

PCSI-52 Program Overview

Room /Time	Ballroom
SuA	PCSI-SuA: Magnetism, Altermagnets, & Spin Phenomena
SuE	PCSI-SuE1: Plenary Session PCSI-SuE2: Quantum Networks & Rare-Earth Emitters
MoM	PCSI-MoM1: Superconducting & Hybrid Qubits PCSI-MoM2: Point Defects & Quantum Emitters
MoA	PCSI-MoA1: Superconductivity in Thin Films & Heterostructures PCSI-MoA2: Oxides I
MoE	PCSI-MoE: High-k Dielectrics & Devices Interfaces
TuM	PCSI-TuM: Oxides II & Energy Materials
TuE	PCSI-TuE: Evening Special Session - Whither Majorana?
WeM	PCSI-WeM1: 2D Materials: Graphene & Beyond PCSI-WeM2: Molecular, Organic and Hybrid Interfaces
WeA	PCSI-WeA1: Topological Thin Films & Heterostructures PCSI1-WeA2: Thermal Transport, Surface Processing & Nanofabrication
ThM	PCSI-ThM: Semiconductor Heterostructures & Epitaxy

Sunday Afternoon, January 17, 2027

PCSI Room Ballroom - Session PCSI-SuA Magnetism, Altermagnets, & Spin Phenomena Moderator: Matthew Brahlek, Oak Ridge National Laboratory		
3:30pm	INVITED: PCSI-SuA-1 Controlling Magnetism in RuO ₂ through Strain and Surface Engineering, Jong Seok Lee , Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea	
4:00pm	PCSI-SuA-7 UPGRADED: Molecular Beam Epitaxy of Hybrid Heterostructures Interfacing an Altermagnet (CrSb) with a 2D Ferromagnet (CrTe ₂) and a Topological Insulator (Sb ₂ Te ₃), Sandra Santhosh (Student) , Kalana Halanayake, Soumyanil Adhikary, Supriya Ghosh, Anthony Richardella, Danielle R. Hickey, K. Andre Mkhoyan, Nitin Samarth, Pennsylvania State University	
4:15pm	PCSI-SuA-10 First- Principles Study of Strain- Controlled Magnetism in MnBi ₂ Se ₄ Heterostructure, Narendra Phulara (Student) , University of Kansas, Nepal	
4:20pm	PCSI-SuA-11 Investigating Magnetocaloric Properties of NdGaO ₃ , Gabriel Ruiz Ruiz (Student) , Los Alamos National Laboratory	
4:25pm	PCSI-SuA-12 High-Efficiency Spin-to-Charge Conversion of Ultra-thin Mn ₃ Al/W Capping Layers on PLD Grown YIG, Manisha Dabla, Sanskriti Kaushik, Pushpendra Kumar , Jawaharlal Nehru University, India; Prashant Kumar , Motilal Nehru College, India; Bijoy K Kuanr , Jawaharlal Nehru University, India	
4:30pm	PCSI-SuA-13 Strain and Defect-Tailored Magnetotransport in Ferrimagnetic Spinel NiCo ₂ O ₄ Thin Films and Freestanding Membranes, Qiuchen Wu, Yuanyuan Zhang, Tianlin Li , Department of Physics and Astronomy & Nebraska Center for Materials & Nanoscience, University of Nebraska-Lincoln; Myung-Geun Han , Condensed Matter Physics and Materials Science Department, Brookhaven National Laboratory; Soo-Yoon Hwang, Yeon-Seo Nam , Condensed Matter Physics and Materials Science Department, Brookhaven National Laboratory; Department of Materials Science and Engineering, Pohang University of Science and Technology (POSTECH); Si-Young Choi , Department of Materials Science and Engineering, Pohang University of Science and Technology (POSTECH), Republic of Korea; Yimei Zhu , Condensed Matter Physics and Materials Science Department, Brookhaven National Laboratory; Xia Hong , Department of Physics and Astronomy & Nebraska Center for Materials & Nanoscience, University of Nebraska-Lincoln	
4:35pm	INVITED: PCSI-SuA-14 Imaging the Harmonic Generation of Magnons, Georgy Fuchs , Cornell University	

Sunday Evening, January 17, 2027

Room Ballroom		
7:30pm	INVITED: PCSI-SuE1-1 Engineering Quantum Systems: From Qubits and Networks to Hybrid Quantum Matter, <i>Tian Zhong</i> , University of Chicago	PCSI Session PCSI-SuE1 Plenary Session Moderator: Christopher Palmstrøm , University of California, Santa Barbara
8:15pm	INVITED: PCSI-SuE2-10 Engineering Erbium-Doped Rare-Earth Oxide Thin Films For Quantum Networks, <i>Jiefei Zhang</i> , Argonne National Laboratory	PCSI Session PCSI-SuE2 Quantum Networks & Rare-Earth Emitters Moderator: Gregory Fuchs , Cornell University
8:45pm	PCSI-SuE2-16 UPGRADED: A Fibre-Coupled Single-Erbium-Ion Source in Silicon Nanophotonics, <i>Sven Rogge</i> , University of New South Wales, Australia	

Monday Morning, January 18, 2027

Room Ballroom		
8:30am	INVITED: PCSI-MoM1-1 Towards Scalable, Available, and Capable Superconducting Qubits, <i>Valla Fatemi</i> , Cornell University	PCSI Session PCSI-MoM1 Superconducting & Hybrid Qubits Moderator: Sue Coppersmith , University of New South Wales, Australia
9:00am	PCSI-MoM1-7 Silicon Fin Based Josephson Junctions: Performance and Interfaces, <i>Roger Romani</i> , Anthony McFadden, NIST-Boulder; <i>Tenu van Schijndel</i> , UC Santa Barbara; <i>Trevyn Larson</i> , Raymond Simmonds, NIST-Boulder; <i>Chris Palmström</i> , UC Santa Barbara	
9:05am	PCSI-MoM1-8 Towards Single-Crystalline Tunnel Barriers on Epitaxial CoSi ₂ /Si for Low Loss Superconducting Circuits, <i>Julian Choi (Student)</i> , <i>Teun van Schijndel</i> , Yu Wu, <i>Chris Palmstrom</i> , UC Santa Barbara	
9:10am	PCSI-MoM1-9 UPGRADED: Cryogenic Deposition and Crystallization of Ultrathin Refractory Superconductors, <i>Teun van Schijndel (Student)</i> , Yu Wu, <i>Julian Choi</i> , <i>Milo Coombs</i> , <i>Jason Dong</i> , UC Santa Barbara; <i>Yilmaz Gul</i> , University College London, UK; <i>Greg Mazur</i> , <i>Christopher Palmstrom</i> , UC Santa Barbara	
9:25am	INVITED: PCSI-MoM1-12 Quantum Oscillations in Semiconductor/Superconductor Hybrid Structures, <i>Greg Mazur</i> , University of California at Santa Barbara	
9:55am	INVITED: PCSI-MoM1-18 Predicting the Structure and Properties of Inorganic Epitaxial Interfaces, <i>Noa Marom</i> , Carnegie Mellon University	
10:25am	Break & Poster Viewing	
11:00am	INVITED: PCSI-MoM2-31 Next-Generation Integrated Quantum Technologies with Thin-Film, Single-Crystal Diamond, <i>Alex High</i> , University of Chicago	PCSI Session PCSI-MoM2 Point Defects & Quantum Emitters Moderator: Sven Rogge , University of New South Wales, Australia
11:30am	PCSI-MoM2-37 UPGRADED: Atomic Defects and Quantum Light Sources in van der Waals α -MoO ₃ , <i>Jeonghan Lee</i> , Seoul National University, Republic of Korea; <i>Haiyuan Wang</i> , Technical University of Denmark; <i>Keun-Yeol Park</i> , Soonsang Huh, Donghan Kim, Mihyang Yu, Changyoung Kim, Seoul National University, Republic of Korea; <i>Kristian Thygesen</i> , Technical University of Denmark; <i>Jieun Lee</i> , Seoul National University, Republic of Korea	
11:45am	PCSI-MoM2-40 UPGRADED: Transition from Single-Photon Emission to Superradiance in Dense WSe ₂ Quantum Emitter Arrays, <i>Frances Camille Wu (Student)</i> , The University of Texas at Austin; <i>Shang-Hsuan Wu</i> , <i>Jadon Zheng</i> , <i>Kenneth Lin</i> , University of Texas at Austin; <i>Bin Fang</i> , The University of Texas at Austin; <i>Suhun Kim</i> , <i>Emanuel Tutuc</i> , <i>Edward Yu</i> , University of Texas at Austin	
12:00pm	PCSI-MoM2-43 Nitrogen-Vacancy-Related States in Ga- and N-Polar GaN by XPS and First-Principles Calculations, <i>Chisato Ota (Student)</i> , <i>Tomoe Yayama</i> , <i>Takeyoshi Onuma</i> , <i>Tomohiro Yamaguchi</i> , Kogakuin University, Japan; <i>Masatomo Sumiya</i> , NIMS (National Institute for Materials Science), Japan; <i>Tohru Honda</i> , Kogakuin University, Japan	

Monday Afternoon, January 18, 2027

Room Ballroom		
2:00pm	INVITED: PCSI-MoA1-1 Thin Film Quantum Matter: Unconventional Conventional Superconductivity and More, <i>Joseph Falson</i> , California Institute of Technology	PCSI Session PCSI-MoA1 Superconductivity in Thin Films & Heterostructures Moderator: Monica Allen , University of California at San Diego
2:30pm	INVITED: PCSI-MoA1-7 Stoichiometric FeTe is a Superconductor, <i>Cui-Zu Chang</i> , The Pennsylvania State University	
3:00pm	PCSI-MoA1-13 Robust Superconductivity against Al Substitution in LiTi ₂ O ₄ Thin Films, <i>Elijah Robinson, Kashi Panday, Gabe Manzanares, Prakash Timsina, Sudhan Koirala, Stefan Zollner, Igor Vasiliev, Ludi Miao</i> , New Mexico State University	
3:05pm	PCSI-MoA1-14 Characterization of Thin Films for Quantum Information Science, <i>Jesus Marquez (Student)</i> , New Mexico State University	
3:10pm	INVITED: PCSI-MoA1-15 Interplay of Ferromagnetism and Superconductivity in Fe–Doped Ferromagnetic Semiconductors, <i>Anh Le Duc, Hirotaka Hara</i> , The university of Tokyo, Japan; <i>Masaaki Tanaka</i> , The University of Tokyo, Japan	
3:40pm	Break & Poster Viewing	
4:30pm	INVITED: PCSI-MoA2-31 Ferroelectric-Control of Magnetotransport in Ruddlesden-Popper Strontium Iridates, <i>Xia Hong</i> , University of Nebraska-Lincoln	PCSI Session PCSI-MoA2 Oxides I Moderator: Jiefei Zhang , Argonne National Laboratory
5:00pm	PCSI-MoA2-37 UPGRADED: Observation of Field-Induced Interface Reactions in HfO ₂ -Based Ferroelectric Devices by HAXPES, <i>Takashi Onaya, Takahiro Nagata, Kazuhito Tsukagoshi, Toshihide Nabatame</i> , National Institute for Materials Science, Japan	
5:15pm	PCSI-MoA2-40 Ferroelectric Control of Metallicity and Magnetism in Ultrathin Sr ₂ IrO ₄ Films, <i>Yuanyuan Zhang, Qiuchen Wu, Yifei Hao, Peace Adegbite, Peter Dowben, Xia Hong</i> , University of Nebraska-Lincoln	

Monday Evening, January 18, 2027

PCSI Room Ballroom - Session PCSI-MoE High-k Dielectrics & Devices Interfaces Moderator: Xia Hong, University of Nebraska - Lincoln		
7:30pm	PCSI-MoE-1 UPGRADED: Time Evolution of Surface Chemical Reactions During Aluminum Oxide Atomic Layer Deposition on InAs, <i>Rainer Timm, Eleni Charitoudi (Student), Nishant Patel</i> , Lund University, Sweden; <i>Rosemary Jones, Esko Kokkonen</i> , Max IV Laboratory, Sweden	
7:45pm	PCSI-MoE-4 Direct Evaluation of SiO ₂ /Al ₂ O ₃ Interface Dipole for Si/SiO ₂ /Al ₂ O ₃ /HfO ₂ Gate Stack Using Operando HAXPES, <i>Masaki Ando (Student)</i> , Meiji University, Japan; <i>Takashi Onaya, Toshihide Nabatame</i> , National Institute for Materials Science (NIMS), Japan; <i>Satoshi Toyoda</i> , Office of Institutional Advancement and Communications, Kyoto University, Japan; <i>Atsushi Ogura</i> , Meiji University, Japan	
7:50pm	PCSI-MoE-5 How to Choose a Gate Dielectric for Rutile GeO ₂ , <i>Xiaoru Zhang (Student)</i> , The University of Texas at Austin; <i>Alexander A. Demkov</i> , University of Texas at Austin	
7:55pm	PCSI-MoE-6 Study of Metallization-Induced Interface Traps and Charge in Al ₂ O ₃ /SiO ₂ /Si MOS Stack Using C–V/G–V Measurements and TCAD Simulations, <i>Swadhin Jena (Student)</i> , <i>Akshay K., Parlapalli Satyam</i> , IIT Bhubaneswar, India	
8:00pm	PCSI-MoE-7 Influence of Ti Adhesion Layer and ALD Al ₂ O ₃ Thickness on Metal/Insulator/Metal (MIM) Interfacial Energy Barriers, <i>John Conley, Jessica Haglund</i> , Oregon State University	
8:05pm	PCSI-MoE-8 Consistency Checks for Semiconductor Contact Extraction, <i>Dong Kyun Lim (Student)</i> , <i>Jin-Hong Park</i> , Sungkyunkwan University (SKKU), Republic of Korea	
8:10pm	PCSI-MoE-9 Studying Thin Film Surface & Interface Engineering Using Xps and Strataphi: Depth-Resolved, Non-Destructive Analysis of Layered Materials, <i>Jia Lu, Norb Biderman</i> , Physical Electronics USA	

Tuesday Morning, January 19, 2027

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Tuesday Evening, January 19, 2027

PCSI Room Ballroom - Session PCSI-TuE Evening Special Session - Whither Majorana? Moderator: Valla Fatemi, Cornell University		
7:00pm	INVITED: PCSI-TuE-1 Two-Level Systems, Quasiparticles, and Decoherence of Majorana Qubits in Super-Semiconducting Hybrid Structures, <i>Susan Coppersmith</i> , University of New South Wales, Australia	
7:30pm	PCSI-TuE-7 Invited Paper, <i>Greg Mazur</i> , University of California Santa Barbara	
7:45pm		
7:50pm		
7:55pm		

Wednesday Morning, January 20, 2027

Room Ballroom		
8:30am	INVITED: PCSI-WeM1-1 Unconventional Domain Tessellations in Moiré-of-Moiré Lattices, <i>Hyobin Yoo</i> , Seoul National University, Republic of Korea	PCSI Session PCSI-WeM1 2D Materials: Graphene & Beyond Moderator: Jun Xiao , University of Wisconsin - Madison
9:00am	PCSI-WeM1-7 UPGRADED: Unusually Strong Electron-Phonon Kinks in Graphene and hBN, <i>Justin Wells</i> , University of Oslo, Norway	
9:15am	PCSI-WeM1-10 Self-Intercalated Ti Reveal Stacking Order in Bilayer TiSe ₂ Films, <i>Nicolas Paulo Pereira Vasconcelos (Student)</i> , University of South Florida	
9:20am	PCSI-WeM1-11 Electronic Spectroscopy of Atomic Defects in Molybdenum Disulfide under Ambient Conditions, <i>Joshua R. Evans (Student)</i> , <i>Diego A. Garibay</i> , <i>Aiden N. Kuhls</i> , <i>Mehmet Z. Baykara</i> , University of California at Merced	
9:25am	PCSI-WeM1-12 Sulfur Vacancy-Induced Dielectric Screening Crossover in Single-Layer WS ₂ , <i>Christopher Smyth</i> , Sandia National Laboratories; <i>Alex Boehm</i> , SNL New Mexico - Albuquerque; <i>Hayden Barry</i> , University of Virginia, Department of Materials Science and Engineering; <i>Andrew Kim</i> , Sandia National Laboratories; <i>Catalin Spataru</i> , Sandia national laboratories; <i>Jordan Hachtel</i> , Center for Nanophase Materials Sciences, Oak Ridge National Laboratory; <i>Tzu-Ming Lu</i> , Sandia National Laboratories; <i>Jose Fonseca</i> , <i>Jeremy Robinson</i> , Naval Research Laboratory; <i>Kory Burns</i> , University of Virginia; <i>Taisuke Ohta</i> , Sandia National Laboratories	
9:30am	INVITED: PCSI-WeM1-13 Information-Theoretic Imaging of Layered Quantum Materials, <i>Monica Allen</i> , University of California at San Diego	
10:00am	Break & Poster Viewing	
11:00am	PCSI-WeM2-31 UPGRADED: Direct Writing of N-Heterocyclic Carbene Nanostructures, <i>Milan Kubicki</i> , Technische Universität Berlin, Germany; <i>Preeti Chahar</i> , Universität Münster, Germany; <i>Dominik Schmidt</i> , Technische Universität Berlin, Germany; <i>Ankita Das</i> , Universität Münster, Germany; <i>Marie-Louise Fraser</i> , <i>Anna Doronina</i> , <i>Gustav Lorenz</i> , <i>Clara Kühn</i> , <i>Johannes Tröger</i> , <i>Philipp Gruber</i> , <i>Viktoria Balfanz</i> , <i>Mario Dähne</i> , Technische Universität Berlin, Germany; <i>Conor Hogan</i> , CNR-Istituto di Struttura della Materia (CNR-ISM), Italy; <i>Frank Glorius</i> , Universität Münster, Germany; <i>Martin Franz</i> , Technische Universität Berlin, Germany	PCSI Session PCSI-WeM2 Molecular, Organic and Hybrid Interfaces Moderator: Noa Marom , Carnegie Mellon University
11:15am	PCSI-WeM2-34 UPGRADED: Is the CISS Effect a Special Case of Emergent Magnetization at Metal–Molecule Interfaces?, <i>Yonatan Dubi</i> , Ben Gurion Uni. Be'er Sheva, Israel	
11:30am	PCSI-WeM2-37 UPGRADED: Stable Covalent Bonding between Two Closed-Shell Atomic Orbitals, <i>Andrés Pinar Solé</i> , Center for Quantum Nanoscience, Republic of Korea	
11:45am	PCSI-WeM2-40 Rare Earth Modified Silicon Surfaces: A Promising Template for Ordered Organic Growth, <i>Milan Kubicki</i> , <i>Martin Franz</i> , <i>Mario Dähne</i> , <i>Yi Lu</i> , <i>Marie-Louise Fraser</i> , <i>Philipp Gruber</i> , TU Berlin, Germany	
11:50am	PCSI-WeM2-41 Reversible Subsurface Diffusion and Redox Reactions of 2D Copper Boride, <i>Kevin Sutherland</i> , UC Merced; <i>Dahee Lee</i> , <i>Jennifer Sanchez</i> , <i>Adam Buratowski</i> , University of Texas at San Antonio; <i>Ashley Head</i> , <i>Abdullah Al-Mahboob</i> , <i>Dario Stacchiola</i> , Brookhaven National Laboratory; <i>Fang Xu</i> , University of Texas at San Antonio	

Wednesday Afternoon, January 20, 2027

Room Ballroom		
2:00pm	INVITED: PCSI-WeA1-1 From Epitaxy to Emergent Properties in Topological Quantum Materials, <i>Matthew Brahlek</i> , Oak Ridge National Laboratory	PCSI Session PCSI-WeA1 Topological Thin Films & Heterostructures Moderator: Cui-zu Chang , Penn State University
2:30pm	PCSI-WeA1-7 UPGRADED: Negative Longitudinal Magnetoresistance and Angle Dependent Transport Near the Quantum Limit in Cd ₃ As ₂ Films, <i>Ian Leahy</i> , Anthony Rice, National Laboratory of the Rockies; <i>Herve Ness</i> , King's College London, UK; <i>Jocienne Nelson</i> , Mark van Schilfgaarde, Kirstin Alberi, National Laboratory of the Rockies	
2:45pm	PCSI-WeA1-10 Thickness-Dependent Fermi Surface Evolution in Ultrathin Bi _{0.85} Sb _{0.15} Films Probed by Shubnikov–de Haas Oscillations, <i>Shirshendu Chatterjee (Student)</i> , University of California at Santa Barbara	
2:50pm	PCSI-WeA1-11 Classification of Band Topology from Wannier Functions and Tight-Binding, <i>Jing Zhang</i> , Imperial College London, UK	
2:55pm	INVITED: PCSI-WeA1-12 THz Electrodynamics in 2D Correlated Topological Semimetals: From High-Performance Sensing to Programmable Chiral Charge Order, <i>Jun Xiao</i> , University of Wisconsin - Madison	
3:25pm	Break & Poster Viewing	
4:30pm	PCSI1-WeA2-31 Pressure Dependence of Thermal Boundary Conductance at 2D-Substrate Interfaces, <i>Sylvester Makumi</i> , Aidan Belanger, <i>Zlatan Aksamija</i> , University of Utah	PCSI Session PCSI1-WeA2 Thermal Transport, Surface Processing & Nanofabrication Moderator: Andrew O'Hara , Western Michigan University
4:35pm	PCSI1-WeA2-32 Tuning the Vibrational Density of States of van der Waals Heterostructures for Enhanced Thermal Boundary Conductance, <i>Aidan Belanger (Student)</i> , Sylvester W. Makumi, Zlatan Aksamija, University of Utah	
4:40pm	PCSI1-WeA2-33 Si The Effect of Surface Roughness on the Interfacial Defect Density between High-k and Silicon Channel of GAAFETs, <i>Seonghwan Shin</i> , Electronics and Telecommunications Research Institute (ETRI), Republic of Korea	
4:45pm	PCSI1-WeA2-34 Digital Etching of Single-Crystalline Silicon Fin Barriers Down to Sub-10 nm, <i>YU WU (Student)</i> , University of California at Santa Barbara	
4:50pm	PCSI1-WeA2-35 Focused Helium Ion Beam Nanofabrication by Near Surface Swelling, <i>Sherry Mo</i> , University of California, Berkeley	
4:55pm	PCSI1-WeA2-36 Accessible, Cleanroom-Free Surface Acoustic Wave Resonators, <i>David Shaw (Student)</i> , Andrew Reid, Mariana Fazio, Kimia Witte, University of Strathclyde, UK	

Thursday Morning, January 21, 2027

PCSI Room Ballroom - Session PCSI-ThM Semiconductor Heterostructures & Epitaxy Moderator: Joe Falson, Caltech		
8:30am	INVITED: PCSI-ThM-1 Epitaxial Growth, Materials Characterization, and Detector Assessments of Quinary GaInAsSbBi, Rigo Carrasco , <i>Alexander Newell, Zinah Alsaad, Julie Logan, Christian Morath, Diana Maestas</i> , Air Force Research Laboratory, USA; <i>Christopher Hains</i> , Aerovironment Inc, USA; <i>Preston Webster</i> , Air Force Research Laboratory, USA	
9:00am	PCSI-ThM-7 Pressure-Dependent Photoluminescence and Strain Response of a 1.7 μm Cutoff InGaAsSb/AlGaAsSb Multi-Quantum Well, Meghan Verano (Student) , New Mexico State University	
9:05am	PCSI-ThM-8 Probing THz-Driven Excitons in Magnetic and Conventional Semiconductors, Meghan Verano (Student) , New Mexico State University	
9:10am	PCSI-ThM-9 Spin-Orbit-Coupled Electronic and Vibrational Properties of ZnO/ZnS Quantum-Dot Heterostructures, Wisdom Benson (Student) , Howard University	
9:15am	PCSI-ThM-10 Sapphire Nitridation for Highly Crystalline (0002) AlN Heteroepitaxy, Spencer Gellerup , Oak Ridge National Laboratory; <i>Matthew Brahlek, Kyle Kelley</i> , Oak Ridge National Laboratory	
9:20am	PCSI-ThM-11 TiZrN-based Coatings for Dry Machining Deposited by Dual-beam EB-PVD, <i>Glenn Cassar</i> , Andre Giordimaina , <i>Kieran Axisa</i> , University of Malta	
9:25am	Break & Poster Viewing	
11:00am	PCSI-ThM-31 Closing Remarks	

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