

First Name	Last Name	Session Day	Abstract Code & Time	Title
khemakhmia	abdeslem	Sun	B4-02 10:12 AM-10:24 AM	Integrating International MasterClasses in Physics Education: Bridging the Gap Between Classrooms and Cutting-Edge Research
Farook	Al-Shamali	Sun	D2-01 3:00 PM-3:12 PM	Nikola Tesla in Science Textbooks in the Canadian Education System
Michael	Altman	Mon	E6-02 1:54 PM-2:18 PM	Enabling students to achieve successful careers in Medical Physics
Karen	Andeen	Mon	G4-03 3:54 PM-4:06 PM	Workshop and Discussion: Seminars to Incorporate non-technical skills into the physics curriculum, Devised at Marquette University
Matthew	Anderson	Mon	G1-01 3:30 PM-3:42 PM	Seeing Virtually: An Exploration into Teaching E&M in Augmented Reality
Sandra	Arango-Caro	Sun	A4-01 9:00 AM-9:24 AM	Students are Plant Scientist through Authentic Research Experiences and Educational Technology
Carolina	Artacho Guerra	Tues	H2-01 8:00 AM-8:12 AM	Creating equitable spaces while teaching traditional science content - a framework for culturally responsive, content-based classrooms.
JERRY	ARTZ	Sun	A2-04 9:36 AM-9:48 AM	Update Regarding a "5-Star" Student Self-Assessment to Promote Honesty, Integrity, and Learning in Solving General Physics Homework Problems
Rudra	Aryal	Mon	E3-04 2:06 PM-2:18 PM	Transforming Physics Education with a Collaborative Research Approach: A Case Study on Air Pollution
Eldred (Jay)	Bagley	Mon	F5-02 2:54 PM-3:18 PM	Innovation of Drones in Physics
Blane	Baker	Tues	J1-01 10:00 AM-10:12 AM	Incorporating Interdisciplinary Topics into Introductory Physics Courses
Bree	Barnett Dreyfuss	Sun	A1-03 9:24 AM-9:36 AM	STEP UP's Everyday Actions Guide as a Tool for Teacher Reflection
Bree	Barnett Dreyfuss	Sun	C5-01 2:00 PM-2:48 PM	Women in Physics: Uncover Hidden Bias with our Expanded Interactive Lesson
Bree	Barnett Dreyfuss	Tues	I5-05 9:00 AM-9:48 AM	Designing your Classroom for Inclusive Physics with STEP UP
Melissa	Barru	Sun	B2-01 10:00 AM-10:12 AM	Supporting active student learning in a co-taught introductory Astronomy class for non-STEM students
Sean	Bentley	Sun	B1-02 10:12 AM-10:24 AM	Quantum Engineering Pre-College Course
Jennifer	Birriel	Sun	D4-01 3:00 PM-3:24 PM	Educating K-16 Students About Light Pollution
Katherine	Black	Sun	B4-03 10:24 AM-10:36 AM	Implementing Gels in a Nuclear Science Lab

Valarie	Bogan	Sun	A4-02 9:24 AM-9:48 AM	Be a Citizen Scientist on SuperKnova
Valarie	Bogan	Tues	H2-02 8:12 AM-8:24 AM	Broadening Participation through REU Programs
Caleb	Bonyun	Tues	I1-03 9:36 AM-9:48 AM	Physics is Fun! Using Social Media to Communicate STEM
Bob	Brazzle	Tues	H3-01 8:00 AM-8:12 AM	Inexpensive Setup for kHz-Range Digital Data from Underdamped LRC Circuits
Bill	Bridges	Tues	I2-02 9:12 AM-9:24 AM	Developing a Department-level Retention Rate for Physics Graduate Programs
Jed	Brody	Sun	C3-01 2:00 PM-2:24 PM	Grover's Search Algorithm: A Quantum Computing Exercise for Introductory Students
Juan	Burciaga	Sun	C1-03 2:24 PM-2:36 PM	Curricular Structures in the Undergraduate Physics Major
Dan	Burns	Mon	G6-01 3:30 PM-4:18 PM	Physics with Phones- Waves & Sound
Dan	Burns	Tues	H6-01 8:00 AM-8:48 AM	Physics with Phones- Magnetism
Kristine	Callan	Sun	A2-03 9:24 AM-9:36 AM	Implementing Alternative Grading Strategies in an Upper-Division Mechanics Course
Karen	Camarda	Mon	F3-03 2:54 PM-3:06 PM	Enhancing the e/m Experiment with Simulation
Ying	Cao	Tues	I2-01 9:00 AM-9:12 AM	Shared Resources in Student Understanding of Spherical Unit Vectors in Upper-division E&M, A Case Study
Duncan	Carlsmith	Mon	F3-01 2:30 PM-2:42 PM	Singing Buddha Bowls and Wine Glasses: Modal Analysis of Found Objects
Lisa	Carpenter	Sun	A5-02 9:24 AM-9:48 AM	"Open Zebra: An Open-Source Model for Personalized Learning Pathways with Student-Facing AI"
Kenneth	Cecire	Mon	G5-02 10:12 AM-10:24 AM	Heisenberg's Laser
Benoit	Chalopin	Sun	D3-01 3:00 PM-3:24 PM	Introducing quantum mechanics with a two-mode Mach-Zehnder Interferometer: basic concepts of quantum physics and properties of single photon states
Benoit	Chalopin	Tues	J3-03 10:24 AM-10:36 AM	Quantum state tomography of two-photon polarization states and its application to study decoherence.
Maia	Chandler	Tues	I1-01 9:00 AM-9:24 AM	The Physics of Dragonflies: Science Outreach Catalyst Kits
Themistoklis	Chronis	Mon	E3-03 1:54 PM-2:06 PM	Revolutionizing Physics Education with SIMPHY
Jonathan	Clark	Tues	H5-02 8:24 AM-8:48 AM	Discovery with Desmos
Austin	Colon	Sun	B1-03 10:24 AM-10:36 AM	Teaching Bell's Inequality in Precollege Quantum Education
John	Cordell	Tues	J1-02 10:12 AM-10:24 AM	The Importance of Introducing New Physics Students to the Philosophy of Science
Atharva	Dange	Mon	E4-03 2:06 PM-2:18 PM	Investigating the Role of Generative AI in Enhancing Student Engagement and Performance in an Asynchronous Physics Course.

Shahida	Dar	Sun	A2-01 9:00 AM-9:12 AM	The Inclusive CATs
Nina Morley	Daye	Sun	D5-01 3:00 PM-3:48 PM	PTRA Presents Make, Take, Learn, Do
Tansu	Daylan	Sun	B3-04 10:36 AM-10:48 AM	The ExoCup
Robert	DeLaCruz	Sun	B1-01 10:00 AM-10:12 AM	Teaching Polarization and Interference with the Mach-Zehnder Interferometer in Precollege Quantum Education
Jennifer	Delgado	Sun	C2-04 2:36 PM-2:48 PM	Comparison of Self-efficacy in Physics Labs, 1st and 2nd semester, Algebra and Calculus-based Sequences
Meghan	DiBacco	Sun	A1-02 9:12 AM-9:24 AM	Using Vernier Video Analysis to Investigate Motion in High School Physics Projects
Toby	Dittrich	Sun	B3-03 10:24 AM-10:36 AM	What we have learned from JWST
Jonathan	Engelman	Mon	E2-01 1:30 PM-1:42 PM	Launching Knowledge: Engaging Non-Physics Students in a Hands-On Rocket Lab Experience
Mike	Florek	Sun	C6-01 2:00 AM-2:48 AM	Vertical Articulation from K-8 to HS with the NGSS Science Practices
Thomas	Foster	Sun	A2-02 9:12 AM-9:24 AM	Ungrading in physics seminar, college physics, and preparation courses
Nathan	Frank	Mon	G3-02 3:42 PM-3:54 PM	Integrating Python Computation in Classical Mechanics
Phil	Fraundorf	Mon	G1-02 3:42 PM-3:54 PM	Spacetime effects here on earth: Moving beyond global time
Phil	Fraundorf	Mon	G4-02 3:42 PM-3:54 PM	Vivan's travelogue: Tales told by an interstellar traveler.
Roger	Freedman	Tues	I3-03 9:24 AM-9:36 AM	A Cat and a Squirrel as Physics Educators: Supplementing an Intro Physics Textbook with Comics
James	Freericks	Tues	J3-02 10:12 AM-10:24 AM	How to use quantum computing to illustrate important single quantum experiments for quantum instruction
Merideth	Frey	Sun	C1-05 2:48 PM-3:00 PM	Making Nuclear Magnetic Resonance Resonate with Students: NMR as an Entryway to the Quantum World
Amy	Furniss	Tues	I3-02 9:12 AM-9:24 AM	Transparency in University-level Introductory Physics
Joseph	Ganem	Tues	H4-01 8:00 AM-8:48 AM	Physics Degree Variations
Richard	Gelderman	Sun	B6-02 10:24 AM-10:48 AM	Interactively Experiencing the "There Are Two Types" Activity as an Example of NGSS Based Practices
Vayujeet	Gokhale	Sun	D4-03 3:36 PM-3:48 PM	Addressing light pollution on your campus: Introducing the Campus SHINE Initiative
Scot	Gould	Sun	B2-04 10:36 AM-10:48 AM	Learning Physics using Maple - Creating the Next Generation Textbook Through YouTube
Kathryn	Hamilton	Mon	G3-01 3:30 PM-3:42 PM	Integrating Jupyter Notebooks into a Methods of Mathematical Physics Course
Kathleen	Harper	Tues	I3-01 9:00 AM-9:12 AM	Promoting Good Student Habits via Weekly Formative Quizzes

Ahmed	Hassan	Sun	B3-01 10:00 AM-10:12 AM	Using Physics, X-rays, Earth Rocks, and Ash to study the Properties of the Soil on the Moon
Nicole	Heaver	Mon	F5-01 2:30 PM-2:54 PM	Beyond the Textbook: Redefining Physics with AR/VR Adventures
Jeff	Hengesbach	Mon	F4-03 2:54 PM-3:06 PM	My introduction to the NASA HEAT Project as a novice astrophysist
James	Hirons	Sun	C2-01 2:00 PM-2:12 PM	Self-Study and Success: The Impact of Student Use of Open-Access Resources on Introductory Course Performance
Tracy	Hodge	Sun	D4-02 3:24 PM-3:36 PM	Using a Sky Quality Meter to Measure Light Trespass at the Berea College Pinnacles
Kazi Aatish	Imroz	Sun	D2-03 3:24 PM-3:36 PM	Investigating Student Perceptions of Negative Signs in Transformed Calculus-based Physics course
Lelemia	Irvine	Mon	G2-03 4:06 PM-4:18 PM	'O wai ke kumu (Who is the source of knowledge?): Critical Insights from a Native Hawaiian Physics Professor on applying 'ike Hawai'i to physics education
Amy	Johnson	Sun	C4-02 2:24 PM-2:48 PM	Student MCQ Performance in AP Physics 1
Sarah	Johnson	Mon	E5-01 1:30 PM-2:18 PM	Women+ and Gender Minorities in Physics: A Roundtable Discussion
Marty	Johnston	Tues	I1-02 9:24 AM-9:36 AM	Unearthing Newton: Exploring Industrial Heritage with Physics as a Guide
Jasmine	Jones	Mon	F2-01 2:30 PM-2:54 PM	Contesting the boundaries of physics teaching: What it takes to transform physics education toward justice-centered ends
Janet	Kahn	Tues	J5-01 10:00 AM-10:12 AM	K-12 STEM and Physics Teacher Retention from a Federal Perspective
Seth	Kimbrell	Sun	A3-03 9:24 AM-9:36 AM	Encouraging students to critically engage with AI-generated problems and solutions in introductory mechanics
Joseph	Kozminski	Tues	J4-01 10:00 AM-10:48 AM	Rethinking the Undergraduate Physics Curriculum
Heena	Lakhani	Sun	A1-04 9:36 AM-9:48 AM	Studying Iterations of Physics Teachers' Professional Learning: Uncovering Design Principles to Support the Integration of Equity in Physics Instruction
Madeline	Lee	Sun	B4-01 10:00 AM-10:12 AM	Name that Neutrino: Citizen Science Meets Machine Learning at IceCube
Elissa	Levy	Sun	A3-01 9:00 AM-9:12 AM	Does Generative AI Understand Physics? Let Your Students Decide!
Zengqiang	Liu	Mon	F3-02 2:42 PM-2:54 PM	Integrating Computation with MicroPython and sensors

Frank	Lock	Sun	J1-04 10:36 AM-10:48 AM	Information from the 2024 Intergovernmental Panel on Climate Change (IPCC) Report That Can Be Used in Your Classroom
Ramon	Lopez	Sun	C3-02 2:24 PM-2:48 PM	The Quantum for All Students and Teachers Project: Sample Activities and the Historical Storyline Linking Them
Marie	Lopez del Puerto	Mon	E3-01 1:30 PM-1:42 PM	PICUP's 5-year plan to help YOU integrate computation into your Physics course
Kristine	Lui	Tues	J5-03 10:36 AM-10:48 AM	Creating Successful Professional Development Programs
Eric	Majzoub	Sun	D1-04 3:36 PM-3:48 PM	Open source software package for quantum mechanics
Wayne	Manrakhan	Mon	E2-02 1:42 PM-1:54 PM	Enhanced student support in introductory Physics courses motivated by OPTYCs Leadership Institute
Daniel	Marsh	Sun	D2-02 3:12 PM-3:24 PM	Student Understanding of Xeno's Dichotomy Paradox in Multiple Representations
Jeovanny	Marticion	Mon	G2-02 3:54 PM-4:06 PM	Cultural profile, epistemological beliefs and scientific literacy: implications towards learning Physics in multicultural classroom
Jeffrey	Marx	Sun	B3-02 10:12 AM-10:24 AM	Astrometry on close-separation hot and cold double star systems
Clifton	Massey-Noel	Mon	E4-02 1:54 PM-2:06 PM	The Creation of an Asynchronous Modern Physics Course: Preliminary Results
Krista	McBride	Tues	H3-03 8:24 AM-8:48 AM	An Vector Addition Scavenger Hunt For First-Year Physics Students
Timothy	McCaskey	Sun	A3-02 9:12 AM-9:24 AM	Using partially incorrect AI output as a tool on traditional exams
David	Meltzer	Sun	C2-03 2:24 PM-2:36 PM	Pre-instruction diagnostic tests can help predict probability of obtaining high or low course grades in introductory physics
Luis	Mendoza	Mon	G5-01 10:00 AM-10:12 AM	Intuitive Quantum Activities for Secondary School Classrooms
Duane	Merrell	Tues	J5-02 10:12 AM-10:36 AM	Bringing Teachers Together with Food, Physics, and Fun
Shannon	Morey	Sun	A6-01 9:00 AM-9:24 AM	The Patterns Approach in High School Physics: Adapting NGSS Concepts for Any Classroom
Patrick	Moylan	Tues	I2-03 9:24 AM-9:36 AM	Tachyons and the Principle of Relativity
Shankar	Mukherji	Mon	E6-01 1:30 PM-1:54 PM	Introducing mathematical modeling in the life sciences: from the whiteboard to the bench
Kater	Murch	Mon	E1-02 1:54 PM-2:18 PM	Quantum sensing with time travel
Nicholas	Nelson	Mon	F3-04 3:06 PM-3:18 PM	Integrating Computation and Experiment: Coupled Oscillators with Smart Carts

Sean	O'Neill	Mon	G3-03 3:54 PM-4:06 PM	Computational astrophysics for students who like stars (but are less sure about coding)
Chris	Oehrlein	Mon	E2-03 1:54 PM-2:06 PM	A Mathematician Teaches Gen-Ed Algebra-Based College Physics: Challenges, Successes, Observations
Hendrik	Ohldag	Tues	H1-02 8:24 AM-8:48 AM	How National User Facilities Can Motivate Education In Quantum Science
Baaz	Pathan	Mon	F4-04 3:06 PM-3:18 PM	Estimating the Maximum Gravitational Force Between Celestial Bodies and Its Implications on Earth's Tidal Extremes
Bilas	Paul	Sun	A3-04 9:36 AM-9:48 AM	AI in the Classroom: ChatGPT's Performance in Introductory Physics
Richard	Pearson	Sun	C2-02 2:12 PM-2:24 PM	A case study in implementing a blend of alternative grading approaches for an introductory physics course through perception surveys and conceptual inventories
Vincent	Pereira	Sun	B1-04 10:36 AM-10:48 AM	Using Infinite Square Well to Teach Concepts in Quantum Information Science
Spencer	Perry	Mon	E6-03 2:18 PM-2:30 PM	Measuring soil respiration: High-tech and low-tech
Michael	Peterson	Sun	D2-04 3:36 PM-3:48 PM	Deeper Understanding Through Problem Posing
Kristin	Pierce	Tues	H5-01 8:00 AM-8:24 AM	Motion Diagram Manipulatives
John	Pinizzotto	Sun	C4-01 2:00 PM-2:24 PM	Student MCQ Performance in AP Physics Mechanics
John	Pinizzotto	Sun	D6-01 3:00 PM-3:48 PM	AP Physics: Revised Course and Exams for 2024-2025
Freek	Pols	Sun	A5-01 9:00 AM-9:24 AM	Opening up physics demonstrations
Freek	Pols	Sun	B2-04 10:36 AM-10:48 AM	Teaching Scientific Inquiry
Katarzyna	Pomian Bogdanov	Mon	G2-01 3:30 PM-3:54 PM	How do teachers talk about justice-centered issues when designing physics curricula?
Christopher	Porter	Sun	D1-01 3:00 PM-3:12 PM	Filling pedagogical or experiential gaps with quantum computing
Anne Marie	Porter	Tues	J2-02 10:24 AM-10:48 AM	Staying or leaving: A 5-year study of physics major persistence
Parker	Poulos	Sun	B2-02 10:12 AM-10:24 AM	Hands-On Group Work in Online, Semi-asynchronous Introductory Physics Courses
Anil	Pyakuryal	Sun	D1-02 3:12 PM-3:24 PM	Applications of a Fundamental Linear Algebraic Paradigm (FLAP) in Quantum Circuits: A Practical Teaching Pedagogy in Quantum Literacy (QULT)
Kristian	Qirko	Mon	F4-01 2:30 PM-2:42 PM	Signal Extraction and Noise / Pressure Correction in Cosmic Ray Flux Analysis During CME Events
Rahmat	Rahmat	Sun	C2-05 2:48 PM-3:00 PM	Self Compassion in Physics Classroom.

Roberto	Ramos	Tues	H2-04 8:36 AM-8:48 AM	Physics Wonder Girls Program: Celebrating Eleven Years of Supporting Middle and High School Girls in STEM
Sheng	Ran	Mon	F1-02 2:54 PM-3:18 PM	Strongly correlated topological materials
Emma	Rasmussen	Mon	G4-01 3:30 PM-3:42 PM	Modeling Techniques and Misconceptions Analysis on Inquiry-Based Planetarium Activities
Ian	Redmount	Sun	D1-03 3:24 PM-3:36 PM	Quantum Counter-Revolution
Marianna	Ruggerio	Sun	A1-01 9:00 AM-9:12 AM	Note Making in a Physics Thinking Classroom
Toni	Saucy	Tues	I6-01 9:00 AM-9:48 AM	Let Them Teach: Undergraduates doing informal science programs
Carolyn	Sealfon	Tues	I4-01 9:00 AM-9:48 AM	Cultivating Community in Physics Classes
Carolyn	Sealfon	Tues	J6-01 10:00 AM-10:48 AM	Embodying Physics
Jintae	Seoh	Tues	J1-03 10:24 AM-10:36 AM	Teaching Conditional Logic Alongside Physics
Zoya	Siddiqui	Mon	F4-02 2:42 PM-2:54 PM	The Characterization of Cosmic Ray Muon Flux Changes Due to Coronal Mass Ejections
Amogh	Sirnoorkar	Mon	E4-01 1:30 PM-1:54 PM	From Analogies to Assessments: Using AI in teaching and learning of Physics
Richard	Slesinski	Sun	B6-01 10:00 AM-10:24 AM	Navigating NGSS: Lessons Learned from Developing a Kinematics Unit
Larry	Smith	Tues	I3-04 9:36 AM-9:48 AM	The Trouble with Significant Figures
Andrzej	Sokolowski	Mon	G1-03 3:54 PM-4:06 PM	Modeling Wave Function Using Physics Simulation
Chitra	Solomonson	Mon	E2-04 2:06 PM-2:18 PM	Fostering student inquiry through CUREs
Timothy	Stiles	Sun	C1-02 2:12 PM-2:24 PM	Designing and Testing Interactive Online Applets for Upper Level Courses
Frederick	Strauch	Sun	D3-02 3:24 PM-3:48 PM	Decoherence, Entanglement, and Information in the Double-Slit Experiment
MOE	TABANLI	Mon	G5-03 10:24 AM-10:36 AM	Introducing Quantum Hotel as a Novel Tool for Accessible Learning Experience
Tiffany	Taylor	Sun	B5-01 9:00 AM-9:48 AM	Teacher Share-a-thon
Hanna	Terletska	Tues	J3-01 10:00 AM-10:12 AM	Quantum Education and Workforce Development at an Emerging R2 University: The MTSU Quantum Initiative
Aaron	Titus	Mon	E3-02 1:42 PM-1:54 PM	Integrating Computation Through Coding as a Calculator
Jason	Tran	Sun	C1-01 2:00 PM-2:12 PM	Efficient Solution for Kepler Orbits Yields Natural Relationship to Quantum Hamiltonians for Intermediate-Level Physics Courses
Yaren	Ulu	Tues	J2-03 10:48 AM-11:00 AM	Key Predictors of Physics Identity: The Role of Learning Approaches and Engagement

Kasey	Wagoner	Tues	H2-03 8:24 AM-8:36 AM	Simons-NSBP Scholars Program: Experiences from the first five years
Xi	Wang	Mon	F1-01 2:30 PM-2:54 PM	Atomically Thin, Infinite Possibilities: The World of 2D Materials
Susan	White	Tues	J2-01 10:00 AM-10:24 AM	What do we start?
Michael	Wittmann	Sun	C1-04 2:36 PM-2:48 PM	Supporting and Implementing Research-Based Teaching Practices
Andrea	Wooley	Mon	F2-02 2:54 PM-3:18 PM	Researcher and Teacher perspectives on integrating cultural resources in physics learning through formative assessments
Joe	Wyatt Jr	Tues	H3-02 8:12 AM-8:24 AM	Using the Pendulum to teach concepts in Physics
Chong	Zu	Mon	E1-01 1:30 PM-1:54 PM	Quantum diamond sparkles
Ben	Zwickl	Tues	H1-01 8:00 AM-8:24 AM	Developing and supporting an interdisciplinary quantum information science and technology minor at RIT