

Hall A Update

Axel Schmidt

Hall A/C Summer Meeting

July 17, 2020

Hall A publications since last summer

- Probing Few-Body Nuclear Dynamics via ^3H and $^3\text{He}(e, e'p)pn$ Cross-Section Measurements
Phys. Rev. Lett. 124 212501 (2020)
- Measurement of the ^3He spin-structure functions and of neutron (^3He) spin-dependent sum rules at $0.035 \leq Q^2 \leq 0.24 \text{ GeV}^2$
Phys. Lett. B 805 135428 (2020)
- Dispersive corrections in elastic electron-nucleus scattering: an investigation in the intermediate energy regime and their impact on the nuclear matter
Eur. Phys. J. A 56 p. 126 (2020)
- Deeply virtual Compton scattering off the neutron
Nature Physics 16, 191 (2020)

Hall A publications since last summer continued. . .

- Measurement of the cross sections for inclusive electron scattering in the E12-14-012 experiment at Jefferson Lab
Phys. Rev. C 100 054606 (2019)
- Comparing proton momentum distributions in $A = 2$ and 3 nuclei via ^2H , ^3H , and $^3\text{He}(e, e'p)$ measurements
Phys. Lett. B 797 134890 (2019)
- Measurement of the single-spin asymmetry A_y^0 in quasi-elastic $^3\text{He}\uparrow(e, e'n)$ scattering at $0.4 < Q^2 < 1.0 \text{ GeV}^2/c^2$
Phys. Lett. B 797 134875 (2019)

Hall A publications since last summer continued. . .

- The double spin asymmetry of nitrogen in elastic and quasielastic kinematics from a solid ammonia dynamically polarized target
NIM A 946 162701 (2019)
- Density changes in low pressure gas targets for electron scattering experiments
NIM A 940 pp. 351–358 (2019)
- A method to calibrate measurement instruments to optimize the spectrometer optics for experiment E94-107 at JLab
NIM A 944 162543 (2019)

New Hall A PhDs since last summer

- **Jason Bane**, University of Tennessee, MARATHON
- **Reynier Cruz-Torres**, MIT, Tritium ($e, e'p$)
- **Hongxia Dai**, Virginia Tech, $^{12}\text{C}, ^{27}\text{Al}, ^{40}\text{Ar}, ^{48}\text{Ti}(e, e')$
- **Danning Di**, University of Virginia, Super BigBite
- **Tyler Hague**, Kent State University, MARATHON
- **Tyler Kutz**, Stony Brook University, MARATHON
- **Hanjie Liu**, Columbia University, MARATHON
- **Ton Nguyen**, University of Virginia, Small Angle GDH in $^3\vec{\text{He}}$
- **Mike Nycz**, Kent State University, MARATHON
- **Tong Su**, Kent State University, MARATHON

Hall A Coordinating Committee

- Five candidates on this year's ballot
- Votes received from 60 collaborators

- New CC Members (Summer 2020 – Summer 2022)
 - Florian Hauenstein
 - Nathaly Santiesteban

- Continuing CC Members (until Summer 2021)
 - Rachel Montgomery
 - Karl Slifer

- Outgoing CC Members
 - Axel Schmidt
 - Nilanga Liyanage

Collaboration Membership

Remember to validate your information!

https://misportal.jlab.org/mis/apps/physics/hall_a_collaboration_membership



Edit collaboration member below

Member Name	Axel Schmidt
Institution	George Washington University
Position	Faculty
Preferred Email	axelschmidt@gwu.edu
Experimental Involvement (which experiment, which activity...)	E12-14-011, Tritium experiments