NuInt 17: 11th International Workshop on Neutrino-Nucleus Scattering in the Few-GeV Region

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Book of Abstracts

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DIS Ratio measurement from MINERvA

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nubar/nu Ratio measurement at MINERvA

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Hadron production overview

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Future Hadron Production Measurements

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Electron scattering with the Super Scaling Approach

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Short Range Correlations in Heavy Nuclei

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Determination of the axial mass parameter and proton charge radius

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Consider for Talk:

Yes

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R ratio measurements from JLAB

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We present results on the nuclear dependence ratio of R, the longitudinal and transverse structure function ratio. We present results on the difference between $R_A(nucleus)$ and $R_D(deuterium)$ for Carbon (R_C-R_D), Aluminum (R_AL-R_D), Iron (R_F-R_D) and Copper (R_C-R_D) for $Q^2=2$, 3, and 4 GeV² from electron scattering experiments at Jefferson Lab.

Consider for Talk:

Yes

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Measurement of the Spectral Function of 40Ar

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Pion scattering and secondary interactions

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Pion scattering at LAriAT

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Neutrino Pion Production and Other Inelastic Interactions / 103

Pion production at the nucleon level: resonances and continuum

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Pion Production at the Nucleon Level

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Pion production at the nucleon level: from low to high W

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Nuclear Effects in Pion Production/Resonance Region

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Analysis of bubble chamber data on neutrino-induced pion production off the deuteron

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Neutrino charged current pionless cross section measurements from T2K

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Validation of neutrino energy estimation using electron scattering

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Correlations in quasielastic-like neutrino-nucleus interactions

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Weak quasi-elastic production of single hyperons from nucleons and nuclei

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SBND

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High Pressure TPC R&D

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J-PARC Intermediate Water Cherenkov Detector

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ANNIE

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Low Energy Neutrino Experiment Overview

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Supernova Fluxes

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The COHERENT Experiment

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Neutrino measurements relevant to gA quenching

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Low energy argon cross section simulations

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Theoretical Summary

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ARAPUCA light trap for large liquid argon time projection chambers

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ARAPUCA is a totally innovative device for liquid argon scintillation light detection. It is composed of a passive light collector and of active devices. The latters are standard SiPMs that operate at liquid argon temperature, while the passive collector is a photon trap, which allows to collect light with extremely high efficiency. The total detection efficiency of the device can be tuned by modifying the ratio between the area of the active components (SiPM) and that of the optical window. Few arrays of ARAPUCAs will be installed inside the prototype of the Deep Underground Neutrino Experiment - protoDUNE - and their performances will be compared with those of more standard solutions based on guiding bars. The results of the most recent tests of ARAPUCAs in a liquid argon environment, which led to the actual design for the protoDUNE, will be reported together with the proposal of a photon detection system for the Deep Underground Neutrino Experiment based on ARAPUCAs combined with dielectric mirror foils coated by wavelength-shifter.

Consider for Talk:

No

Consider for Poster:

Yes

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R Ratio Measurements from Jlab

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We present results on the nuclear dependence ratio of R, the longitudinal and transverse structure function ratio. We present results on the difference between R_A(nucleus) and R_D(deuterium) for Carbon (R_C-R_D), Aluminum (R_AL-R_D), Iron (R_Fe-R_D) and Copper (R_Cu-R_C) for $Q^2=2$, 3, and 4 GeV 2 from electron scattering experiments at Jefferson Lab.

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Production and radiative decay of heavy neutrinos at the Booster Neutrino Beam

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$\nu_{\nu}\$ CC-0pi Interactions on Lead in the Near Detector of the T2K Experiment

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Constraining The T2K Neutrino Flux with NA61/SHINE Replica Target Data

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NuPRISM detector performance and optimization study

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Measurement of gamma rays from giant resonances of 16O and 12C with application to supernova neutrino detection.

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Investigations of Cross Section Model and Near Detector Choices for DUNE.

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Modeling gamma-rays from the thermal neutron capture on gadolinium based on JPARC-ANNRI data

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Measurement of Neutrino Induced Resonance Pion Production in the NOMAD Detector

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Measurement of Muon Neutrino Quasi-Elastic-Like Scattering in MINERvA at Ev~6 GeV

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Hadron Production Measurements with a Hybrid Emulsion/Electronic Detector

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Identification of nuclear effects in CCQE-like neutrino-hydrocarbon interactions using transverse kinematic imbalances

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Controlling uncertainties in the Short Baseline Neutrino program

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Quasi-elastic neutrino-argon scattering in a CRPA approach

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Techniques for a Combined Neutrino Flux and Cross Section Unfolding

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Investigation of multi-nucleon effects and neutron counting in antineutrino-carbon reactions.

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Progress of the Charged Pion Semi-Inclusive Neutrino Charged-Current Cross Section in NOvA