

Neutrino Interactions for Current and Future Experiments



Report of Contributions

Contribution ID: 1

Type: **not specified**

Opening Address

Monday, 27 October 2025 13:30 (10 minutes)

Presenter: HASHIMOTO, Shoji (KEK)

Session Classification: Session

Contribution ID: 2

Type: **not specified**

Cross-Section Measurements from Neutrino-Nucleus Experiments

Monday, 27 October 2025 13:40 (40 minutes)

Presenter: MCFARLAND, Kevin (Rochester)

Session Classification: Session

Contribution ID: 3

Type: **not specified**

Modeling Neutrino-Nucleus Interaction at T2K & SK: Status and Challenges

Monday, 27 October 2025 14:20 (40 minutes)

Presenter: ABE, Seisho (Tokyo)

Session Classification: Session

Contribution ID: 4

Type: **not specified**

Lattice QCD for Neutrino Oscillation Experiments

Monday, 27 October 2025 15:30 (40 minutes)

Presenter: MEYER, Aaron (LLNL)

Session Classification: Session

Contribution ID: 5

Type: **not specified**

Electroweak responses of light nuclei and toward describing neutrino-nucleus reactions

Monday, 27 October 2025 16:10 (40 minutes)

Presenter: HORIUCHI, Wataru (Osaka Metropolitan)

Session Classification: Session

Contribution ID: 6

Type: **not specified**

Density functional approach for electro-weak nuclear responses

Monday, 27 October 2025 16:50 (40 minutes)

Presenter: YOSHIDA, Kenichi (RCNP, Osaka)

Session Classification: Session

Contribution ID: 7

Type: **not specified**

Nucleon axial structure on large-volume lattice QCD at the physical point

Tuesday, 28 October 2025 10:00 (40 minutes)

Presenter: TSUJI, Ryutaro (KEK)

Session Classification: Session

Contribution ID: 8

Type: **not specified**

Electroweak dynamics in light nuclei and lepton-nucleus scattering

Tuesday, 28 October 2025 10:40 (40 minutes)

Presenter: PASTORE, Saori (Washington)

Session Classification: Session

Contribution ID: 9

Type: **not specified**

Electron for Neutrinos

Tuesday, 28 October 2025 13:00 (40 minutes)

Presenter: BETANCOURT, Minerba (Fermilab)

Session Classification: Session

Contribution ID: **10**

Type: **not specified**

Bound muons as probes of new physics

Tuesday, 28 October 2025 13:40 (40 minutes)

Presenter: UESAKA, Yuichi (Dokkyo)

Session Classification: Session

Contribution ID: 11

Type: **not specified**

Compton amplitudes and nucleon structure from lattice QCD

Tuesday, 28 October 2025 14:20 (40 minutes)

Presenter: ZANOTTI, James (Adelaide)

Session Classification: Session

Contribution ID: 12

Type: **not specified**

Probing very-low-energy p/pi from neutrino-water interaction using nuclear emulsion

Tuesday, 28 October 2025 15:30 (40 minutes)

Presenter: HAN, Seungho (Kyoto)

Session Classification: Session

Contribution ID: 13

Type: **not specified**

Machine Learning Neutrino-Nucleus Cross Sections

Tuesday, 28 October 2025 16:10 (40 minutes)

Presenter: WAGMAN, Michael (Fermilab)

Session Classification: Session

Contribution ID: 14

Type: **not specified**

Toward Reliable Neutrino Reaction Rates for Core-Collapse Supernova Simulations

Tuesday, 28 October 2025 16:50 (40 minutes)

Presenter: TOGASHI, Hajime (Kyoto)

Session Classification: Session

Contribution ID: 15

Type: **not specified**

Radiative corrections to neutrino-nucleon/nucleus cross section

Wednesday, 29 October 2025 10:00 (40 minutes)

Presenter: TOMALAK, Oleksandr (Chinese Academy of Sciences)

Session Classification: Session

Contribution ID: 16

Type: **not specified**

The upgraded T2K near detector, its expected measurements, and future near detectors

Wednesday, 29 October 2025 10:40 (40 minutes)

Presenter: BERNES, Lukas (Tohoku)

Session Classification: Session