Neutrino Scattering: Theory, Experiment, Phenomenology (vSTEP 2026)

Report of Contributions

https://indico.itp.ac.cn/e/458

Contribution ID : **1** Type : **not specified**

Standard Model Anomaly Cancellation and the Minimal Seesaw model

Saturday, 21 November 2026 09:10 (30)

Presenter(s) : HE, Xiao-Gang

Session Classification : session 1: Hanlin B102

Contribution ID : **2** Type : **not specified**

Neutrinos and The Origin of Elements: From Big-Bang to Stellar Explosion

Saturday, 21 November 2026 09:40 (30)

Presenter(s) : KAJINO, Toshitaka

Session Classification : session 1: Hanlin B102

Contribution ID : **3** Type : **not specified**

GeV neutrino interactions for oscilaltion and new physics searches

Saturday, 21 November 2026 10:40 (25)

Presenter(s) : LI, Yufeng

Session Classification : session 2: Hanlin B102

Contribution ID : **4** Type : **not specified**

Recent Progress in Coherent Elastic Neutrino-Nucleus Scattering Experiments

Saturday, 21 November 2026 11:05 (25)

Presenter(s) : YANG, Litao

Session Classification : session 2: Hanlin B102

Contribution ID : **5** Type : **not specified**

First exploitation of baryon β decays through polarization and entanglement

Sunday, 22 November 2026 14:00 (25)

Presenter(s) : LUO, Tao

Session Classification : session 9: Hanlin B102

Contribution ID : **6** Type : **not specified**

Latest results of the JUNO experiment

Saturday, 21 November 2026 14:00 (25)

Presenter(s) : WU, Wenjie

Session Classification : session 3: Hanlin B102

Contribution ID : **7** Type : **not specified**

Neutrino Physics in PandaX

Saturday, 21 November 2026 14:25 (25)

Presenter(s) : LI, Tao

Session Classification : session 3: Hanlin B102

Contribution ID : **8** Type : **not specified**

The neutrino force at all length scales

Sunday, 22 November 2026 16:25 (25)

Presenter(s) : YU, Bingrong

Session Classification : session 10: Hanlin B102

Contribution ID : **9** Type : **not specified**

Lattice Calculations of Neutrinoless Double Beta Decay

Saturday, 21 November 2026 15:35 (25)

Presenter(s) : WANG, Ziyu

Session Classification : session 4: Hanlin B102

Contribution ID : **10** Type : **not specified**

New Modes in Scalar Mediated Two-Neutrino Double Beta Decay

Saturday, 21 November 2026 16:00 (25)

Presenter(s) : ZHANG, Zhong

Session Classification : session 4: Hanlin B102

Contribution ID : **11** Type : **not specified**

Radiative corrections in neutral-current (anti)neutrino-nucleon elastic scattering at GeV energies

Saturday, 21 November 2026 16:25 (25)

Presenter(s) : CHEN, Yi

Session Classification : session 4: Hanlin B102

Contribution ID : **12** Type : **not specified**

Coherent Elastic Neutrino-Nucleus Scattering: From Effective Field Theory to Numerical Calculations

Saturday, 21 November 2026 16:50 (25)

Presenter(s) : TANG, Feng-Jie

Session Classification : session 4: Hanlin B102

Contribution ID : **13** Type : **not specified**

Measuring delta at accelerator experiments using only the neutrino sector

Saturday, 21 November 2026 14:00 (25)

Presenter(s) : CIUFFOLI, Emilio

Session Classification : session 5: Hanlin B331

Contribution ID : **14** Type : **not specified**

Mass Ordering determination after JUNO

Saturday, 21 November 2026 14:50 (25)

Presenter(s) : PINHEIRO, Joao Paulo

Session Classification : session 3: Hanlin B102

Contribution ID : **15** Type : **not specified**

Dark dimension right-handed neutrinos confronted with neutrino oscillation experiments

Saturday, 21 November 2026 14:50 (25)

Presenter(s) : HUANG, Yinyuan

Session Classification : session 5: Hanlin B331

Contribution ID : **16** Type : **not specified**

Majoron-driven spontaneous leptogenesis in type-II seesaw model

Saturday, 21 November 2026 15:35 (25)

Presenter(s) : SUN, Jin

Session Classification : session 6: Hanlin B331

Contribution ID : **17** Type : **not specified**

Leptogenesis Determined By Low Energy Parameters

Saturday, 21 November 2026 16:00 (25)

Presenter(s) : XIAO, Yu-Qi

Session Classification : session 6: Hanlin B331

Contribution ID : **18** Type : **not specified**

Ultralight dark matter in long-baseline accelerator neutrino oscillations

Saturday, 21 November 2026 16:25 (15)

Presenter(s) : LIN, Hai-Xing

Session Classification : session 6: Hanlin B331

Contribution ID : **19** Type : **not specified**

Discovery potential of charged Higgs at future neutrino telescopes and lepton colliders

Saturday, 21 November 2026 16:40 (15)

Presenter(s) : LU, Yi-Song

Session Classification : session 6: Hanlin B331

Contribution ID : **20** Type : **not specified**

Supernova constraints on dark absorption operators

Sunday, 22 November 2026 09:00 (25)

Presenter(s) : ZHANG, Yongchao

Session Classification : session 7: Hanlin B102

Contribution ID : **21** Type : **not specified**

Scientific Objectives of Baikal-HUNT

Sunday, 22 November 2026 09:25 (25)

Presenter(s) : YIN, Pengfei

Session Classification : session 7: Hanlin B102

Contribution ID : **23** Type : **not specified**

Deep Inelastic Scattering at TeV-EeV energies: IceCube & beyond

Sunday, 22 November 2026 10:35 (30)

Presenter(s) : SARKAR, Subir

Session Classification : session 8: Hanlin B102

Contribution ID : **24** Type : **not specified**

Neutrino “Colliders”: from Accelerators to Telescopes

Sunday, 22 November 2026 11:05 (25)

Presenter(s) : XIE, Keping

Session Classification : session 8: Hanlin B102

Contribution ID : **25** Type : **not specified**

Precision Neutrino Interactions Needed for Upcoming High-Energy Neutrino Observations

Sunday, 22 November 2026 11:30 (25)

Presenter(s) : ZHOU, Bei

Session Classification : session 8: Hanlin B102

Contribution ID : **26** Type : **not specified**

Ab initio nuclear theory for neutrino-nucleus scattering

Sunday, 22 November 2026 14:25 (25)

Presenter(s) : HU, Baishan

Session Classification : session 9: Hanlin B102

Contribution ID : **27** Type : **not specified**

Radiative Corrections in Low-Energy Charged-Current Process and Hadronic Uncertainties in Neutrino-Induced Neutral Currents

Sunday, 22 November 2026 14:50 (25)

Presenter(s) : TOMALAK, Oleksandr

Session Classification : session 9: Hanlin B102

Contribution ID : **28** Type : **not specified**

Electroweak Constraints on Nuclear Neutron Distributions and the Low-Energy Weak Mixing Angle

Sunday, 22 November 2026 15:15 (25)

Presenter(s) : HUANG, Xurun

Session Classification : session 9: Hanlin B102

Contribution ID : **29** Type : **not specified**

First Measurement of Solar Neutrinos through Elastic Neutrino-Electron Scattering at the keV Scale

Sunday, 22 November 2026 09:50 (25)

Presenter(s) : YE, Jingqiang

Session Classification : session 7: Hanlin B102

Contribution ID : **30** Type : **not specified**

Trimaximal Mixing Patterns Meet the First JUNO Result

Sunday, 22 November 2026 16:00 (25)

Presenter(s) : ZHANG, Di

Session Classification : session 10: Hanlin B102

Contribution ID : **31** Type : **not specified**

Constraining neutrino self-interactions at colliders

Saturday, 21 November 2026 14:25 (25)

Presenter(s) : LIU, Hongkai

Session Classification : session 5: Hanlin B331

Contribution ID : **32** Type : **not specified**

Neutrino interactions in compact stars

Sunday, 22 November 2026 16:50 (25)

Presenter(s) : LIN, Zidu

Session Classification : session 10: Hanlin B102

Contribution ID : **33** Type : **not specified**

Overview on neutrino event generator

Saturday, 21 November 2026 11:30 (25)

Presenter(s) : ISAACSON, Joshua

Session Classification : session 2: Hanlin B102

Contribution ID : **34** Type : **not specified**

Boosted Dark Matter Directionality in Large Liquid Scintillator Detectors

Saturday, 21 November 2026 16:55 (15)

Presenter(s) : TSE, Samuel S. H.

Session Classification : session 6: Hanlin B331