APS Advancing Physics

DNP 2025 Schedule

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40 results Session ID Ascending

All | Fri | Sat | Sun | Mon

Monday, October 20

Mon. October 20
02:00p - 03:30p//3WA
Hilton Chicago, Continental C, Lobby Level
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Workshop: Professional Development Panel for Early-Career Scientists I
Invited Session | Panel | Workshop
Invited: Agnieszka M Sorensen

Mon. October 20
02:00p - 03:30p//3WB
Hilton Chicago, Salon C 3 & 4, Lower Level
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Workshop: AI in Nuclear Physics Experiment I
Invited Session | Workshop
Invited: Yeonju Go, Zepeng Li, Christopher Lars Henrik Wrede
– Hide details

02:00p - 02:30p Invited
Overview on ongoing machine learning projects in QCD
Yeonju Go (presenter)

02:30p - 03:00p Invited
Machine learning in experimental nuclear astrophysics
Christopher Lars Henrik Wrede (presenter)

03:00p - 03:30p Invited
Machine learning for Fundamental Symmetries, Neutron and Neutrinos
Zepeng Li (presenter)

Mon. October 20
02:00p - 03:30p//3WC
Hilton Chicago, Salon C 5 & 6, Lower Level
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Workshop: Current Applications of Machine Learning in Nuclear Physics I
Invited Session | Workshop
Invited: Amber S Boehnlein, Michelle Perry Kuchera, Nicolas Schunck
– Hide details

02:00p - 02:30p Invited
Highlights of recent machine learning applications in nuclear physics
Michelle Perry Kuchera (presenter), Raghuram Ramanujan

02:30p - 03:00p AI/ML for Nuclear Theory: Opportunities and Challenges
Invited
Nicolas Schunck (presenter)

03:00p - 03:30p One Facility's Perspective on Data for Machine Learning
Invited
Amber S Boehnlein (presenter)

Mon. October 20
02:00p - 03:00p//3WD
Hilton Chicago, Salon A3, Lower Level
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Workshop: FDSI Physics: Recent Results and Future Plans I

Invited Session Workshop

Invited: Thomas T King, Kay Kolos, Miguel Madurga, Timilehin H Ogunbeku

– Hide details

02:00p - 02:15p Welcome Remarks
Invited
Miguel Madurga (presenter)

02:15p - 02:30p FDSi Phase 2: The Great Move
Invited
Thomas T King (presenter)

02:30p - 02:45p Update on the Complete Decay Spectroscopy of ^{54}Ca and ^{55}Sc: Probing Nuclear Structure Near N = 34.
Invited
Kay Kolos (presenter), Shree K Neupane, Wei Jia Ong, James M Allmond, Robert K. Grzywacz, Bertis C Rasco, Hendrik Schatz, Brad Sherrill, Oleg B. Tarasov

02:45p - 03:00p Discrete and Total Absorption Spectroscopy of β-decaying nuclei near N = 34 at the FDSi
Invited
Timilehin H Ogunbeku (presenter), Wei Jia Ong, James M Allmond, Robert K. Grzywacz, Kay Kolos, Shree K Neupane, Bertis C Rasco, Hendrik Schatz, Brad Sherrill, Oleg B. Tarasov

Mon. October 20
02:00p - 03:30p//3WE
Hilton Chicago, Salon C 1 & 2, Lower Level
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Workshop: Frontiers in TMD Physics: Integrating Theory, Lattice and Phenomenology I

Invited Session Workshop

Invited: Chiara Bissolotti, Christina Cocuzza, Tommaso Rainaldi

– Hide details

02:00p - 02:30p TMD Factorization in the hadron structure oriented approach
Invited
Tommaso Rainaldi (presenter), Ted C Rogers, Andrea Simonelli, Fatma P Aslan, Jose Osvaldo Gonzalez Hernandez, Elena Boglione

02:30p - 03:00p Global QCD Analysis of Proton's Transverse Structure through TMDs and DiFFs
Invited
Christina Cocuzza (presenter), Andreas Metz, Daniel Pitonyak, Alexei Prokudin, Nobuo Sato, Ralf Seidl, Leonard Gamberg, Wally Melnitchouk

03:00p - 03:30p An update from the MAP Collaboration on the latest advancements in TMD Phenomenology
Invited
Chiara Bissolotti (presenter), Alessandro Bacchetta, Valerio Bertone, Matteo Cerutti, Marco Radici, Simone Rodini, Lorenzo Rossi

Mon. October 20
02:00p - 03:30p//3WF
Hilton Chicago, Salon A1, Lower Level
Copy Save

Workshop: Nuclear Masses for Nuclear Astrophysics: Present and Future I

Invited Session Workshop

Invited: Scott Campbell, Mengke Li, Chowdhury Irin Sultana

– Hide details

02:00p - 02:30p Invited
Expanding the Reach of High-Precision Mass Measurements with LEBIT at FRIB
Scott Campbell (presenter), Georg Bollen, Hannah Erington, Christian Ireland, Franziska Maier, Ryan Ringle

02:30p - 03:00p Invited
Nuclear Masses Far from Stability: ToF-Bρ Mass Measurements and Their Impact on Nuclear Astrophysics
Chowdhury Irin Sultana (presenter), Kailong Wang, Alfredo Estradé, Michael A Famiano, S Ahn, A. M. Amthor, Thomas Baumann, Daniel Bazin, Kushi Bhatt, Heather L Crawford, Nikolaos Dimitrakopoulos, Paul Fallon, Benjamin W Famiano, Tom N Ginter, Rahul Jain, Z Korkulu, Sean N Liddick, Z Meisel, Wolfgang Mittig, Neerajan Nepal, Jorge Pereira, Nabin Rijal, A M Rogers, R Rubino, Sithira Samaranayake, Hendrik Schatz, O. B. Tarasov, Pelagia Tsintari, George L Zimba

03:00p - 03:30p Invited
Machine Learning Nuclear Masses for the Astrophysical r-process
Mengke Li (presenter), Matthew R Mumpower, Nicole Vassh, William S Porter, Rebecca A Surman

Mon. October 20
02:00p - 03:30p//3WG
Hilton Chicago, Salon A2, Lower Level
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Workshop: Polarized Ion Beams at the EIC I
Invited Session Workshop

Invited: Renee Hutchins Fatemi, Phiala E Shanahan, Noah B Wuerfel

– Hide details

02:00p - 02:30p Invited
Nucleon spin structure measurements at the EIC : A case for polarized "neutron" beams
Renee Hutchins Fatemi (presenter)

02:30p - 03:00p Invited
QCD in nuclei
Phiala E Shanahan (presenter)

03:00p - 03:30p Invited
Towards a Polarized 3He++ Ion Source at BNL
Noah B Wuerfel (presenter), Christopher Ianzano, Richard G Milner, Grigore Atoian, Edward Beebe, Sergey Kondrashev, Deepak Raparia, John Ritter, Andrei Sukhanov

Mon. October 20
02:00p - 03:30p//3WH
Hilton Chicago, Salon C 7 & 8, Lower Level
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Workshop: Proton-Oxygen and Oxygen-Oxygen Collisions at RHIC and LHC I
Invited Session Workshop

Invited: Sruthy Jyothi Das, Tristan Lewis Protzman, Adam Takacs

– Hide details

02:00p - 02:30p Invited
Investigating small system dynamics with oxygen-oxygen collisions at RHIC
Tristan Lewis Protzman (presenter)

02:30p - 03:00p Invited
Jet quenching in OO collision
Adam Takacs (presenter)

03:00p - 03:30p Invited
Hard probes of O+O collisions at the LHC
Sruthy Jyothi Das (presenter)

Mon. October 20
03:05p - 04:17p//3WJ
Hilton Chicago, Salon A3, Lower Level
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Workshop: FDSI Physics: Recent Results and Future Plans II
Invited Session Workshop

Invited: Peter C Bender, Nico Braukman, Tawfik Mohammed Mosaad Gaballah, Rebeka Sultana Lubna, Tyler Wheeler, Zhengyu Xu

– Hide details

03:05p - 03:17p Invited
The GADGET Program at FRIB
Tyler Wheeler (presenter)

03:17p - 03:29p Invited
FDSi experiments in the newly operational S1 vault at FRIB
Rebeka Sultana Lubna (presenter)

03:29p - 03:41p Invited
E23076: an ISOL-type study of neutron-rich cobalt isotopes at the FDSi
Nico Braukman (presenter), Robert K. Grzywacz, Zhengyu Xu, Ian C Cox, Prabodha Hewaraja Mudalige, Donnie T Hoskins, Miguel Madurga, Jack Peltier

03:41p - 03:53p Invited
First β-Decay Half-Life Measurements of ^{31}F and ^{37}Na Using FDSI
Tawfik Mohammed Mosaad Gaballah (presenter), Benjamin P Crider, Sean N Liddick, Heather L Crawford, Rebeka Lubna, James M Allmond, Vandana Tripathi, Robert K. Grzywacz, Honey Arora, Corrigan J Appleton, Samuel Oluwamayowa Ajayi, Peter C Bender, Caleb B Benetti, Jessica M Berkman, Nico Braukman, Christopher M Campbell, M.P. Carpenter, James Matthew Christie, Roderick M Clark, Ian C Cox, Joseph Dopfer, Amelia A Doetsch, Paul Fallon, Rahul Jain, Noritake Kitamura, Thomas T King, Kay Kolos, Brenden Longfellow, Miguel Madurga, Mejdi J Mogannam, Shree K Neupane, Ellie Ronning, Krzysztof Piotr Rykaczewski, Dustin Scriven, Artemis Spyrou, Samuel L Tabor, Mac B Wheeler, Catur Wibisono, Mathis Wiedeking, Zhengyu Xu, Y. Zhu

03:53p - 04:05p Invited
Probing Deformation Around Z=14 and N=28: Decay Spectroscopy of Exotic Si Isotopes
Peter C Bender (presenter), Vandana Tripathi, Heather L Crawford, James M Allmond, Benjamin P Crider, Robert K. Grzywacz, Sean N Liddick

04:05p - 04:17p Invited
Beta-decays and beta-delayed neutron emission with FDSi
Zhengyu Xu (presenter), Robert K. Grzywacz, Nico Braukman, James Matthew Christie, Ian C Cox, Timothy J Gray, Prabodha Hewaraja Mudalige, Donnie T Hoskins, Miguel Madurga, Jack Peltier, Kevin Siegl

Mon. October 20
04:00p - 05:45p//4WA
Hilton Chicago, Continental C, Lobby Level
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Workshop: Professional Development Panel for Early-Career Scientists II

Invited Session | Panel | Workshop
Invited: Agnieszka M Sorensen

Mon. October 20
04:00p - 05:30p//4WB
Hilton Chicago, Salon C 3 & 4, Lower Level
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Workshop: AI in Nuclear Physics Experiment II

Invited Session | Workshop
Invited: Ming Xiong Liu, Yihui Ren, Ann-Kathrin Schuetz
– Hide details

04:00p - 04:30p Invited
RESUM: Rare Event Surrogate Model for Physics Detector Design
Ann-Kathrin Schuetz (presenter), Alan WP Poon, Aobo Li

04:30p - 05:00p Invited
Intelligent experiments through real-time AI: Fast Data Processing and Autonomous Detector Control for sPHENIX and future EIC detectors
Ming Xiong Liu (presenter)

05:00p - 05:30p Invited
FM4NPP: Foundation Model for Nuclear and Particle Physics.
Yihui Ren (presenter)

Mon. October 20
04:00p - 05:30p//4WC
Hilton Chicago, Salon C 5 & 6, Lower Level

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Workshop: Current Applications of Machine Learning in Nuclear Physics II

Invited Session Workshop

Invited: Chun Shen, Pelagia Tsintari, Yilin Wang

– Hide details

04:00p - 04:30p Invited
Optimizing Low-Energy Nuclear Reaction Measurements using Machine Learning
Pelagia Tsintari (presenter), Kirby Hermansen, Fernando Montes, Georg P Berg, Benjamin H Bucci, Manoel Couder, Georgios Perdikakis, Hendrik Schatz

04:30p - 05:00p Invited
Elucidating QGP properties at finite baryon density with Bayesian inference of RHIC Beam Energy Scan data
Chun Shen (presenter)

05:00p - 05:30p Invited
Data-driven classification of metal-poor stars using machine learning
Yilin Wang (presenter), Nicole Vassh, Richard M Woloshyn, Michelle Perry Kuchera, Maude Lariviere, Kayle Majic, Benoit Côté

Mon. October 20
04:30p - 05:48p//4WD
Hilton Chicago, Salon A3, Lower Level

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Workshop: FDSI Physics: Recent Results and Future Plans III

Invited Session Workshop

Invited: James M Allmond, Robert K. Grzywacz, Thomas Joseph Ruland

– Hide details

04:30p - 04:56p Invited
Progress Update on Recent Phase 2 FDSi Experiments
Thomas Joseph Ruland (presenter)

04:56p - 05:22p Invited
Neutron Detectors for FDS and FDSi
Robert K. Grzywacz (presenter)

05:22p - 05:48p Invited
Gamma Detection with Point-Contact HPGe: DEGA Prototype
James M Allmond (presenter)

Mon. October 20
04:00p - 05:30p//4WE
Hilton Chicago, Salon C 1 & 2, Lower Level

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Workshop: Frontiers in TMD Physics: Integrating Theory, Lattice and Phenomenology II

Invited Session Workshop

Invited: Xiang Gao, Jani J Penttala, Michael L Wagman

– Hide details

04:00p - 04:30p Invited
Energy-energy correlators and determination of Collins-Soper kernel
Jani J Penttala (presenter), Zhong-bo Kang, Congyue Zhang

04:30p - 05:00p Invited
Lattice QCD calculation of Collins-Soper kernel
Michael L Wagman (presenter), Artur Ramisovich Avkhadiev, Phiala E Shanahan, Yong Zhao

05:00p - 05:30p Invited
Lattice QCD Benchmark of Proton Helicity and Flavor-Dependent Unpolarized TMDPDFs at Physical Quark Masses
Xiang Gao (presenter), Swagato Mukherjee, Yong Zhao, Dennis Bollweg

Mon. October 20
04:00p - 05:30p//4WF
Hilton Chicago, Salon A1, Lower Level

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Workshop: Nuclear Masses for Nuclear Astrophysics: Present and Future II

Invited Session Workshop

Invited: Maxime Brodeur, Baishan Hu, Kelsey A Lund

– Hide details

04:00p - 04:30p Ab Initio Calculations of Nuclear Masses
Invited
Baishan Hu (presenter)

04:30p - 05:00p Mass measurements for the r-process at the N=126 Factory
Invited
Maxime Brodeur (presenter)

05:00p - 05:30p Nuclear Uncertainties in r-Process Heavy Element Formation and Kilonova Modeling
Invited
Kelsey A Lund (presenter)

Mon. October 20
04:00p - 05:30p//4WG
Hilton Chicago, Salon A2, Lower Level
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Workshop: Polarized Ion Beams at the EIC II

Invited Session Workshop

Invited: Haixin Huang, Chao Peng, Vera Shmakova

– Hide details

04:00p - 04:30p Development of Polarized Lithium Sources for EIC
Invited
Chao Peng (presenter)

04:30p - 05:00p Hadron Polarimetry Systems for the Electron-Ion Collider: Challenges and Solutions
Invited
Frank Rathmann, Vera Shmakova (presenter)

05:00p - 05:30p Review of Spin Manipulator in EIC
Invited
Haixin Huang (presenter)

Mon. October 20
04:00p - 05:30p//4WH
Hilton Chicago, Salon C 7 & 8, Lower Level
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Workshop: Proton-Oxygen and Oxygen-Oxygen Collisions at RHIC and LHC II

Invited Session Workshop

Invited: Gaute Hagen, Sabrina Hernandez, Christopher Plumberg

– Hide details

04:00p - 04:30p Sensitivity analysis of deformation in atomic nuclei
Invited
Gaute Hagen (presenter)

04:30p - 05:00p Collective behavior of light flavor in O+O collisions
Invited
Christopher Plumberg (presenter)

05:00p - 05:30p First results from ALICE in O-O collisions at 5.36 TeV
Invited
Sabrina Hernandez (presenter)

Mon. October 20
08:30a - 10:18a//S01
Hilton Chicago, Continental A, Lobby Level
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Recent Results from GlueX at Jefferson Lab

Invited Session

Invited: Sean Dobbs, William Imoehl, Robert Perry

– Hide details

08:30a - 09:06a The Quest Toward Hybrid Mesons with GlueX
Invited
William Imoehl (presenter)

09:06a - 09:42a Charmonium Photoproduction with GlueX
Invited
Sean Dobbs (presenter)

09:42a - 10:18a Recent Results from the Joint Physics Analysis Center (JPAC)
Invited
Robert Perry (presenter)

Mon. October 20
08:30a - 10:06a//S02
Hilton Chicago, Salon A1, Lower Level
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Neutrino Physics VIII: 0νββ and Direct Mass IV

– Hide details

08:30a - 08:42a Study of the Decay of ^{137}Xe to the 5/2$^+$ Excited State of ^{137}Cs through a Convolutional Neural Network
Seth Payne Thibado (presenter), Andrea Pocar

08:42a - 08:54a Pulse shape discrimination methods for LEGEND
Aparajita Mazumdar (presenter)

08:54a - 09:06a Emulating Germanium Detector Pulse Shape Parameters with Machine Learning
Shailesh Giri (presenter)

09:06a - 09:18a Delayed Coincidence Analysis for Background Characterization in CUORE
Daniel Innecco (presenter)

09:18a - 09:30a Development of a resonant-cavity-based detector and magnetic field calibration for Cyclotron Radiation Emission Spectroscopy
Elise M Novitski (presenter)

09:30a - 09:42a Event reconstruction for sub-eV energy resolution in the Project 8 neutrino mass experiment
Hannah P Binney (presenter)

09:42a - 09:54a Magnetic Field Correction in Event Reconstruction for the Project 8 Neutrino Mass Experiment
Junior Pena (presenter)

09:54a - 10:06a High-Resolution Measurement of Internal Conversion Lines of 83m-Kr
Yu-Hao Sun (presenter)

Mon. October 20
08:30a - 10:18a//S03
Hilton Chicago, Salon A2, Lower Level

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Nuclear Astrophysics III

– Hide details

08:30a - 08:42a Sensitivity study for the impact of thermonuclear reaction rates in X-ray bursts for different low-mass X-ray binary systems
Alfredo Estrade (presenter), Irin Sultana, Hendrik Schatz, Bradley S Meyer

08:42a - 08:54a Indirect neutron-capture cross-section measurements with the CeBrA-SPS setup at FSU
Rahul Jain (presenter), Richard O Hughes, Andrea L Richard, Mark Spieker, Rajat Aggarwal, Samuel Oluwamayowa Ajayi, Maria Anastasiou, Lagy Baby, Alex L Conley, Jacob Davis, Chris Esparza, Ian Hay, Bryan Kelly, Ibraheem Khurram, Matthew Mestayer, Ashton Brooke Morelock, Wei Jia Ong, Andrew Peters, Austin Rambo, Lewis A Riley, Adam Ring, River Sheridan, Vignesh Sitaraman, Ingo L Wiedenhoever

08:54a - 09:06a Results From Capture Reaction Measurements on Sn and Pd for the γ-Process Using HECTOR
John P McDonaugh (presenter), Anna Simon-Robertson, Chloe R Jones, Jes Koros, Miriam Matney, Leah Zimmer, Coty Walters, Thomas L Bailey, Chevelle Boomershine, Noah A Cabanas, Scott Carmichael, Cade Dembski, Logan Earnest, Ruoyu Fang, Kevin Lee, David G Lund, Pedro Magro, Khachatur Manukyan, Griffin Robert Mulcahy, Fabio Rivero, Daniel J Robertson, Daniel Rascon-Romo, Edward Stech, Wesley Sutton, Adam T Sanchez, William W von Seeger, Maxwell Q Sorensen, Regan Zite

09:06a - 09:18a Spectroscopic factors of mirror states near N=Z
Molly E McLain (presenter), Catherine M Deibel, Gemma L Wilson, Jeffery C Blackmon, Ingo Wiedenhoever, Lagy Baby, Philip Adsley, Rajat Aggarwal, Samuel Ajayi, Sudarsan Balakrishnan, Caleb B Benetti, Akhil Bhardwaj, Keilah S Davis, Peter DeRosa, Alex L Conley, Kenneth Hanselman, David He, Bryan Kelly, Eilens Lopez Saavedra, Ruchi Mahajan, Gordon William McCann, Ashton Brooke Morelock, Khang H Pham, Vignesh Sitaraman, Catur Wibisono

09:18a - 09:30a Spectroscopy of low-lying d+^{7}Be resonances through coincident detection of decay particles
Adam Ring (presenter), Ingo L Wiedenhover, Gordon W McCann, Rajat Aggarwal, Lagy Baby, Jeff C Blackmon, William Braverman, Alex L Conley, Andrew Cook, Jacob Davis, Catherine M Deibel, Juan C Esparza, Ian Hay, Bryan Kelly, Ibraheem Khurram, Marco La Cognata, Ruchi Mahajan, Matthew Mestayer, Ashton Morelock, Andrew Peters, Daniel Seijas, Vignesh Sitaraman, Catur Wibisono

09:30a - 09:42a Recent Results from the St. George Recoil Mass Separator
Adam T Sanchez (presenter), Logan Earnest, Ruoyu Fang, Joachim Goerres, Jerry D Hinnefeld, Shane Moylan, Vinny Picciotto, Leah Zimmer, Noah A Cabanas, Scott Carmichael, Victoria R Fallon, Chloe R Jones, Miriam Matney, John P McDonaugh, Ruchi Rathod, Daniel J Robertson, Mackenzie Smith, Edward Stech, Cierra Tinson, Manoel Couder

09:42a - 09:54a The study of the 17F(α,p) reaction using the upgraded ANASEN detector
Vignesh Sitaraman (presenter), Ingo L Wiedenhoever, Ruchi Mahajan, Lagy Baby, Akhil Bhardwaj, Jeff C Blackmon, William Braverman, Keilah Davis, Catherine M Deibel, Juan Christopher Esparza, Gordon W McCann, Khang H Pham, Adam Ring, Ryan Tang, Gemma L Wilson

09:54a - 10:06a ^{15}N(α,γ)^{19}F Measurements with the Rhinoceros Gas Target to Determine Level Properties of ^{19}F in the E_x ~ 7.0 - 7.3 Region
wesley allen sutton (presenter), Jacob Allen, Dan W Bardayan, Drew Blankstein, Chevelle Boomershine, Sydney Danielle Coil, Richard J DeBoer, August Gula, Samuel Henderson, Shane Moylan, Graham L O'Donnell, Patrick D O'Malley, Daniel J Robertson, Melody Shimba, Edward Stech

10:06a - 10:18a Nuclear reaction cross-section measurements in mirror nuclei ^{7}Li and ^{7}Be using Active-Target Time Projection Chamber.
Magdalena Kuich (presenter), Juan C Zamora, Yassid Ayyad, Valdir Guimaraes, Sunghoon Ahn, Benjamin P Kay, Dan W Bardayan, Adriana Barioni, Roberto Linares, Sk Mustak Ali, Jie Chen, Sunghan Bae, Jung Woo Lee, Minju Kim, Beceiro-Novo Saul, Gordon W McCann, Zach M Serikow, Shane Painter, Simon Giraud, Patrick J McGovern, Melina Avila, Calem R Hoffman, Daniel Bazin, Wolfgang Mittig

Mon. October 20
08:30a - 09:54a//S04
Hilton Chicago, Salon A3, Lower Level

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Nuclear Theory VI

— Hide details

08:30a - 08:42a Improving harmonic oscillator basis in covariant density functional theory
Bernard Osei (presenter), Anatoli Afanasjev, Ali Dalbah

08:42a - 08:54a Predictive phenomenological optical potentials through a unified description of scattering and structure
Salvatore Simone Perrotta (presenter), Cole D Pruitt, Oliver C Gorton, Jutta E Escher

08:54a - 09:06a Non-Efimovian two-neutron halo nuclei
Lucas Platter (presenter)

09:06a - 09:18a Electromagnetic Properties of Nuclei with 50 Neutrons
Jordan Alan Purcell (presenter), Alex Brown

09:18a - 09:30a Progress towards EFT for EDFs: Symmetry restoration techniques with Effective Actions
Pranav Sharma (presenter), Dick Furnstahl

09:30a - 09:42a Spurious Isospin Symmetry breaking in the In-Medium Similarity Renormalization Group
Ragnar R Stroberg (presenter), Alexander Farren

09:42a - 09:54a A multi-reference equation of motion method in nuclear structure calculation
Zhonghao Sun (presenter), Ragnar R Stroberg

Mon. October 20
08:30a - 10:06a//S05
Hilton Chicago, Salon A4, Lower Level

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Mini-Symposium: Data-driven Discoveries in Nuclear Physics III

Mini-Symposium

Invited: Patrick Cook

– Hide details

08:30a - 09:06a Parametric Matrix Models: Equations as Data
Invited
Patrick Cook (presenter), Danny Jammooa, Morten Hjorth-Jensen, Dean J Lee

09:06a - 09:18a Exctracting Non-Perturbative Ground States from First-Order Perturbation of Monte Carlo Lattice Simulations
Danny Jammooa (presenter), Patrick Cook, Dean J Lee, Morten Hjorth-Jensen, Yuanzhuo Ma

09:18a - 09:30a A Time-Dependent Parametric Matrix Model for Nuclear Reaction Networks
Elisha P Alemao (presenter), Patrick Cook, Danny Jammooa, Dean J Lee

09:30a - 09:42a Examining Scaling Laws of Parametric Matrix Models
Nick Rohde (presenter), Patrick Cook, Danny Jammooa, Dean J Lee

09:42a - 09:54a Using Parametric Matrix Models to Emulate Magnus IMSRG
Benjamin Reed Clark (presenter), Heiko Hergert, Scott K Bogner, Kang Yu, Patrick Cook

09:54a - 10:06a Reduced Order Modeling of the In-Medium Similarity Renormalization Group
Aryan Vaidya (presenter)

Mon. October 20
08:30a - 10:18a//S07
Hilton Chicago, Salon C 1 & 2, Lower Level

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Mini-Symposium: Exploiting Hard Probes to Study the Quark-Gluon Plasma I

Mini-Symposium

Invited: Yen-Jie Lee

– Hide details

08:30a - 09:06a Exploiting Hard Probes to Study the Quark Gluon Plasma
Invited
Yen-Jie Lee (presenter)

09:06a - 09:18a Jet momentum broadening and gluon emission rates during the pre-hydrodynamic stages in heavy-ion collisions
Florian Lindenbauer (presenter), Alois Altenburger, Kirill Boguslavski

09:18a - 09:30a Bottomonium suppression and regeneration in p + Pb collisions at LHC energies
Sabin Thapa (presenter), Jacob P Boyd, Biaogang Wu, Ralf F Rapp, Ramona L Vogt

09:30a - 09:42a Effects of Heavy Quark Energy Loss and Coalescence on the Suppression and Flow of Heavy Mesons, Baryons, and Jets
Jean Francois Du Plessis (presenter), Krishna Rajagopal, Daniel Pablos, Andrea Beraudo

09:42a - 09:54a Data driven approach to background subtraction for jet substructure measurements
Zoltan Varga (presenter), Ananya Rai, Andrew Christopher Tamis, Sierra L Cantway, Lily Chatalbasheva, Laura B Havener, Helen Caines

09:54a - 10:06a Investigation of jet substructure using the archived ALEPH e+e- data at 91 GeV
Yi (Luna) Chen, Mysha J Khan (presenter), Yen-Jie Lee, Jingyu Zhang, Hannah Bossi, Anthony Badea, Marcello Maggi, Michael Peters, Yu-Chen Chen, Christopher McGinn

10:06a - 10:18a First Indication that Quark-Gluon Plasma has a Nonzero Resolution Length
Arjun S Kudinoor (presenter), Daniel Pablos, Krishna Rajagopal

Mon. October 20
08:30a - 09:30a//S08
Hilton Chicago, Salon C 3 & 4, Lower Level
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Tests of the Weak Interaction via Beta Decay

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08:30a - 08:42a Overview of St. Benedict & Recent Developments
Olivia Bruce (presenter), Maxime Brodeur, Regan Zite, Fabio Rivero, William S Porter, Alicen M Houff, Patrick D O'Malley, James J Kolata, Adrian A. Valverde, Biying Liu, Jason Allan Clark, Guy Savard, Aaron T Gallant, Daniel Schroeder

08:42a - 08:54a Simulations of dynamics and decay in the St. Benedict Paul trap
William S Porter (presenter), Aaron T Gallant, Maxime Brodeur, James Burke, Patrick D O'Malley, Magdalena Regenauer, Fabio Rivero, Regan Zite

08:54a - 09:06a Recent Results from He6-CRES Towards a Percent Level Measurement of b_{fierz}
Heather Sky Harrington (presenter)

09:06a - 09:18a Search for Baryon number violation with CUORE
Vivek Sharma (presenter)

09:18a - 09:30a Renormalization of beta decay at three loops and beyond
Richard J Hill (presenter), Ryan Plestid, Peter Vander Griend, Kaushik Borah, Zehua Cao

Mon. October 20
08:30a - 10:18a//S09
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Hadron Spin Degrees of Freedom

– Hide details

08:30a - 08:42a First Measurement of Inclusive Jet Transverse Single Spin Asymmetries at sPHENIX
Muhammad Shahid (presenter), Murad Sarsour

08:42a - 08:54a Status of FNAL-SpinQuest Experiment toward Measurements of Antiquark Sivers Asymmetry
Kenichi Nakano (presenter)

08:54a - 09:06a Precise measurement of the neutron d_2 at high Q^2
Minho Kim (presenter)

09:06a - 09:18a Transverse Single Spin Asymmetry Extraction Using Omnifold

Stephen Pate (presenter), Harsha Arachchige, Chatura Kuruppu, Dinupa Nawarathne

09:18a - 09:30a Design and Operation of the SpinQuest Polarized Target System
Vibodha Y Bandara (presenter), Dustin Keller

09:30a - 09:42a SpinQuest Polarized Target Developments and Simulation-based Systematics Studies
Vaniya Ansari (presenter)

09:42a - 09:54a Measurement of the Transverse Single-Spin Asymmetry in J/ψ
Nuwan Chaminda Gunawardhana Waduge (presenter), Forhad Hossain, Dustin Keller

09:54a - 10:06a The b_1 (E12-13-011) Tensor Polarized Target Experiment at Jefferson Lab
Muhammad Farooq (presenter), Karl J Slifer

10:06a - 10:18a Measurement of Packing Fraction in Polarized Ammonia Targets
Meredith Kim (presenter), Sujan Subedi, Dustin Keller

Mon. October 20
08:30a - 09:54a//S10
Hilton Chicago, Salon C 7 & 8, Lower Level

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Instrumentation VII: Novel Detectors

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08:30a - 08:42a Characterization and Scientific Opportunities at the Colorado Underground Research Institute (CURIE)
Wouter Van De Pontseele (presenter), Dakota Keblbeck

08:42a - 08:54a A New Approach for the Design of Large-Area Timing Scintillators
Magdalena Kuich (presenter), Jorge Pereira, Alfredo Estrade

08:54a - 09:06a From Bulk to Nanoscale: Profiling Charge Carrier Mobility in Home-Grown High-Purity Germanium Crystals
Narayan Budhathoki (presenter), Sanjay Bhattarai, Kunming Dong, Sunil Chhetri, Austin Warren, Shasika Panamaldeniya, Athul Prem, Dongming Mei

09:06a - 09:18a Digital Frequency Multiplexed Transition-Edge Sensors for CUPID R&D
Joseph Hall Camilleri (presenter), Bradford C Welliver

09:18a - 09:30a Characterization of Scintillation Quenching in GAGG:Ce Crystals
Nicholas C Floyd (presenter), Felix Liang, Heshani Jayatissa, Sherry J Yennello, Travis Hankins

09:30a - 09:42a A Direct-Sampling RF Receiver for MOLLER Using the PYNQ RFSoC 4x2 Board
Cameron Poe (presenter), Gup Singh, Yury G Kolomensky, Yuan Mei

09:42a - 09:54a Superconducting Bolometers for the RICOCHET Experiment
Mingyu Li (presenter)

Mon. October 20
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Hilton Chicago, PDR 2, 3rd Floor

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Applications of Nuclear Physics IV: Other

– Hide details

08:30a - 08:42a Direct measurement of neutron-induced charged particle reactions relevant to fusion applications
Panagiotis Gastis (presenter), Chad J Forrest, Sean Kuvin, Hye Young Lee, Udo Schroeder, Arnold K Schwemmlein, Ben Stanley, Jack R Winkelbauer, Mark Yuly

08:42a - 08:54a Investigating the $^{18}O(\alpha,n)^{21}Ne$ Reaction for Applications in Nuclear Safeguards
Rebecca Toomey (presenter), Richard J DeBoer, Steven D. Pain, Michael T Febbraro, Marco T Pigni, Gwenaelle Seymour, Harrison E Sims, Jolie Antonia Cizewski

08:54a - 09:06a National Nuclear Data Center Web Enhancements for Modern Nuclear Data Dissemination
Donnie Mason (presenter)

09:06a - 09:18a Much-needed high-Z proton-spallation cross sections for astrophysics and planetary missions
Priyarshini Ghosh (presenter), John F Krizmanic, Igor V Moskalenko, Mauricio Ayllon Unzueta

09:18a - 09:30a Preparation of Actinide Oxide Thin-Film Targets through Electrospray Solution Combustion Synthesis
Christopher Ballew (presenter), Khachatur Manukyan, Ani Aprahamian

Mon. October 20
08:30a - 10:18a//S12
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Low Energy Nuclear Structure V: Measurements II

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08:30a - 08:42a Lifetime Measurement of the 2^+ Excited State in ^{78}Y: Isospin Breaking Effects in N=Z Nuclei
Cameron Cassells (presenter)

08:42a - 08:54a High-precision g-factor measurement in ^{22}Ne using the TDRIV method
Konstantin Stoychev (presenter), Georgi Georgiev, Andrew E Stuchbery, Joa Ljungvall

08:54a - 09:06a Nuclear structure studies of neutron rich cobalt isotopes
Dustin P Scriven (presenter), James M Allmond, Benjamin Patrick Crider, Sean N Liddick, Robert V.F. Janssens, Andrew E Stuchbery, Akaa Daniel Ayangeakaa, Jessica M Berkman, Konstantinos Bosmpotinis, Sydney Coil, Amelia A Doetsch, Hershini Gadaria, Tawfic Gaballah, J Huffman, Brenden Longfellow, Rebeka Lubna, Mejdi J Mogannam, Brooks Olree, Ellie Ronning, Artemis Spyrou, Artemis Tsantiri, Shane Watters, Zhengyu Xu

09:06a - 09:18a Spectroscopic strengths and 1p1h contributions to the low-lying dipole response in ^{50}Ti
Bryan Kelly (presenter), Lagy Baby, Alex L Conley, Ian Hay, Mark Spieker, Nadia Tsoneva

09:18a - 09:30a Fragmentation of M1 Transition Strengths along the N = 52 Isotones: Lifetime Measurements in ^{90}Sr
Vasil V Karayonchev (presenter), Jan Jolie, Dennis Bittner, Arwin Esmaylzadeh, Christoph Fransen, Mario Ley, Franziskus Spee, Jonathan Williams

09:30a - 09:42a Evolution of shell gaps in the neutron-poor calcium region via invariant-mass spectroscopy beyond the proton dripline
Nicolas Dronchi (presenter), Robert John Charity, Lee G Sobotka, Alex Brown, Dirk W Weisshaar, Alexandra Gade, Kyle W Brown, Walter Reviol, Daniel Bazin, Peter Farris, Ava M Hill, Jing Li, Brenden Longfellow, Daniel M Rhodes, Som Nath Paneru, Stephen Gillespie, Adam K Anthony, Elizabeth Rubino, Sayani Biswas

09:42a - 09:54a Identification of New 0+ States in 148Nd and Evidence for a Double-Octupole Phonon Band
Alex L Conley (presenter), Bryan Kelly, Ian Hay, Lagy Baby, Mark Spieker

09:54a - 10:06a First direct measurement of α decay half-life of ^{104}Te
Ian C Cox (presenter), Robert K. Grzywacz, Thomas T King, Rin Yokoyama, Krzysztof Piotr Rykaczewski, Naoki Fukuda, Shunji Nishimura, Noritake Kitamura, Shintaro Go, Chiara Mazzocchi, James M Allmond, Aleksander Augustyn, Nico Braukman, pierre Brionnet, Arwin Esmaylzadeh, Julia Fischer, Gabrial Garcia de Lorenzo, Shutaro Hanai, Donnie T Hoskins, Nobu Imai, Kay Kolos, Agnieszka Korgul, Ben Kreider, Katsuhisa Nishio, Vi H Phong, Thomas Ruland, Aleksandra Skruch, Zhengyu Xu

10:06a - 10:18a B(E2) Measurements in the Yrast Band of 28Mg: Implications on the N=20 Island of Inversion
Matthew S Martin (presenter), Heinz Asch, Gordon C Ball, Paul E Garrett, Adam B Garnsworthy, Christopher Griffin, Gregory Hackman, Gaute Hagen, Kristina D Launey, Guy Leckenby, Johnson Liang, Rebeka Lubna, Connor Natzke, Chris Pearson, Andrew Redey, Grigor H Sargsyan, Praveen C Srivastava, Krzysztof Starosta, Zhonghao Sun, Carl E Svensson, Sriteja Upadhyayula, Ken van Wieren, Victoria Vedia, Jonathan Williams, Alex Woinoski, Frank Wu, Daniel Yates, Josh Yu

Mon. October 20
10:15a - 10:45a//SB01
Hilton Chicago,
Salon C Pre-Function (Lower Level) & Continental Foyer (Lobby Level)

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Coffee Break VII Break

Mon. October 20
10:30a - 12:18p//T01
Hilton Chicago,
Continental A, Lobby Level

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Advancing Nuclear Science at ATLAS Invited Session

Invited: Jack Henderson, Bernhard Maass, Troy Petersen

– Hide details

10:30a - 11:06a Nuclear Structure with stable and radioactive beams
Invited
Jack Henderson (presenter)

11:06a - 11:42a Laser Spectroscopy at Argonne National Laboratory
Invited
Bernhard Maass (presenter)

11:42a - 12:18p Accelerator Development for ATLAS over the decades
Invited
Troy Petersen (presenter), Michael P Kelly, Tom Reid, Mark Kedzie, Paul Davis, Ben Guilfoyle, Yang Zhou

Mon. October 20
10:30a - 11:54a//T02
Hilton Chicago, Salon A1, Lower Level

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Neutrino Physics IX: Low-Energy Neutrinos III

– Hide details

10:30a - 10:42a Antineutrino Calculations with CONFLUX
Anosh Irani (presenter), Xianyi Zhang, Nathaniel Bowden, Bryce R Littlejohn, Sandra Bogetic, Leendert M Hayen

10:42a - 10:54a Use of Machine Learning Methodologies in the PROSPECT Experiment
Andrea Delgado (presenter), Blaine Heffron

10:54a - 11:06a Potential of ^{73}Ge High-Purity Germanium Detectors for Reactor Neutrino Detection and Nuclear Monitoring
Sanjay Bhattarai (presenter), Dongming Mei

11:06a - 11:18a Recent Progress on the Ton-Scale Liquid Argon CEvNS Detector COH-Ar 750 from the COHERENT Collaboration
Xiaobin Lu (presenter)

11:18a - 11:30a Commissioning of COHERENT D2O Module 2
Gen Li (presenter)

11:30a - 11:42a The Metal Sandwich Detector for Low-Energy ν_e CC Directional Studies
Natalie Jones (presenter)

11:42a - 11:54a NEP-ton: Lead glass neutrino experiments at the SNS
Ana Zaalishvili (presenter)

Mon. October 20
10:30a - 12:18p//T03
Hilton Chicago, Salon A2, Lower Level

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Nuclear Astrophysics IV

– Hide details

10:30a - 10:42a Exploration of Astromers near A=130 with the Canadian Penning Trap
Adrian A. Valverde (presenter), Wendell Misch, Matthew R Mumpower, Biying Liu, William S Porter, Dwaipayan Ray, Maxime Brodeur, Daniel P Burdette, Nathan B Callahan, Alec Cannon, Jason Allan Clark, Aaron T Gallant, Daniel E Hoff, Alicen M Houff, Kay Kolos, Filip G Kondev, Graeme Morgan, Rodney Orford, Caleb B Quick, Fabio Rivero, D. Santiago-Gonzalez, Guy Savard, Nicholas David Scielzo, Kumar S Sharma, Louis Varriano

10:42a - 10:54a High-Precision Measurements of Excited States in 24Mg Using GRETINA and FMA
Kaixin Song (presenter), Richard Leigh Longland, Akaa Daniel Ayangeakaa, Arthur Ernest Champagne, Kelly A. Chipps, William Carr Fox, Samantha Rae Johnson, Robert VF Janssens, Caleb A Marshall, Claus Mueller Gatermann, Marco Siciliano, Darek Seweryniak, Gemma L Wilson

10:54a - 11:06a Improvements to ATHENA for the Total Cross-Section Measurement of $^{15}O(\alpha,p)^{18}F$
William W von Seeger (presenter), Daniel W Bardayan, Patrick D O'Malley, Scott R Carmichael, Chevelle Boomershine, Cade Dembski, David Godos, Pedro Magro

11:06a - 11:18a Probing ^{40}Sc Level Structure to constrain the $^{39}Ca(p,\gamma)^{40}Sc$ for x-ray burst
Muhammad Asif Zubair (presenter), Jaspreet S Randhawa, Daniel W Bardayan, Matthew Hall

11:18a - 11:30a Recurring region for neutron-star observables
Alexander Clevinger (presenter), Veronica Dexheimer, Peter Hammond, Zidu Lin, Milena Albino, Andrew W

Steiner

11:30a - 11:42a Interactions between neutrino wave packets
Michael J Cervia (presenter)

11:42a - 11:54a Nuclear Processes for Dark Matter searches in SuperCDMS
Anthony Nicholas Villano (presenter)

11:54a - 12:06p Aspects of a delicate balance in the force between nucleons
Kenneth H Hicks (presenter)

12:06p - 12:18p Study of the ^{20}Ne(p,γ) reaction rate using GRIFFIN gamma-ray detectors coupled with the DRAGON recoil spectrometer at TRIUMF
Madeleine Hanley (presenter), Frederic Sarazin, Uwe Greife, Giordano K Anele, Abraham Avaa, Daryl Bishop, Robin Coleman, Greg Christian, Sarisha Das, Amanda Edwin, Adam B Garnsworthy, Ethan Geerlof, Shaun Georges, Annabelle L Grimes, Gregory Hackman, Dave Hutcheon, Vasil Karayonchev, Alex Katrusiak, Annika Lennarz, Mallory Loria, Luke Mantle, Ben Marlow, Javier R Murias, Connor Natzke, Silvia Murillo, Konstantin Olchanski, Chris Pearson, Emma Raleigh-Smith, Daniel Rhodes, Serene Rodrigues, William Royer, Chris Ruiz, Vanshika Sharma, Bryerton Shaw, Rashmi Umashankar, Sriteja Upadhyayula, Victoria Vedia, Louis Wagner, Matt Williams, Jonathan Williams

Mon. October 20
10:30a - 12:06p//T04
Hilton Chicago, Salon A3, Lower Level

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Computational Nuclear Physics

– Hide details

10:30a - 10:42a Towards quantum simulations of nonperturbative nuclear physics using neutral atom optical tweezer arrays
Michael N Bishof (presenter), Varun Jorapur, Wanda Lindquist, Peter Mueller, Zeyu Ye

10:42a - 10:54a Event reconstruction analysis on radiation-induced correlated errors in superconducting qubits
Emanuela Celi (presenter)

10:54a - 11:06a Shape transitions in the weak entanglement approximation.
Hayden Curtis Frye (presenter), Calvin W Johnson, Oliver C Gorton

11:06a - 11:18a Quantum Simulation of Renormalized Yukawa Theory
Carter Mulford Gustin (presenter), Kamil Serafin, William Andrew Simon, Alexis P Ralli, Gary R Goldstein, Peter J Love

11:18a - 11:30a Quantum Monte Carlo, Data Oriented Design, and GPUs
Abraham R Flores (presenter), Maria Piarulli, Robert Bruce Wiringa, saori pastore, Alessandro Lovato

11:30a - 11:42a Variational Excited-State Algorithms with Neural Quantum States
Jane M Kim (presenter), Alessandro Lovato, Christian Drischler

11:42a - 11:54a Investigating the crust of neutron stars with neural-network quantum states
Bryce Fore (presenter), Jane M Kim, Morten Hjorth-Jensen, Alessandro Lovato

11:54a - 12:06p Scientific Machine Learning Estimation of Material Thermal Diffusivity from Non-Destructive Evaluation
Hannah G Havel (presenter), Alexander Heifetz

Mon. October 20
10:30a - 12:06p//T05
Hilton Chicago, Salon A4, Lower Level

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Mini-Symposium: Data-driven Discoveries in Nuclear Physics IV

Mini-Symposium

Invited: Simon Andrew Sundberg

— Hide details

10:30a - 11:06a Artificial Neural Network Field Theory in Nuclear Physics
Invited
Simon Andrew Sundberg (presenter), Dick Furnstahl

11:06a - 11:18a Unveiling 3D hadron structure with interpretable and explainable AI methods
Simonetta Liuti (presenter)

11:18a - 11:30a Efficient Emulation of Smooth Functions for Bayesian Inference
Oleh Savchuk (presenter)

11:30a - 11:42a Bayesian Inference of the Landau Parameter G_0' from Joint Gamow-Teller Measurements
Zidu Lin (presenter), Gianluca Colo, Andrew W Steiner

11:42a - 11:54a On the exploration of symbolic regression analysis in nuclear physics.
Joshua Belieu (presenter)

11:54a - 12:06p Learning Implicit Equations from Data
Pablo G Giuliani (presenter), Kyle S Godbey, Edgard L Bonilla Carrasquel, Ante Ravlic, Lauren Jin, Witold Nazarewicz, Illya Bakurov, Nathan Haut, Wolfgang Banzhaf, Diogenes Figueroa, Ingo Tews, Cassandra L Armstrong, Rahul Somasundaram, Brendan T Reed

Mon. October 20
10:30a - 12:18p//T07
Hilton Chicago, Salon C 1 & 2, Lower Level

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Mini-Symposium: Exploiting Hard Probes to Study the Quark-Gluon Plasma II

Mini-Symposium

— Hide details

10:30a - 10:42a Jet modification near the transition between the quark-gluon and hadronic plasma.
Ritoban Datta (presenter)

10:42a - 10:54a sPHENIX Study of Jet Substructure as a Tool for Understanding QGP Modifications
Jennifer L James (presenter)

10:54a - 11:06a Probing the Quark Gluon Plasma Using Machine Learning
Khovesh Ramdin (presenter)

11:06a - 11:18a Fragmentation Function of Photons in JetScape/X-Scape Simulations
McKenna Sleeth (presenter), Rithya Kunnawalkam Elayavalli, Jean-Francois Paquet

11:18a - 11:30a Dijet p_T and azimuthal correlations in Au+Au and p+p collisions with the sPHENIX detector
Tanner A Mengel (presenter)

11:30a - 11:42a Using Jet Axis Decorrelation Versus Jet Pseudorapidity to Study Medium Effects in PbPb collisions with CMS
Nicholas S Barnett (presenter)

11:42a - 11:54a Dielectron measurements in Au+Au collisions at 200 GeV by PHENIX
Iurii Mitrankov (presenter)

11:54a - 12:06p Measurement of inclusive jet production in Au+Au collisions at $\sqrt{s_{\mathrm{NN}}} = 200$ GeV
Michal Svoboda (presenter)

12:06p - 12:18p A simple model to constration jet energy loss distributions for specific event classes in relativistic heavy ion collisions.
Ron Ariel Soltz (presenter)

Mon. October 20
10:30a - 12:06p//T08
Hilton Chicago,
Salon C 3 & 4, Lower Level

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Parity Violation, Electroweak Physics, and Exotic BSM Searches

– Hide details

10:30a - 10:42a DarkLight@ARIEL
Jan Christopher Bernauer (presenter)

10:42a - 10:54a Commissioning the DarkLight Experiment
Ethan W Cline (presenter)

10:54a - 11:06a Simulation and Analysis overview of DarkLight@ARIEL
Win Lin (presenter)

11:06a - 11:18a Kinematic Reconstruction in DarkLight@ARIEL: A Machine Learning Approach
Siddhartha Gupte (presenter)

11:18a - 11:30a Update on the CP Violation search in Positronium (CPVPs) experiment
Paul A Voytas (presenter), Elizabeth A George, Tom-Erik Haugen, Oscar Naviliat-Cuncic

11:30a - 11:42a Exploring new opportunities in hadronic parity nonconservation: using recent NN-interaction models to calculate parity-odd nuclear matrix elements $<M^2>$ from experiment
Danielle C Schaper (presenter), William Michael Snow

11:42a - 11:54a Modeling Region-Dependent Optical Surface Properties in a Modular Trigger Scintillator for the MOLLER Experiment
Afeez Oluwatobi Yusuff (presenter), Rakitha S Beminiwattha, Lasitha Welianga, Shashini Madusha Chandrasena

11:54a - 12:06p Outlook for Helicity Suppressed Transverse Asymmetry Measurements in Bhabha Scattering at Jefferson Lab
David Joseph Mack (presenter)

Mon. October 20
10:30a - 12:06p//T09
Hilton Chicago,
Salon C 5 & 6, Lower Level

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Nuclear Medium Modifications

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10:30a - 10:42a Extracting Drell-Yan Cross Section Ratios at Fermilab's E906 experiment
Harsha Arachchige (presenter), Stephen Pate

10:42a - 10:54a EMC Effect at 11 GeV
Abhyuday Sharda (presenter)

10:54a - 11:06a Preliminary Results on Photoproduced Transparency of the ρ0 Meson at Jefferson Lab Hall D
BHESHA RAJ DEVKOTA (presenter)

11:06a - 11:18a Studies of three-nucleon short-range correlations in the mirror nuclei 3H and 3He
John R Arrington (presenter), Shujie Li

11:18a - 11:30a Study of NN Short Range Correlations in the experiment E12-06-105.
Ramon Ogaz (presenter)

11:30a - 11:42a Inclusive Scattering at 8° and 10° from Nuclei at x >1 in the Quasielastic Regime
Zoe Wolters (presenter)

11:42a - 11:54a 3N SRCs through Inclusive Electron Scattering from XEM2

Jordan Sean O'Kronley (presenter)

11:54a - 12:06p Studying the Structure of Nucleons and Light Ions with ALERT and CLAS12 at Jefferson Lab
Noémie Pilleux (presenter)

Mon. October 20
10:30a - 11:54a//T10
Hilton Chicago, Salon C 7 & 8, Lower Level

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Instrumentation VIII: Software

– Hide details

10:30a - 10:42a Machine Learning Extraction of Tensor Polarization in Spin-1 Observables
Devin Allen Seay (presenter), Dustin Keller

10:42a - 10:54a Machine Learning Approaches for Background Modeling and Dimuon Classification in the SpinQuest Experiment
Forhad Hossain (presenter), Dustin Keller

10:54a - 11:06a Tracking and Machine Learning in MUSE
Kyle J Salamone (presenter)

11:06a - 11:18a Refinement of AI-assisted Track Reconstruction and Particle Identification for CLAS12 ALERT Experiment at Jefferson Lab
Mathieu Ouillon (presenter)

11:18a - 11:30a AI Driven Optimal Control Systems in Nuclear Physics Experiments
Jordan D Roberts (presenter), Dustin M Keller

11:30a - 11:42a Geant4 Simulations of a Tungsten-Copper Faraday Cup for Electron Beam Charge Measurement in Tensor-Polarized Experiments at Jefferson Lab Hall C
Hector Chinchay Espino (presenter)

11:42a - 11:54a Improvements to Data Analysis Tools used in ARIS
Daniel Kaloyanov (presenter), Oleg B. Tarasov, Brad Sherrill

Mon. October 20
10:30a - 11:54a//T12
Hilton Chicago, Continental B, Lobby Level

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Low Energy Nuclear Structure VI: Measurements III

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10:30a - 10:42a Charge Radii and Magnetic Moments of Neutron-Rich Silicon Isotopes
Fabian Camilo Pastrana Cruz (presenter), Ronald Fernando Garcia Ruiz, Alex Brinson, Adam J Dockery, Jonas Karthein, Kristian Koenig, Kei Minamisono, Scott Moroch, Silviu-Marian M Udrescu, Shane Wilkins, Mason D Moenter, Paula Plazas Isanoa, Wilfried Nörtershäuser, Brooke J Rickey, Edwin Pedrozo Penafiel, Jose Miguel Munoz, Maass Bernhard

10:42a - 10:54a In-beam spectroscopy of ^{251}Md
Chris Morse (presenter), Corrigan J Appleton, Roderick M Clark, Dariusz Seweryniak

10:54a - 11:06a Towards measurement of charge radii of neutron-deficient ^{52,53}Ni
Kei Minamisono, Adam J Dockery (presenter), Alex Brinson, Ronald Fernando Garcia Ruiz, Phillip Imgram, Haruka Kakioka, Jonas Karthein, Kristian Koenig, Jeremy D Lantis, Mason D Moenter, Scott Moroch, Patrick Müller, Wilfried Nörtershäuser, Alejandro Ortiz-Cortes, Fabian C Pastrana Cruz, Paula Plazas Isanoa, Laura Renth, Brooke J Rickey, Dominic M Rossi, Silviu-Marian Udrescu, Shane Wilkins

11:06a - 11:18a Nuclear radii and nuclear structure with the MoNA Collaboration
Paul L Gueye (presenter)

11:18a - 11:30a Rotational Bands in ^{249}Md
Corrigan J Appleton (presenter), Roderick M Clark, Christopher Morse, Dariusz Seweryniak

11:30a - 11:42a Prompt spectroscopy above 2- and 4-quasiparticle K-isomers in ^{254}No
Christian M Burns (presenter), Chris Morse, Partha Chowdhury, Roderick M Clark, Dariusz Seweryniak, Kalle Auranen, Birger B Back, Michael P Carpenter, Heather L Crawford, Paul Fallon, Teng Lek Khoo, Benjamin P Kay, Amel Korichi, Filip G Kondev, Torben Lauritsen, David H Potterveld, Gemma L Wilson, Shaofei Zhu

11:42a - 11:54a Probing quadrupole and octupole collectivity in ^{106}Cd via unsafe Coulomb excitation
Desislava N Kalaydjieva (presenter), Marco Siciliano, Magda Zielinska, Tomas R Rodriguez, Paul E Garrett, Jose Javier Valiente-Dobón, Alain Goasduff

Mon. October 20
01:30p - 02:00p//TB01
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Coffee Break VIII Break

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