Hall C Business Meeting

HALL C UB: MARIE BOER, DIPANGKAR DUTTA, BILL HENRY, STEPHEN KAY (SECRETARY), PETE MARKOWITZ, IOANA NICULESCU(CHAIR)

2024 Hall C UB Election Results

Election opened on May 20th, closed on June 20th.

- 4 excellent candidates
- 92 votes (out of 144 listed members)

  - Garth Huber (U Regina)
  - Carlos Yero (CUA)
  - Marie Boer (VTech)
  - Dipangkar Dutta (MSU)
  - Stephen Kay (U. York)
  - Ioana Niculescu (JMU)

Hall C Working groups

Spectrometer Performance and Future Upgrades

Convener: Stephen Kay (U. York)

AI/ML in Hall C

Conveners/contacts: Casey Morean(CUA)

Hall C Futures

Conveners/contacts: Ioana Niculescu (JMU)

Experiment/Theory Interface

Conveners/contacts: Marie Boer (VTech), Christian Weiss (JLab)

Analysis Meetings

(Documents on Analysis)

Date	Time	Title	Location	Topic(s)
04 Jun 2024	13:00 – 14:30	Quarterly Analysis Meeting - VII	Virtual	Analysis
06 Feb 2024	13:00 – 14:45	Quarterly Analysis Meeting - VI	Virtual	Analysis
06 Nov 2023	13:00 – 15:00	Quarterly Analysis Meeting - V	Virtual	Analysis
27 Apr 2023	13:00 – 14:40	Quarterly Analysis Meeting - III	Virtual	12 GeV Experiments Analysis Computing
26 Jan 2023	13:00 – 15:00	Quarterly Analysis Meeting - II	Virtual	12 GeV Experiments Analysis
20 Oct 2022	13:00 –			
23 Feb 2012	10:00 –			

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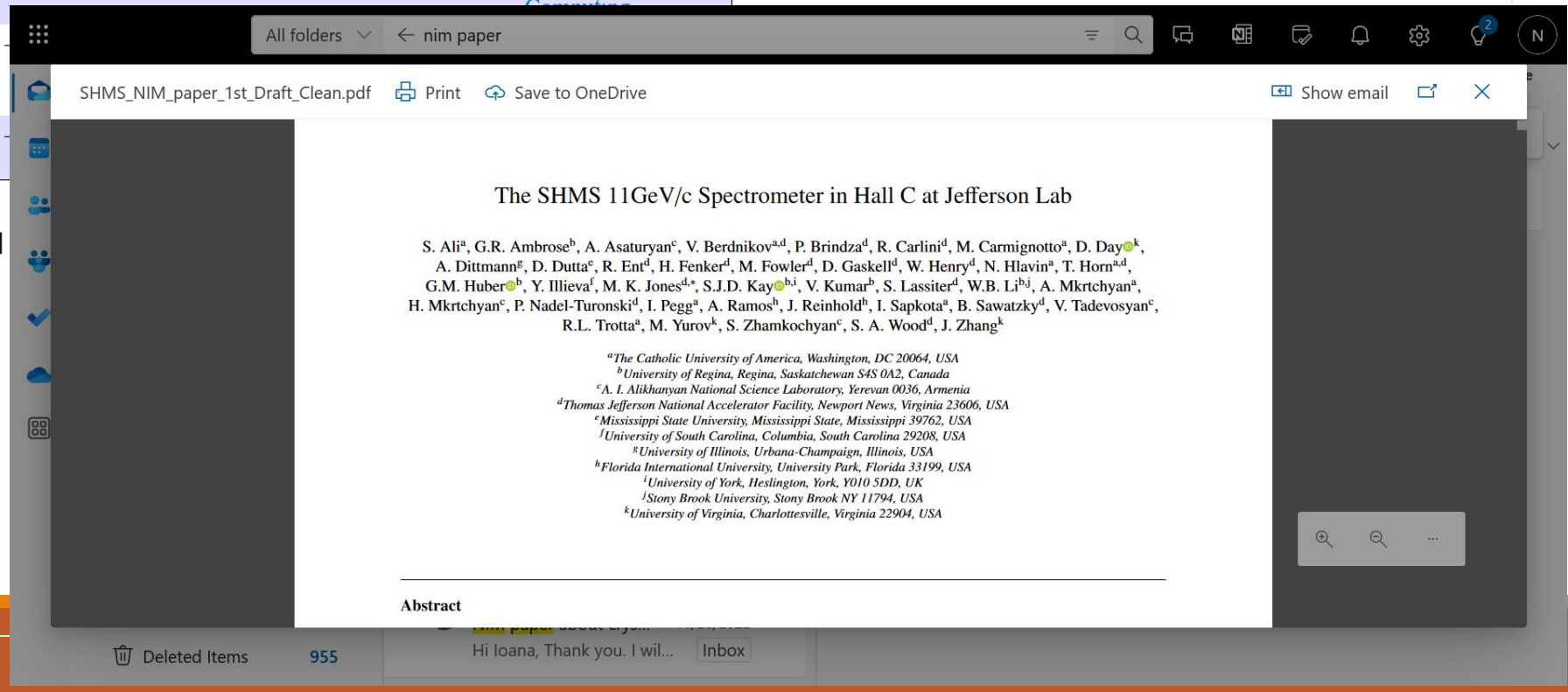
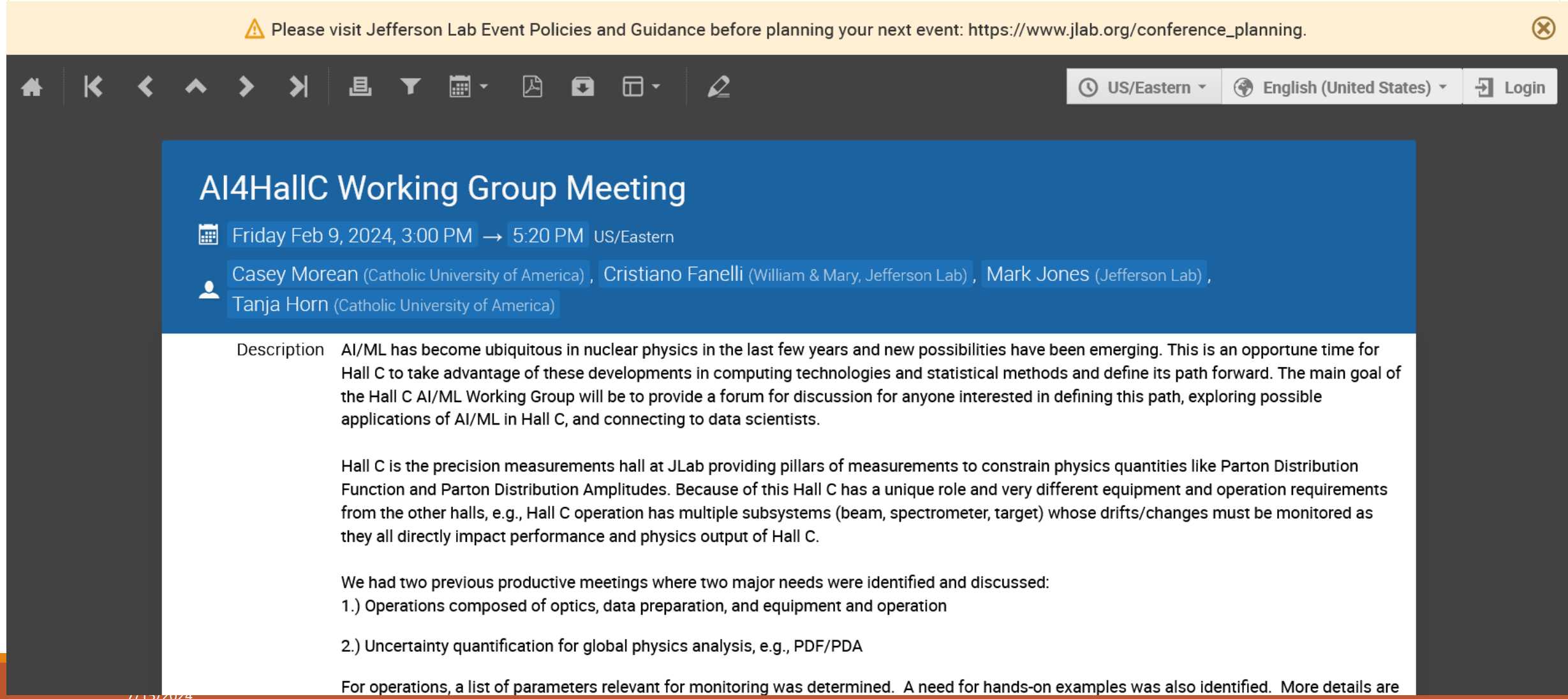


AI/ML Working Group



Recent Publications

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Experimental Hall C

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Closeup of the center of the G0 detector showing the phototubes

Hall C Journal Publications

Publications in Refereed Journals:

Exp #	Title	Reference
E12-10-008	First Measurement of the EMC Effect in 10B and 11B (2207.03850)	Phys. Rev. C 108, 035201 (Sept 2023)
E08-016	The Qweak High Performance LH2 Target (arXiv:2303.07497)	NIM A, Vol 1053,168316
E12-06-107	Constraints on the onset of color transparency from quasi-elastic ^{12}C$(e,e'p)$ up to $Q^2=14.2$~GeV/c^2 (2205.13495)	Phys. Rev. C 108, 025203 (Aug 2023)
E12-16-007	Determining the Proton's Gluonic Gravitational Form Factors (2207.05212)	Nature 615, 813-816 (2023)
	Searching for an Enhanced Signal of the onset of Color Transparency in Baryons with D(e,e'p)n scattering (2209.14400)	Physics 2022, 4(4), 1426-1439
E12-15-001	Measured proton electromagnetic structure deviates from theoretical predictions	Nature volume 611, 265 (2022)
	Performance of photosensors in high rate environment for gas Cherenkov (2011.11769)	JINST 17 P08022
E94-110	Measurements of R = σ_L/σ_T and the Separated Longitudinal and Transverse Structure Functions in the Nucleon Resonance Region (nucl-ex/0410027)	Phys. Rev. C **105**, 065205 (2022)

PhD Theses

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Hall C PhDs & Master's Theses

Author	Title	Date	Citation	Experiment	Advisor(s)
Richard Trotta	Determination of Pion and Kaon Structure Using the Sullivan Process at Moderate to large Fractional Momentum	May 2024		E12-09-011	Tanja Horn (The Catholic University of America)
Casey Morean	Short Range Correlation measurements in the quasielastic region with an 11 GeV beam	December 2023			Nadia Fomin (TENN) Dave Gaskell (JLAB)
Mingyu Chen	Precision Measurement of the Neutron Asymmetry An 1 at Large Bjorken x at 12GeV Jefferson Lab	November 2023		E12-06-110	Jian-Ping Chen (JLAB) Xiaochao Zheng (UVA)
Melanie Rehfuss	Measuring the Neutron Spin Asymmetry A1n in the Valence Quark Region in Hall C at Jefferson Lab	May 2023		E12-06-110	Mark Jones (JLAB)
Andres Vargas Hernandez	Search for Resonant WZ Production in the Fully Leptonic Final State at 13 TeV With the CMS Detector	May 2023			Rolf Ent (JLAB) Tanja Horn (Catholic)
Ruonan Li	MEASUREMENT OF THE GENERALIZED POLARIZABILITIES OF THE PROTON IN VIRTUAL COMPTON SCATTERING	December 2023		E12-15-001	Nikos Sparveris (Temple University) Mark Jones (Jefferson Lab)

Summary

Exciting **12 GeV program** is ongoing in Hall C:

Many analyses are approaching completion.

(see Hall A/C - Recent Results and Research Highlights)

Publications ☺

Working Groups have been established to explore and push forward topics of interest

Great potential for Hall C physics **beyond 12 GeV**

(see Hall A/C - Prospects for Positrons and 20+ GeV)