

# NuSTEC Outreach Working Group Update



T.Katori (King's College London)

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# Outreach Working Group

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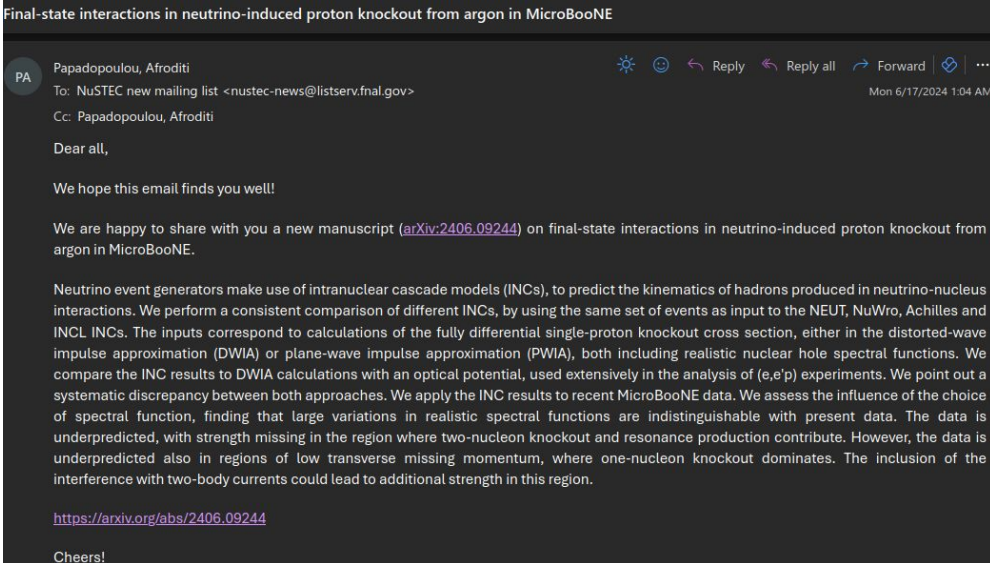
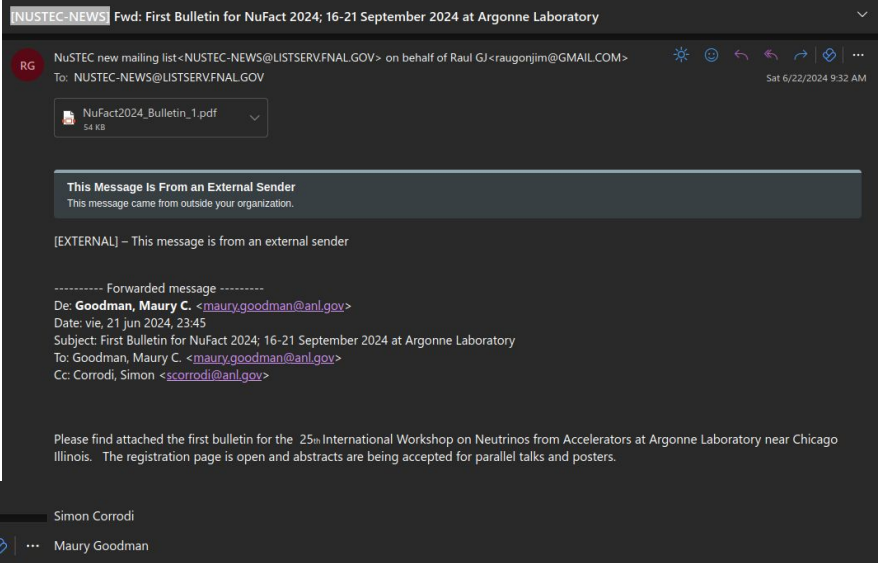
**Conveners:** [Teppeï Katori](#) and [Afroditi Papadopoulou](#)

The outreach group focuses on enhancing NuSTEC's and community-wide neutrino interaction physics activities' outreach to and engagement with the broader neutrino and scientific community as well as with science enthusiasts.

To Follow NuSTEC activities:

- Subscribe to the "NuSTEC News" mailing list  
Send an email to [listserv@fnal.gov](mailto:listserv@fnal.gov)  
Leave the subject line blank  
Type "subscribe nustec-news firstname lastname" (without the quotation marks) in the body  
You can also [view the email archive](#)
- Like and follow [NuSTEC News Facebook page](#)
- Use the [Twitter hashtag #nuxsec](#)

- Listserv: NuSTEC-News (~600 subscribers)
- Advertise nuxsec workshops/schools/conferences
- Advertise NuSTEC WG activities
- Recent results



- NuSTEC News Facebook page

# NUSTEC-News

1.1K likes • 1.2K followers



- Highlight nu-xsec related activities
- Community engagement

**NUSTEC-News**  
 Published by Afroditi Papadopoulou · May 10 ·

New analysis of in-medium changes of nucleon cross sections tested in neutrino-induced reactions with MicroBooNE data and GiBUU predictions!

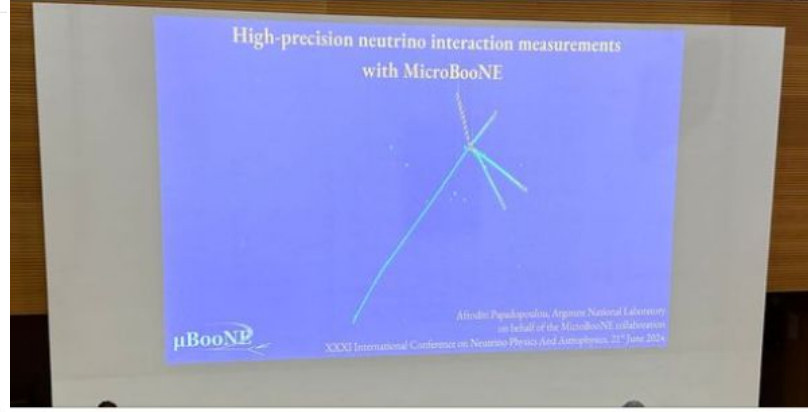


ARXIV.ORG

**In-medium changes of nucleon cross sections tested in neutrino-induced reactions**

**NUSTEC-News**  
 Published by Afroditi Papadopoulou · 4 days ago ·

Second neutrino interaction session at Neutrino2024 with talks from MicroBooNE, ENUBET, e4ν, CEvNS, and COHERENT!  
<https://agenda.infn.it/event/37867/timetable/...>



- Experiment slack (e.g. CEWG seminars)



apapadop 2:33 PM

Tuesday, June 11th

Dear NuSTEC CEWG colleagues,

We will have our next NuSTEC Cross Experiment Working Group (CEWG) Meeting on Thursday, June 13 at 10:00 am US Central Time.

Topic: Measurement of double-differential cross sections for mesonless charged-current muon neutrino interactions on argon with final-state protons using the MicroBooNE detector

Speaker: Steven Gardiner

More information and reading material can be found on the Indico page: <https://indico.fnal.gov/event/64503/>

Zoom link: <https://fnal.zoom.us/my/cherdack?pwd=bkNnREpING96YVJa0HdGdFhUSE11dz09>

For those at Fermilab, we have reserved Gold Mine (WH13SE).

As a reminder, the CEWG presentations are open to all. They are not necessarily intended for announcing new results, but for delving more deeply into techniques used in analyses with an expert audience, so we can understand the full impact and limitations and debate best practices for the sort of details that don't make it into publications and higher-level talks. Discussion is highly encouraged so please bring your questions!

Also, please forward this email to any interested or involved parties, and encourage them to join our mailing list: [nustec\\_cewg@fnal.gov](mailto:nustec_cewg@fnal.gov).

Regards,

Dan, Kirsty and Vishvas

for the CEWG

<https://nustec.fnal.gov/cross-experiment-working-group-cewg/>



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# Cross Experiment Working Group

## Home

NuSTEC News

NuSTEC school

NuInt conference series

Workshops, Conferences and Schools Working Group

Cross Experiment Working Group

Cross Theory and Generators Working Group

Long-term Community Planning Working Group

Outreach Working Group

Publications Working Group

Resources

**Conveners:** Dan Cherdack, Kirsty Duffy and Vishvas Pandey

**Members:** Luca Doria, Afroditi Papadopoulou, Josephine Paton and Prabhjot Singh

The goal of the NuSTEC CEWG is to provide a service to the neutrino-nucleus interaction community by aiding communication between experiments, and building consensus on how to best perform and report cross section measurements.

## 2024

- June 13, 2024: "Measurement of double-differential cross sections for mesonless charged-current muon neutrino interactions on argon with final-state protons using the MicroBooNE detector", Steven Gardiner (Fermilab)
- March 7, 2024: "Measurement of Transverse/Generalized Kinematic Imbalance Variables in MicroBooNE", Andrew Furmanski (University of Minnesota), Afroditi Papadopoulou (Argonne National Laboratory)
- January 18, 2024: "NuHepMC: A Standardized Event Record Format for Neutrino Event Generators", Steven Gardiner (Fermilab), Joshua Isaacson (Fermilab), Luke Pickering (STFC, Rutherford Appleton Laboratory)

| Date (Thursday) | Time (US CT)     | Topic   |
|-----------------|------------------|---|
| Dec 5, 2024     | 10:00 - 11:30 AM | Omnifold  |
| Nov 7, 2024     | 10:00 - 11:30 AM | MicroBooNE data driven constraint   |
| Oct 3, 2024     | 10:00 - 11:30 AM | ACHILLES  |
| Sept 12, 2024   | 10:00 - 11:30 AM | e4v   |
| August 15, 2024 | 10:00 - 11:30 AM | Neutrino-nucleus interaction systematic uncertainties and baseline model for DUNE analyses  |
| June 13, 2024   | 10:00 - 11:30 AM | Measurement of double-differential cross sections for mesonless charged-current muon neutrino interactions on argon with final-state protons using the MicroBooNE |
| March 7, 2024   | 10:00 - 11:30 AM | Measurement of transverse/generalized kinematic imbalance variables in MicroBooNE   |
| Jan 18, 2024    | 10:00 - 11:30 AM | NuHepMC: A Standardized Event Record Format for Neutrino Event Generators   |

Thank you!