahy</i> , National Renewable Energy Laboratory; <i>K. Alberi</i> , National Renewable Energy Laboratory	
5:35pm	PCSI-MoA2-44 Investigating the Structural and Electronic Properties of FeSn on LaAlO ₃ (111) Grown by Molecular Beam Epitaxy, <i>Tyler Erickson, S. Upadhyay, A. Shrestha, A. Abbas, H. Hall, D. Ingram, S. Kaya, A. Smith</i> , Ohio University	
5:40pm	PCSI-MoA2-45 Ultra-quantum Limit Magnetotransport in the Topological Pentatellurides, <i>Johanna Palmstrom, C. Ribeiro, C. Mizzi, L. Winter, S. Thomas</i> , Los Alamos National Laboratory; <i>J. Liu, L. Jauregui</i> , University of California Irvine; <i>J. Mutch, Q. Jiang, J. Ayres-Sims, J. Chu</i> , University of Washington; <i>E. Peterson, J. Zhu</i> , Los Alamos National Laboratory	

Monday Evening, January 15, 2024

PCSI Room Ballroom South - Session PCSI-MoE Topological Materials & Interfaces II Moderator: Joshua Goldberger, The Ohio State University	
7:30pm	INVITED: PCSI-MoE-1 Large Magnetotransport Responses and Spintronic Functionalities of Topological van der Waals Ferromagnets, <i>Jun Sung Kim</i> , Pohang University of Science and Technology (POSTECH), Republic of Korea
8:10pm	PCSI-MoE-9 Tuning the Curie Temperature of a 2D Magnet/Topological Insulator Heterostructure to Above Room Temperature by Epitaxial Growth, <i>Wenyi Zhou</i> , A. Bishop, The Ohio State University; <i>X. Zhang</i> , Cornell University; <i>K. Robinson</i> , <i>I. Lyalin</i> , <i>Z. Li</i> , <i>R. Bailey-Crandell</i> , The Ohio State University; <i>T. Cham</i> , Cornell University; <i>S. Cheng</i> , The Ohio State University; <i>Y. Luo</i> , University of Southern California; <i>D. Ralph</i> , <i>D. Muller</i> , Cornell University; <i>R. Kawakami</i> , The Ohio State University
8:15pm	PCSI-MoE-10 Kagome Antiferromagnetic Mn ₃ GaN grown on MgO(001) using Molecular Beam Epitaxy, <i>Ali Abbas</i> , A. Smith, A. Shrestha, S. Upadhyay, T. Erickson, Ohio University; <i>K. Sun</i> , University of Michigan; <i>D. Ingram</i> , Ohio University
8:20pm	PCSI-MoE-11 Investigation of Smooth Epitaxial Growth of Mn ₃ Sn Films on C-Plane GaN Using Molecular Beam Epitaxy, <i>Sneha Upadhyay</i> , <i>H. Hall</i> , <i>C. D'Mello</i> , Ohio University; <i>J. Hernandez</i> , Universidad Autonoma de Puebla, Mexico; <i>T. Erickson</i> , Ohio University; <i>K. Sun</i> , The University of Michigan, Ann Arbor; <i>G. Cocolletzi</i> , Universidad Autonoma de Puebla, Mexico; <i>N. Takeuchi</i> , Universidad Nacional Autónoma de México; <i>A. Smith</i> , Ohio University
8:25pm	PCSI-MoE-12 Symmetry Constraints on Topological Invariants, <i>Jing Zhang</i> , Imperial College London, UK
8:30pm	PCSI-MoE-13 UPGRADED: Epitaxial Kagome Thin Films as a Platform for Topological Flat Bands and Dirac Cones, <i>S. Cheng</i> , <i>M. Nrisimhamurty</i> , Ohio State University; <i>T. Zhou</i> , University at Buffalo; <i>N. Bagues</i> , <i>W. Zhou</i> , <i>A. Bishop</i> , <i>I. Lyalin</i> , Ohio State University; <i>C. Jozwiak</i> , <i>A. Bostwick</i> , <i>E. Rotenberg</i> , Advanced Light Source, Lawrence Berkeley National Laboratory; <i>D. McComb</i> , Ohio State University; <i>I. Zutic</i> , University at Buffalo; <i>Roland Kawakami</i> , Ohio State University

Tuesday Morning, January 16, 2024

Room Ballroom South		
8:30am	INVITED: PCSI-TuM1-1 Efficient Control of 2D Magnets, <i>Cheng Gong</i> , University of Maryland, College Park	PCSI Session PCSI-TuM1 Magnetic Materials (2D, Monolayers, & Heterostructures) Moderator: Xiao-Xiao Zhang , University of Florida
9:10am	INVITED: PCSI-TuM1-9 Surface-Bulk Difference in van der Waals Magnets, <i>Liuyan Zhao</i> , University of Michigan, Ann Arbor	
9:50am	PCSI-TuM1-17 Surface Investigation of Hexagonal Non-Collinear $\text{D}_{019}\text{-Mn}_3\text{Ga}$ Thin Film on $\text{GaN}(0001)$ Substrate, <i>Ashok Shrestha</i> , A. Abbas, D. Ingram, A. Smith, Ohio University	
9:55am	PCSI-TuM1-18 Enhancement of Microwave to Optical Spin-Based Quantum Transduction via a Magnon Mode, <i>Tharnier O. Puel</i> , Department of Physics and Astronomy, University of Iowa; A. T. Turflinger, S. P. Horvath, J. D. Thompson, Department of Electrical Engineering, Princeton University; M. E. Flatté, Department of Physics and Astronomy, University of Iowa, Department of Applied Physics, Eindhoven University of Technology, Eindhoven, The Netherlands	
10:00am	PCSI-TuM1-19 Magnetic Modulation and Large Magnetoresistance in Cr_5Te_8 , <i>M. Vaninger</i> , S. Kelley, University of Missouri; F. Ye, Oak Ridge National Laboratory; X. Zhang, Nanjing University, China; T. Heitmann, University of Missouri; A. Mazza, Los Alamos National Laboratory; Y. Hor, A. Sarikhani, Missouri S&T; G. Bian, <i>Paul Miceli</i> , University of Missouri	
10:05am	Coffee Break & Poster Viewing	
11:00am	INVITED: PCSI-TuM2-31 Synergy of 3D and 2D Perovskites for Durable and Efficient Solar Cells, <i>Aditya D. Mohite</i> , Rice University	PCSI Session PCSI-TuM2 Organic and Hybrid Semiconductor Materials & Interfaces Moderator: Wanyi Nie , Los Alamos National Laboratory
11:40am	PCSI-TuM2-39 Development of Surface Chemistry on-Top of Organic Semiconductor Thin Films to Improve Optoelectronic Devices, <i>Jacob W. Ciszek</i> , Loyola University Chicago	
11:45am	PCSI-TuM2-40 Characterizing Nanopattern Formation of Polymer Thin Films on Silicon Substrates with Ion Beam Sputtering, <i>Jocelyn Zhang</i> , Boston University, Del Norte High School; G. Pettis, Oregon State University, Boston University; B. Jiang, Boston University, Turkey; N. Baker, Boston University; E. Guney, Sabanci University, Turkey; G. Ince, Sabanci University IICEC, Turkey; K. Ludwig, Jr., Boston University	
11:50am	PCSI-TuM2-41 Avidin-Biotin Technology in Graphene Based Biosensor for the Detection of Different Biomolecules, <i>Md Zakir Hossain</i> , Gunma University Initiative for Advanced Research (GIAR), Japan	
11:55am	PCSI-TuM2-42 Functionalizing Organic Semiconductors with Dipole Monolayers, <i>Matthew Williams</i> , Loyola University Chicago	

Tuesday Evening, January 16, 2024

PCSI

Room Ballroom South - Session PCSI-TuE

Point Defects for Quantum Information Applications

Moderator: Roland Kawakami, The Ohio State University

7:00pm	INVITED: PCSI-TuE-1 Rare Earth Doped Oxide Thin Films on Silicon for Chip Scale Quantum Emitters and Memories, <i>Supratik Guha</i> , D. Awschalom, University of Chicago, Argonne National Laboratory; C. Ji, G. Grant, S. Seth, I. Masiulionis, University of Chicago; A. Dibos, J. Zjang, Argonne National Laboratory; S. Chattaraj, University of Chicago; M. Singh, University of Chicago, memQ; J. Wen, Argonne National Laboratory	
7:40pm	INVITED: PCSI-TuE-9 Erbium sites in Silicon for Quantum Information Processing, <i>Sven Rogge</i> , University of New South Wales, Australia	

Wednesday Morning, January 17, 2024

Room Ballroom South		
8:30am	INVITED: PCSI-WeM1-1 Emergent Phenomena at Ferroelectric/van der Waals Heterointerfaces, <i>Xia Hong</i> , University of Nebraska - Lincoln	PCSI Session PCSI-WeM1 Ferroelectric & Neuromorphic Computing Materials Moderator: Alec Talin , Sandia National Laboratories
9:10am	PCSI-WeM1-9 Impact of High-Power Impulse Magnetron Sputtering Pulse Width on the Nucleation, Crystallization, Microstructure, and Ferroelectric Properties of Hafnium Oxide Thin Films, <i>Samantha Jaszewski</i> , Sandia National Laboratories	
9:15am	PCSI-WeM1-10 Fabrication and Gamma Radiation Effects on Endurance of Ferroelectric Hafnium Zirconium Oxide Capacitors, <i>M. David Henry</i> , Sandia National Laboratories; <i>M. Lenox</i> , University of Virginia; <i>A. Hillsman</i> , North Carolina State University; <i>S. Jaszewski</i> , <i>G. Esteves</i> , Sandia National Laboratories, USA; <i>J. Jones</i> , North Carolina State University; <i>J. Ihlefeld</i> , University of Virginia	
9:20am	INVITED: PCSI-WeM1-11 Design of Memristive Devices Towards Neuromorphic Computing, <i>Aiping Chen</i> , Los Alamos National Laboratory	
10:00am	PCSI-WeM1-19 Understanding Phase Change Chalcogenides in Reconfigurable Metamaterials: Material Science and Fabrication towards Novel Devices for optical Devices and Neuromorphic Computing, <i>Adrian A. Podpirka</i> , Johns Hopkins University Applied Physics Laboratory; <i>G. Hunt</i> , <i>R. Bruce</i> , <i>D. Shrekenhamer</i> , John Hopkins University Applied Physics Laboratory; <i>C. Gutzsell</i> , John Hopkins University Applied Physics	
10:05am	PCSI-WeM1-20 Neuromorphic Memristors with TiO ₂ and a-IGZO Bilayer Structure, <i>Jae-Yun Lee</i> , College of Electrical and Computer Engineering, Chungbuk National University, South Korea; <i>H. Zhao</i> , <i>X. Wang</i> , <i>S. Shi</i> , College of Electrical and Computer Engineering, Chungbuk National University, South Korea, China; <i>B. Lee</i> , <i>S. Kim</i> , College of Electrical and Computer Engineering, Chungbuk National University, South Korea	
10:10am	PCSI-WeM1-21 Origin of Large Electro-Optic Response in Ferroelectrics, <i>Alex Demkov</i> , <i>I. Kim</i> , <i>T. Paoletta</i> , <i>S. Apte</i> , The University of Texas at Austin	
10:15am	Coffee Break & Poster Viewing	
11:00am	INVITED: PCSI-WeM2-31 Direct Visualization of Electronic Transport in a Quantum Anomalous Hall Insulator, <i>Katja Nowack</i> , Cornell University	
11:40am	PCSI-WeM2-39 Magneto-Optical Detection of the Orbital Hall Effect in Chromium, <i>Igor Lyalin</i> , <i>R. Kawakami</i> , The Ohio State University	
11:45am	PCSI-WeM2-40 Temperature Dependent Study of Na _x Si ₁₃₆ Type II Clathrate Spin Dynamics, <i>Joseph Briggs</i> , <i>Y. Liu</i> , <i>S. Saiter</i> , <i>A. Faricy</i> , <i>C. Burns</i> , <i>C. Taylor</i> , <i>M. Singh</i> , <i>R. Collins</i> , <i>C. Koh</i> , Colorado School of Mines	
11:50am	PCSI-WeM2-41 Spin-orbit coupling in InGaAs random and digital alloy quantum wells, <i>Jason Dong</i> , University of California at Santa Barbara; <i>Y. Gul</i> , University College London, UK; <i>A. Engel</i> , <i>C. Dempsey</i> , University of California at Santa Barbara; <i>T. van Schijndel</i> , University of California Santa Barbara; <i>M. Pepper</i> , University College London, UK; <i>C. Palmstrøm</i> , University of California at Santa Barbara	
11:55am	PCSI-WeM2-42 Screw Dislocations-Based Spin Valves, <i>Finley Haines</i> , <i>E. Renteria</i> , <i>M. Debasu</i> , <i>F. Cavallo</i> , University of New Mexico	

Wednesday Afternoon, January 17, 2024

Room Ballroom South		
2:00pm	INVITED: PCSI-WeA1-1 Imaging the Properties of Atoms and Fields at the Picometer Scale inside Materials and Devices, <i>David Muller</i> , Cornell University	PCSI Session PCSI-WeA1 Characterization of Interfaces and Devices Moderator: Paul M. Koenraad , Eindhoven University of Technology, Netherlands
2:40pm	PCSI-WeA1-9 Structural and Electrical Properties of Superconducting Niobium, Tantalum, and Niobium Nucleated Tantalum Thin Films Grown by Dc Magnetron Sputtering on C-Plane Sapphire, <i>Anthony McFadden</i> , R. Simmonds, NIST-Boulder	
2:45pm	PCSI-WeA1-10 Cryogenic Growth and <i>in-Situ</i> Fabrication of Superconducting Tantalum Devices, <i>Teun van Schijndel</i> , UC Santa Barbara; <i>A. McFadden</i> , NIST-Boulder; <i>A. Engel</i> , <i>J. Dong</i> , <i>S. Chatterjee</i> , UC Santa Barbara; <i>R. Simmonds</i> , NIST-Boulder; <i>C. Palmstrøm</i> , UC Santa Barbara	
2:50pm	PCSI-WeA1-11 Multi-Technique Characterization of GaN-Based Devices: A Powerful Tool to Probe the in-Depth Chemistry, <i>Kirène Gaffar</i> , CNRS, Université Paris-Sud, France; <i>S. Béchu</i> , <i>G. Patriarche</i> , <i>M. Bouttemy</i> , CNRS, France	
2:55pm	PCSI-WeA1-12 Mo-SiN _x Granular Metal High-pass Filters, <i>Laura Biedermann</i> , <i>M. McGarry</i> , <i>S. Gilbert</i> , <i>W. Bachman</i> , <i>M. Meyerson</i> , <i>L. Yates</i> , <i>P. Sharma</i> , <i>J. Flicker</i> , <i>P. Kotula</i> , <i>M. Siegal</i> , Sandia National Laboratories	
3:00pm	PCSI-WeA1-13 Restructuring Cracks in Rutile TiO ₂ with Radiolysis-Driven Rolling of Octahedral Units, <i>Silu Guo</i> , <i>H. Yun</i> , <i>S. Nair</i> , <i>B. Jalan</i> , <i>K. Mkhoyan</i> , University of Minnesota, USA	
3:05pm	PCSI-WeA1-14 UPGRADED: Growth and Angle-Resolved Photoemission of Strain- and Thickness- Tuned Epitaxial α -Sn Thin Films, <i>Aaron Engel</i> , <i>H. Inbar</i> , University of California, Santa Barbara; <i>P. Corbae</i> , <i>C. Dempsey</i> , <i>S. Nishihaya</i> , <i>Y. Chang</i> , University of California, Santa Barbara; <i>A. Fedorov</i> , Advanced Light Source, Lawrence Berkeley National Laboratory; <i>M. Hashimoto</i> , <i>D. Lu</i> , SLAC National Accelerator Laboratory; <i>C. Palmstrøm</i> , University of California, Santa Barbara	
3:25pm	PCSI-WeA1-18 Characterization of Buffer Layers for Remote Plasma-Enhanced Chemical Vapor Deposition of Germanium-Tin Epitaxial Layers, <i>Stefan Zollner</i> , <i>C. Armenta</i> , New Mexico State University; <i>B. Rogers</i> , Vanderbilt University; <i>G. Grzybowski</i> , <i>B. Claffin</i> , Air Force Research Laboratory	
3:30pm	PCSI-WeA1-19 Near Zero-Field Magnetoresistance and Defects in GaN pn Junctions, <i>M. Elko</i> , <i>A. Higgins</i> , <i>D. Hassenmayer</i> , <i>Patrick Lenahan</i> , Pennsylvania State University; <i>M. Flatte</i> , <i>D. Fehr</i> , University of Iowa; <i>T.D. Larsen</i> , <i>M.D. Craven</i> , NexGen Power Systems	
3:35pm	Coffee Break & Poster Viewing	
4:30pm	INVITED: PCSI-WeA2-31 Heteroepitaxy of PbSe-SnSe Semiconductors on GaAs for Infrared Optoelectronics, <i>Kunal Mukherjee</i> , Stanford University	PCSI Session PCSI-WeA2 Semiconductor Heterostructures (Growth Nanostructures & Interfaces) II Moderator: Jason Kawasaki , University of Wisconsin - Madison
5:10pm	PCSI-WeA2-39 Investigation of Localized Electric Fields of InAs/GaAs Quantum Dot Interfaces, <i>T.I. Kang</i> , <i>Jong Su Kim</i> , Department of Physics, Yeungnam University; <i>S. Lee</i> , Division of Convergence Technology, Korea Research Institute of Standards and Science	
5:15pm	PCSI-WeA2-40 X-STM Study of Interlayer Effects on InAs Quantum Dots in InP, <i>Edoardo Guido Banfi</i> , Eindhoven University of Technology, Netherlands; <i>E. Sala</i> , Sheffield University, UK; <i>R. Gajjala</i> , Eindhoven University of Technology, Netherlands; <i>J. Heffernan</i> , Sheffield University, UK; <i>P. Koenraad</i> , Eindhoven University of Technology, Netherlands	
5:20pm	PCSI-WeA2-41 UPGRADED: Atomic Scale Analysis of N Dopants in InAs, <i>T. Verstijnen</i> , <i>D. Tjeertes</i> , <i>E. Banfi</i> , Eindhoven University of Technology, Netherlands; <i>Q. Zhuang</i> , Lancaster University, UK; <i>Paul Koenraad</i> , Eindhoven University of Technology, Netherlands	
5:40pm	PCSI-WeA2-45 Direct Wafer Bonding of GaN on AlN Through the Optimization of Chemical Mechanical Polishing, <i>Kaicheng Pan</i> , <i>K. Huynh</i> , <i>M. Li</i> , <i>Y. Ge</i> , <i>T. Fisher</i> , <i>Y. Hu</i> , <i>M. Goorsky</i> , UCLA	
5:45pm	PCSI-WeA2-46 Strategies for Analyzing Non-Common-Atom Heterovalent Interfaces: The Case of CdTe-on-InSb, <i>Esperanza Luna</i> , <i>A. Trampert</i> , Paul-Drude-Institut für Festkörperelektronik Leibniz-Institut im Forschungsverbund Berlin, Germany; <i>J. Lu</i> , <i>T. Aoki</i> , <i>Y. Zhang</i> , <i>M. McCartney</i> , <i>D. Smith</i> , Arizona State University	
5:50pm	PCSI-WeA2-47 Multi-Material Deposition for Spatial Atomic Layer Deposition Process, <i>Atilla Varga</i> , <i>M. Carnoy</i> , <i>M. Plakhotnyuk</i> , <i>I. Kundrata</i> , ATLANT 3D, Denmark; <i>J. Bachmann</i> , Friedrich-Alexander-University Erlangen-Nürnberg (FAU), Germany	

Thursday Morning, January 18, 2024

Room Ballroom South		
8:30am	INVITED: PCSI-ThM1-1 Surface Transfer - Modulation Doping at a Diamond-Dielectric Interface, <i>Robert Nemanich</i> , Arizona State University	PCSI Session PCSI-ThM1 Wide Bandgap Materials Moderator: Christopher Palmstrøm , University of California, Santa Barbara
9:10am	INVITED: PCSI-ThM1-9 Operation-Induced Short-Term Degradation Mechanisms of 275-Nm-Band AlGaIn-Based Deep-Ultraviolet Light-Emitting Diodes Fabricated on a Sapphire Substrate, <i>Shigefusa Chichibu</i> , Tohoku University, Japan; <i>K. Okuno, M. Oya, Y. Saito, H. Ishiguro</i> , Toyoda Gosei Co. Ltd., Japan; <i>T. Takeuchi</i> , Meijo University, Japan; <i>K. Shima</i> , Tohoku University, Japan	
9:50am	PCSI-ThM1-17 Impact of Interfacial Defects and Lattice Strain on NbN _x Films for Integration with Wide Bandgap Semiconductors, <i>Annaliese Drechsler</i> , University of Maryland College Park; <i>P. Shea</i> , Northrop Grumman; <i>A. Christou</i> , University of Maryland College Park	
9:55am	PCSI-ThM1-18 Impact of Unintentional Boron Supply on Sapphire Nitridation Process for GaN Growth by Rf-MBE, <i>Tohru Honda</i> , <i>K. Yajima</i> , <i>T. Yayama</i> , <i>T. Onuma</i> , <i>T. Yamaguchi</i> , Kogakuin University, Japan	
10:00am	PCSI-ThM1-19 Photoluminescence Maps of Surface Defects in β-Ga ₂ O ₃ , <i>Matthew McCluskey</i> , Washington State University; <i>J. Huso</i> , Klar Scientific; <i>C. Remple, J. McCloy</i> , Washington State University; <i>S. Rebollo, S. Krishnamoorthy, J. Speck</i> , University of California at Santa Barbara	
10:05am	PCSI-ThM1-20 UPGRADED: Epitaxial Growth and Properties of Wide Bandgap P-Type NiGa ₂ O ₄ on β-Ga ₂ O ₃ for High Voltage P-N Heterojunctions with Superior Performance at Elevated Temperatures, <i>Kingsley Egbo</i> , <i>B. Tellekamp</i> , <i>W. Callahan</i> , <i>A. Zakutayev</i> , National Renewable Energy Laboratory	
10:25am	PCSI-ThM1-24 Quantum Oscillations in GaN/AlN 2D Hole Gas and Extraction of Light Hole Effective Mass, <i>Chuan Chang</i> , <i>J. Dill</i> , <i>Z. Zhang</i> , Cornell University; <i>S. Crooker</i> , <i>O. Valenzuela</i> , <i>R. McDonald</i> , Los Alamos National Laboratory; <i>D. Jena</i> , <i>G. Xing</i> , Cornell University	
10:30am	Coffee Break & Poster Viewing	
11:00am	PCSI-ThM2-31 UPGRADED: Reduced Metal Contact Resistances for Moire MoS ₂ Interfaces, <i>John Robertson</i> , Cambridge University, UK	PCSI Session PCSI-ThM2 2D Materials and Graphene II Moderator: Scott Crooker , Los Alamos National Laboratory
11:20am	PCSI-ThM2-35 UPGRADED: A Generalized and Modular Approach to Tunnel-Junction Spectroscopy for Quantum Systems, <i>M. Kavand</i> , <i>Z. Phillips</i> , <i>M. Hamilton</i> , <i>E. Perez-Hoyos</i> , The Ohio State University; <i>D. Freedman</i> , Massachusetts Institute of Technology; <i>M. Flatté</i> , University of Iowa; <i>J. Gupta</i> , <i>Ezekiel Johnston-Halperin</i> , The Ohio	

Bold page numbers indicate presenter

— A —

Abbas, A.: PCSI-MoA2-44, 7; PCSI-MoE-10, **8**;
PCSI-TuM1-17, 9
Ahmed, A.: PCSI-MoM2-42, 5
Alberi, K.: PCSI-MoA2-39, 7; PCSI-MoA2-43, 7
Albrecht, M.: PCSI-MoM1-9, 4
Aoki, T.: PCSI-WeA2-46, 14
Apte, S.: PCSI-WeM1-21, 11
Ariando, A.: PCSI-SuA-20, 2
Awschalom, D.: PCSI-TuE-1, 10
Ayres-Sims, J.: PCSI-MoA2-45, 7
— B —
Bachman, W.: PCSI-WeA1-12, 13
Bachmann, J.: PCSI-WeA2-47, 14
Bagues, N.: PCSI-MoE-13, 8
Bailey-Crandell, R.: PCSI-MoE-9, 8
Baker, N.: PCSI-TuM2-40, 9
Baldini, E.: PCSI-SuE-1, **3**
Banfi, E.: PCSI-WeA2-40, **14**; PCSI-WeA2-41,
14
Bechu, S.: PCSI-SuE-9, **3**
Béchu, S.: PCSI-WeA1-11, 13
Beechem, T.: PCSI-SuE-10, 3
Bian, G.: PCSI-TuM1-19, 9
Biedermann, L.: PCSI-WeA1-12, **13**
Bierwagen, O.: PCSI-MoM1-9, **4**; PCSI-SuA-17,
2
Bishop, A.: PCSI-MoE-13, 8; PCSI-MoE-9, 8
Boehm, A.: PCSI-SuE-10, 3
Bostwick, A.: PCSI-MoE-13, 8
Bouttemy, M.: PCSI-WeA1-11, 13
Brand, O.: PCSI-SuA-18, 2
Brener, I.: PCSI-SuE-10, 3
Briggs, J.: PCSI-WeM2-40, **12**
Bruce, R.: PCSI-WeM1-19, 11
Burns, C.: PCSI-WeM2-40, 12
— C —
Cabanillas, A.: PCSI-MoM2-42, 5
Callahan, W.: PCSI-ThM1-20, 15
Cardwell, N.: PCSI-MoA1-13, 6
Carnoy, M.: PCSI-WeA2-47, 14
Cavallo, F.: PCSI-WeM2-42, 12
Chakravarty, A.: PCSI-MoM2-42, 5
Chakraverty, S.: PCSI-SuA-20, 2
Cham, T.: PCSI-MoE-9, 8
Chamorro, J.: PCSI-MoA2-40, 7
Chan, M.: PCSI-SuA-20, 2
Chang, C.: PCSI-ThM1-24, **11**
Chang, Y.: PCSI-WeA1-14, 13
Chattaraj, S.: PCSI-TuE-1, 10
Chatterjee, S.: PCSI-WeA1-10, 13
Chen, A.: PCSI-WeM1-11, **11**
Chen, C.: PCSI-MoM2-42, 5
Chen, H.: PCSI-MoM2-41, 5; PCSI-MoM2-43,
5
Cheng, S.: PCSI-MoE-13, 8; PCSI-MoE-9, 8
Chichibu, S.: PCSI-ThM1-9, **15**
Choi, M.: PCSI-MoA2-41, 7
Choi, Y.: PCSI-MoA1-9, 6
Christou, A.: PCSI-ThM1-17, 15
Chu, J.: PCSI-MoA2-45, 7
Ciszek, J.: PCSI-TuM2-39, **9**
Cocolezzi, G.: PCSI-MoE-11, 8
Collins, R.: PCSI-WeM2-40, 12
Corbae, P.: PCSI-WeA1-14, 13
Costine, A.: PCSI-MoM1-17, 4
— D —
D. Thompson, J.: PCSI-TuM1-18, 9
Debasu, M.: PCSI-WeM2-42, 12
Demkov, A.: PCSI-MoM1-14, 4; PCSI-WeM1-
21, **11**

Dempsey, C.: PCSI-WeA1-14, 13; PCSI-WeM2-
41, 12
Dibos, A.: PCSI-TuE-1, 10
D'Mello, C.: PCSI-MoE-11, 8
Doiron, C.: PCSI-SuE-10, 3
Dong, J.: PCSI-WeA1-10, 13; PCSI-WeM2-41,
12
Drechsler, A.: PCSI-ThM1-17, **15**
Dumen, M.: PCSI-SuA-20, 2
— E —
E. Flatté, M.: PCSI-TuM1-18, 9
Egbo, K.: PCSI-ThM1-20, **15**
Engel, A.: PCSI-WeA1-10, 13; PCSI-WeA1-14,
13; PCSI-WeM2-41, 12
Erickson, T.: PCSI-MoA2-44, **7**; PCSI-MoE-10,
8; PCSI-MoE-11, 8
Ertekin, E.: PCSI-MoA2-41, 7
Esteves, G.: PCSI-WeM1-10, 11
— F —
Fairley, N.: PCSI-SuE-9, 3
Fang, B.: PCSI-MoM2-39, 5
Faricy, A.: PCSI-WeM2-40, 12
Fedorov, A.: PCSI-WeA1-14, 13
Fernandez-Mulligan, S.: PCSI-SuE-11, 3
Fisher, T.: PCSI-WeA2-45, 14
Flatté, M.: PCSI-ThM2-35, 15
Flicker, J.: PCSI-WeA1-12, 13
Fonseca Vega, J.: PCSI-SuE-10, 3
Fowlie, J.: PCSI-SuA-9, 2
Freedman, D.: PCSI-ThM2-35, 15
Fu, Y.: PCSI-MoM2-42, 5
— G —
Gaffar, K.: PCSI-WeA1-11, **13**
Gagliardi, A.: PCSI-SuE-9, 3
Gai, Z.: PCSI-MoM1-17, 4
Gajjela, R.: PCSI-WeA2-40, 14
Galazka, Z.: PCSI-SuA-18, 2
Ge, Y.: PCSI-WeA2-45, 14
Gennaro, S.: PCSI-SuE-10, 3
Ghosh, S.: PCSI-MoA2-40, 7
Gilbert, S.: PCSI-WeA1-12, 13
Gillen, R.: PCSI-SuA-18, 2
Gingras, L.: PCSI-MoM2-43, 5
Goldberger, J.: PCSI-MoA2-31, **6**
Gong, C.: PCSI-TuM1-1, **9**
Goorsky, M.: PCSI-WeA2-45, 14
Grant, G.: PCSI-TuE-1, 10
Guan, Y.: PCSI-SuE-11, 3
Guha, S.: PCSI-TuE-1, **10**
Gul, Y.: PCSI-WeM2-41, 12
Guney, E.: PCSI-TuM2-40, 9
Guo, S.: PCSI-WeA1-13, **13**
Gupta, J.: PCSI-ThM2-35, 15
Gutgsell, C.: PCSI-WeM1-19, 11
— H —
Haines, F.: PCSI-WeM2-42, **12**
Hall, H.: PCSI-MoA2-44, 7; PCSI-MoE-11, 8
Hamilton, M.: PCSI-ThM2-35, 15
Han, D.: PCSI-MoA1-19, 6
Hao, Y.: PCSI-MoM2-41, 5
Harrison, N.: PCSI-SuA-20, 2
Hartl, A.: PCSI-MoM1-9, 4
Hashimoto, M.: PCSI-WeA1-14, 13
Heffernan, J.: PCSI-WeA2-40, 14
Heitmann, T.: PCSI-TuM1-19, 9
Henry, M.: PCSI-WeM1-10, **11**
Hernandez, J.: PCSI-MoE-11, 8
Hillsman, A.: PCSI-WeM1-10, 11
Hoffmann, G.: PCSI-MoM1-9, 4
Holzwarth, R.: PCSI-MoM2-43, 5
HONDA, T.: PCSI-ThM1-18, **15**
Hong, X.: PCSI-MoM2-41, 5; PCSI-WeM1-1, **11**

Hor, Y.: PCSI-TuM1-19, 9
Hossain, M.: PCSI-TuM2-41, **9**
Houser, E.: PCSI-MoA2-42, 7
Hu, Y.: PCSI-WeA2-45, 14
Huang, K.: PCSI-MoM1-15, **4**; PCSI-MoM1-16,
4
Huang, X.: PCSI-MoM1-16, **4**
Hui, S.: PCSI-SuA-19, **2**
Hunt, G.: PCSI-WeM1-19, 11
Huso, J.: PCSI-ThM1-19, 15
Huynh, K.: PCSI-WeA2-45, 14
— I —
Ihlefeld, J.: PCSI-WeM1-10, 11
Inbar, H.: PCSI-WeA1-14, 13
Ince, G.: PCSI-TuM2-40, 9
Incorvia, J.: PCSI-MoM2-39, 5
Ingram, D.: PCSI-MoA2-44, 7; PCSI-MoE-10, 8;
PCSI-TuM1-17, 9
Ishiguro, H.: PCSI-ThM1-9, 15
Islam, S.: PCSI-MoA2-40, **7**
— J —
Jalan, B.: PCSI-WeA1-13, 13
Jaszewski, S.: PCSI-WeM1-10, 11; PCSI-
WeM1-9, **11**
Jauregui, L.: PCSI-MoA2-45, 7
Ji, C.: PCSI-TuE-1, 10
Jiang, B.: PCSI-TuM2-40, 9
Jiang, C.: PCSI-MoA2-39, 7
Jiang, Q.: PCSI-MoA2-45, 7
Jin, H.: PCSI-MoM1-14, **4**
Johnson, H.: PCSI-MoA2-41, **7**
Johnston-Halperin, E.: PCSI-ThM2-35, **15**
Jones, J.: PCSI-WeM1-10, 11
Jozwiak, C.: PCSI-MoE-13, 8
— K —
Kang, T.: PCSI-WeA2-39, **14**
Kavand, M.: PCSI-ThM2-35, 15
Kawakami, R.: PCSI-MoE-13, **8**; PCSI-MoE-9, 8;
PCSI-WeM2-39, 12
Kawasaki, J.: PCSI-MoM1-1, **4**
Kaya, S.: PCSI-MoA2-44, 7
Kelley, S.: PCSI-TuM1-19, 9
Kim, A.: PCSI-SuE-10, 3
Kim, I.: PCSI-WeM1-21, 11
Kim, J.: PCSI-MoE-1, **8**
KIM, J.: PCSI-WeA2-39, 14
Kim, S.: PCSI-MoM2-40, 5; PCSI-WeM1-20, 11
Koenraad, P.: PCSI-WeA2-40, 14; PCSI-WeA2-
41, **14**
Koh, C.: PCSI-WeM2-40, 12
Kotula, P.: PCSI-WeA1-12, 13
Krishnamoorthy, S.: PCSI-ThM1-19, 15
Krzman, M.: PCSI-MoA1-19, 6
Kuljanishvili, I.: PCSI-MoM1-13, **4**
Kundrata, I.: PCSI-WeA2-47, 14
— L —
Lambeets, S.: PCSI-MoA1-13, **6**
Leahy, I.: PCSI-MoA2-39, **7**; PCSI-MoA2-43, 7
Lee, B.: PCSI-WeM1-20, 11
Lee, D.: PCSI-MoA1-18, 6
Lee, H.: PCSI-MoA1-18, 6
Lee, J.: PCSI-WeM1-20, **11**
Lee, S.: PCSI-MoA1-9, 6; PCSI-SuE-11, 3; PCSI-
WeA2-39, 14
Lee, W.: PCSI-SuE-11, 3
Leighton, C.: PCSI-SuA-1, **2**
Lenahan, P.: PCSI-WeA1-19, **10**
Lenox, M.: PCSI-WeM1-10, 11
Li, M.: PCSI-WeA2-45, 14
Li, T.: PCSI-MoM2-41, **5**
Li, X.: PCSI-MoM2-39, 5
Li, Z.: PCSI-MoE-9, 8

Author Index

- Lin, S.: PCSI-MoM2-43, 5
Liu, C.: PCSI-MoA2-40, 7; PCSI-SuE-11, 3
Liu, J.: PCSI-MoA2-45, 7
Liu, Y.: PCSI-WeM2-40, 12
Lu, D.: PCSI-WeA1-14, 13
Lu, J.: PCSI-WeA2-46, 14
Ludwig, Jr., K.: PCSI-TuM2-40, 9
Luna, E.: PCSI-WeA2-46, **14**
Luo, Y.: PCSI-MoE-9, 8
Lyalin, I.: PCSI-MoE-13, 8; PCSI-MoE-9, 8;
PCSI-WeM2-39, **12**
— **M** —
Mao, Z.: PCSI-SuE-11, 3
Masilionis, I.: PCSI-TuE-1, 10
Mazza, A.: PCSI-TuM1-19, 9
McCartney, M.: PCSI-WeA2-46, 14
McCloy, J.: PCSI-ThM1-19, 15
McCluskey, M.: PCSI-ThM1-19, **15**
McComb, D.: PCSI-MoE-13, 8
McEwen, J.: PCSI-MoA1-13, 6
McFadden, A.: PCSI-WeA1-10, 13; PCSI-
WeA1-9, **13**
McGarry, M.: PCSI-WeA1-12, 13
McQueen, T.: PCSI-MoA2-40, 7
Mei, R.: PCSI-SuE-11, 3
Meyerson, M.: PCSI-WeA1-12, 13
Mi, Z.: PCSI-MoA1-1, **6**
Miceli, P.: PCSI-TuM1-19, **9**
Mizzi, C.: PCSI-MoA2-45, 7
Mkhoyan, K.: PCSI-MoA2-40, 7; PCSI-WeA1-
13, 13
Mohite, A.: PCSI-TuM2-31, **9**
Mukherjee, K.: PCSI-WeA2-31, **13**
Muller, D.: PCSI-MoE-9, 8; PCSI-WeA1-1, **13**
Mutch, J.: PCSI-MoA2-45, 7
— **N** —
Nair, S.: PCSI-WeA1-13, 13
Nelson, J.: PCSI-MoA2-39, 7
Nemanich, R.: PCSI-ThM1-1, **15**
Neupane, B.: PCSI-MoA2-40, 7
Nishihaya, S.: PCSI-WeA1-14, 13
Nowack, K.: PCSI-WeM2-31, **11**
Nrisimhamurty, M.: PCSI-MoE-13, 8
— **O** —
O. Puel, T.: PCSI-TuM1-18, **9**
Ohta, T.: PCSI-SuE-10, **3**
Okuno, K.: PCSI-ThM1-9, 15
ONUMA, T.: PCSI-ThM1-18, 15
Onyango, I.: PCSI-MoA1-13, 6
Oya, M.: PCSI-ThM1-9, 15
— **P** —
P. Horvath, S.: PCSI-TuM1-18, 9
Padmanabhan, P.: PCSI-MoM2-43, 5
Palmstrøm, C.: PCSI-WeA1-10, 13; PCSI-
WeA1-14, 13; PCSI-WeM2-41, 12
Palmstrom, J.: PCSI-MoA2-45, **7**
Pan, K.: PCSI-WeA2-45, **14**
Paoletta, T.: PCSI-WeM1-21, 11
Patriarche, G.: PCSI-WeA1-11, 13
Paul, G.: PCSI-MoA2-39, 7
Peiris, F.: PCSI-MoA2-42, **7**
Pepper, M.: PCSI-WeM2-41, 12
Perea, D.: PCSI-MoA1-13, 6
Perez-Hoyos, E.: PCSI-ThM2-35, 15
Peterson, E.: PCSI-MoA2-45, 7
Pettine, J.: PCSI-MoM2-43, 5
Pettis, G.: PCSI-TuM2-40, 9
Phillips, Z.: PCSI-ThM2-35, 15
Plakhotnyuk, M.: PCSI-WeA2-47, 14
Pochet, P.: PCSI-MoA2-41, 7
Podpirka, A.: PCSI-WeM1-19, **11**
Prasankumar, R.: PCSI-MoM2-43, 5
— **R** —
Rakib, T.: PCSI-MoA2-41, 7
Ralph, D.: PCSI-MoE-9, 8
Ramsteiner, M.: PCSI-SuA-18, 2
Rebollo, S.: PCSI-ThM1-19, 15
Regoutz, A.: PCSI-MoM1-9, 4
Reinke, P.: PCSI-MoM1-17, **4**
Remple, C.: PCSI-ThM1-19, 15
Renteria, E.: PCSI-WeM2-42, 12
Riaz, A.: PCSI-MoM1-9, 4
Ribeiro, C.: PCSI-MoA2-45, 7
Rice, A.: PCSI-MoA2-39, 7; PCSI-MoA2-43, **7**
Richardella, A.: PCSI-MoA2-42, 7
Robertson, J.: PCSI-ThM2-31, **15**
Robinson, J.: PCSI-SuE-10, 3
Robinson, K.: PCSI-MoE-9, 8
Rogge, S.: PCSI-TuE-9, **10**
Rotenberg, E.: PCSI-MoE-13, 8
Roy, J.: PCSI-MoM2-40, **5**
Rubi, K.: PCSI-SuA-20, **2**
— **S** —
Saiter, S.: PCSI-WeM2-40, 12
Saito, Y.: PCSI-ThM1-9, 15
Sala, E.: PCSI-WeA2-40, 14
Samarth, N.: PCSI-MoA2-40, 7; PCSI-MoA2-
42, 7
Sarikhani, A.: PCSI-TuM1-19, 9
Sarma, R.: PCSI-SuE-10, 3
Seth, S.: PCSI-TuE-1, 10
Shahi, S.: PCSI-MoM2-42, 5
Sharma, P.: PCSI-WeA1-12, 13
Shea, P.: PCSI-ThM1-17, 15
Shi, S.: PCSI-WeM1-20, 11
Shima, K.: PCSI-ThM1-9, 15
Shrekenhamer, D.: PCSI-WeM1-19, 11
Shrestha, A.: PCSI-MoA2-44, 7; PCSI-MoE-10,
8; PCSI-TuM1-17, **9**
Siegal, M.: PCSI-WeA1-12, 13
Simmonds, R.: PCSI-WeA1-10, 13; PCSI-
WeA1-9, 13
Sinclair, M.: PCSI-SuE-10, 3
Singh, M.: PCSI-TuE-1, 10; PCSI-WeM2-40, 12
Smith, A.: PCSI-MoA2-44, 7; PCSI-MoE-10, 8;
PCSI-MoE-11, 8; PCSI-TuM1-17, 9
Smith, D.: PCSI-WeA2-46, 14
Spataru, C.: PCSI-SuE-10, 3
Speck, J.: PCSI-ThM1-19, 15
Stanley, M.: PCSI-MoA2-42, 7
Steinebronn, E.: PCSI-MoA2-40, 7
Strocov, V.: PCSI-MoM1-9, 4
Sugar, J.: PCSI-SuE-10, 3
Sun, K.: PCSI-MoE-10, 8; PCSI-MoE-11, 8
— **T** —
T. Turflinger, A.: PCSI-TuM1-18, 9
Takeuchi, N.: PCSI-MoE-11, 8
Takeuchi, T.: PCSI-ThM1-9, 15
Tan, H.: PCSI-SuE-11, 3
Taniguchi, T.: PCSI-MoM2-41, 5
Taylor, A.: PCSI-MoM2-43, 5
Taylor, C.: PCSI-WeM2-40, 12
Tellekamp, B.: PCSI-ThM1-20, 15
Thomas, S.: PCSI-MoA2-45, 7
Thuermer, K.: PCSI-SuE-10, 3
Tjeertes, D.: PCSI-WeA2-41, 14
Tornatzky, H.: PCSI-SuA-18, **2**
Trampert, A.: PCSI-WeA2-46, 14
— **U** —
Upadhyay, S.: PCSI-MoA2-44, 7; PCSI-MoE-10,
8; PCSI-MoE-11, **8**
— **V** —
van Schijndel, T.: PCSI-WeA1-10, **13**; PCSI-
WeM2-41, 12
Vaninger, M.: PCSI-TuM1-19, 9
Varga, A.: PCSI-WeA2-47, **14**
Verstijnen, T.: PCSI-WeA2-41, 14
Visart de Bocarmé, T.: PCSI-MoA1-13, 6
— **W** —
Wagner, M.: PCSI-SuA-18, 2
Wallace, R.: PCSI-MoM2-40, 5
Wang, K.: PCSI-MoM2-41, 5
Wang, X.: PCSI-MoM2-40, 5; PCSI-WeM1-20,
11
Wang, Y.: PCSI-MoA2-40, 7
Watanabe, K.: PCSI-MoM2-41, 5
Wen, J.: PCSI-TuE-1, 10
Williams, M.: PCSI-TuM2-42, **7**
Winter, L.: PCSI-MoA2-45, 7
Wu, F.: PCSI-MoM2-39, **5**
Wu, S.: PCSI-MoA1-9, **6**; PCSI-MoM2-39, 5
— **Y** —
YAJIMA, K.: PCSI-ThM1-18, 15
YAMAGUCHI, T.: PCSI-ThM1-18, 15
Yan, B.: PCSI-SuE-11, 3
Yan, C.: PCSI-SuE-11, 3
Yang, K.: PCSI-MoA2-40, 7
Yang, S.: PCSI-SuE-11, **3**
Yao, F.: PCSI-MoM2-42, 5
Yates, L.: PCSI-WeA1-12, 13
YAYAMA, T.: PCSI-ThM1-18, 15
Ye, F.: PCSI-TuM1-19, 9
Yu, E.: PCSI-MoA1-9, 6; PCSI-MoM2-39, 5
Yun, H.: PCSI-WeA1-13, 13
— **Z** —
Zakutayev, A.: PCSI-ThM1-20, 15
Zeng, S.: PCSI-SuA-20, 2
Zhang, J.: PCSI-MoE-12, **8**; PCSI-TuM2-40, **9**
Zhang, L.: PCSI-MoM2-41, 5
Zhang, X.: PCSI-MoE-9, 8; PCSI-MoM2-31, **4**;
PCSI-TuM1-19, 9
Zhang, Y.: PCSI-WeA2-46, 14
Zhao, H.: PCSI-WeM1-20, 11
Zhao, K.: PCSI-MoA1-17, 6
Zhao, L.: PCSI-TuM1-9, **9**
Zhou, T.: PCSI-MoE-13, 8
Zhou, W.: PCSI-MoE-13, 8; PCSI-MoE-9, **8**
Zhu, J.: PCSI-MoA2-45, 7
Zhuang, Q.: PCSI-WeA2-41, 14
Zjang, J.: PCSI-TuE-1, 10
Zollner, S.: PCSI-WeA1-18, **10**
Zupancic, M.: PCSI-MoM1-9, 4
Zutic, I.: PCSI-MoE-13, 8