LIST OF SPEAKERS

PRESENTER	TIME	ROOM
MILES ACKERMAN	2:00 PM	B&L 109
MARS ANDERSEN	10:00 AM	B&L LOBBY
AIDAN BACHMAN	10:00 AM	B&L LOBBY
BRIAN BAUER	2:15 PM	B&L 109
ALLISON BLUM	10:00 AM	B&L LOBBY
MATTHEW BOWMAN	9:00 AM	B&L 106
CAMERON BROCHU	10:00 AM	B&L LOBBY
ADAM BROWN	9:15 AM	B&L 106
ROBERT COLLIER	1:45 PM	B&L 106
MICAH CONDIE	11:00 AM	B&L 106
SAMANTHA DEMONTE	2:15 PM	B&L 106
VINCENT DAVIERO	1:45 PM	B&L 109
HENRY DUGGINS	11:30AM	B&L 106
KEVIN EUSCHER	10:00 AM	B&L LOBBY
ISSAC ESCAPA	11:30 AM	B&L 106
OWEN FALL	10:00 AM	B&L LOBBY
YINQI FANG	11:00 AM	B&L 109
HEATHER FLANAGAN	10:00 AM	B&L LOBBY
NOAH FRANZ	9:00 AM	B&L 109
NICOLE HAO	9:15 AM	B&L 109
WALY KARIM		

XLI RSPS – ROCHESTER SYMPOSIUM FOR PHYSICS, ASTRONOMY AND OPTICS STUDENTS
SPS ZONE 2 REGIONAL MEETING

PROGRAM

8:00 AM – 8:30 AM: REGISTRATION AND POSTER SETUP (B&L LOBBY)

8:30 AM: WELCOME: BRAD CONRAD, AMERICAN INSTITUTE OF PHYSICS (B&L 109)

9:00 AM – 10:00 AM: SESSION IA. ASTRONOMY AND ASTROPHYSICS (B&L 109)

SESSION CHAIR: PROF. KA-WAH WONG, SUNY BROCKPORT

Extracting Source Redshifts from Spectroscopic Gravitational Lenses in DESI

Classifying Solar Flares using Supervised Machine Learning

Simulating large scale structure as an effective pion fluid

Investigating the Physical Conditions of Emission-Line Galaxies using DESI Spectroscopy

Exploring the Dark Sectors for New Forms of Matter and Millicharged Particles

NuSTAR Observation of the TeV-Detected Radio Galaxy: 3C 264

Cosmic Ray Detector

1:45 PM – 3:00 PM: SESSION IVA. INSTRUMENTAL & EXPERIMENTAL TECHNIQUES / CONDENSED MATTER (B&L 109)

SESSION CHAIR: PROF. BRANDON

SESSION IA. ASTRONOMY AND ASTROPHYSICS

Extracting Source Redshifts from Spectroscopic Gravitational Lenses in DESI

Classifying Solar Flares using Supervised Machine Learning

Simulating large scale structure as an effective pion fluid

SESSION II. POSTER SESSION

Growth and Characterization of EuO/KTaO3 heterostructures

NuSTAR Observation of the Gamma-Ray Emitting Radio Galaxy: NGC 315

Improving Low-cost Prosthetic Devices

A Temperature Control Stage for Deposition of Thin Metal Films

NuSTAR Observation of the Gamma-Ray Emitting Radio Galaxy: NGC 4261

Depositing Lithium Films to Simulate ICF Reaction Products

An Experiment Simulating the Production, Capture, and Detection of 8Li from an ICF Implosion

l·yŘ ф . ŜóűΣʰú y[ƛΣ ō2űK 2ŦØKƛǑK LJℕ2ŘdzǑŜ y[ƛφ Ly˙2ℕŘŜℕ ű2 ăƛY˙dzfl·űŜ űKƛă Y˙ŜűK2ŘΣ l·

Precision Calculations for Yukawa Coupling Strength Studies in Top-Quark Pair Production at the LHC

Testing the Detection Limits of Ground-based Surveys for Red Giant Asteroseismology

Simulating Decay Energy Spectra Using Geant4

Exploring the Dark Sectors for New Forms of Matter and Millicharged Particles

NuSTAR Observation of the TeV-Detected Radio Galaxy: 3C 264

Cosmic Ray Detector

Exploring the sensitivity of next generation neutrino telescope at IceCube

Particle creation and energy conditions for a quantized scalar field in the presence of an external, time-dependent, Mamaev-Trunov potential

Crystallization Study of Ti-Doped NbO_2 Thin Films

LIST OF PARTICIPANTS

Name	Status	Institution
Miles Ackerman	Undergraduate Student	Union College
Mars Andersen	Undergraduate Student	SUNY University at Buffalo
Aidan Bachmann	Undergraduate Student	University of Rochester
Brian Bauer	Undergraduate Student	Siena College
Andrew Bo	Undergraduate Student	Houghton University
Matthew Bowman	Undergraduate Student	Houghton University
Cameron Brochu	Undergraduate Student	St. Lawrence University
Adam Brown	Undergraduate Student	Houghton University
Allison Blum		

Waly M Z Karim	Undergraduate Student	University of Rochester
Mia (MJ) Keller	Undergraduate Student	University of Rochester
Katrina Koehler	Faculty	Houghton University
Chunsun Lei	Undergraduate Student	Houghton University
Scott Lewis	Undergraduate Student	SUNY Brockport
Joseph Lugten	Undergraduate Student	University of Rochester
Annie Maloney	Undergraduate Student	University of Rochester
Andrew Martin	Undergraduate Student	Houghton University
Amii Matamoros Delgado	Undergraduate Student	University of Rochester
Thomas McEntire	Undergraduate Student	SUNY Univ

RIVER CAMPUS MAP (GPS/MAPS): 252 ELMWOOD AVE, ROCHESTER, NY

PHYSICS & ASTRONOMY MAIN OFFICE: 206 BAUSCH & LOMB HALL 585-275-3433

UNDERGRADUATE COORDIATOR: 210 BAUSCH & LOMB HALL 585-275-4356