

Neutrino Scattering: Theory, Experiment, Phenomenology (vSTEP 2024)

Report of Contributions

Contribution ID : 1

Type : **not specified**

Neutrino Theory in the Precision Era

Saturday, 18 May 2024 09:00 (30)

Presenter(s) : 周(ZHOU), 周(Shun)

Session Classification : overview talk 1

Contribution ID : 2

Type : **not specified**

Nuclear weak currents from chiral effective field theory

Saturday, 18 May 2024 10:30 (30)

Presenter(s) : 栢(LONG), 栢(Bingwei)

Session Classification : overview talk 2

Contribution ID : 3

Type : **not specified**

XXXXXXXXXX (Studies on Neutrino-Nucleon Scattering)

Saturday, 18 May 2024 09:30 (30)

Presenter(s) : X(YAO), XX(Deliang)

Session Classification : overview talk 1

Contribution ID : 4

Type : **not specified**

Neutrino interaction cross section: from low to high energies

Saturday, 18 May 2024 11:00 (30)

Presenter(s) : 李(LI), 李(Yufeng)

Session Classification : overview talk 2

Contribution ID : 5

Type : **not specified**

An overview on the recent progress of high-energy neutrino astronomy

Saturday, 18 May 2024 11:30 (30)

Presenter(s) : 徐(XU), 董(Donglian)

Session Classification : overview talk 2

Contribution ID : 6

Type : **not specified**

EFT studies of neutrinoless double beta decay in LR symmetric model

Saturday, 18 May 2024 14:30 (25)

Presenter(s) : 方(FANG), 方(Dongliang)

Session Classification : nuclear weak current

Contribution ID : 7

Type : **not specified**

XXXXXXXXXXXXXXXXXXXX: XXXXX (Nuclear Matrix Elements for
**Neutrinoless Double Beta Decay: Progress and
Prospects)**

Saturday, 18 May 2024 14:00 (30)

Presenter(s) : X(YAO), XX(Jiangming)

Session Classification : nuclear weak current

Contribution ID : 8

Type : **not specified**

Ab initio nuclear physics from the lattice effective field theory

Saturday, 18 May 2024 14:55 (25)

Presenter(s) : (LV), (Bingnan)

Session Classification : nuclear weak current

Contribution ID : 9

Type : **not specified**

Charged current of neutrino in hadronic tau decays

Saturday, 18 May 2024 16:15 (25)

Presenter(s) : 郭(GUO), 郭(Zhihui)

Session Classification : nuclear and hadronic weak current

Contribution ID : 10

Type : **not specified**

$\bar{n} \rightarrow p e^- \bar{\nu}_e \gamma W^{\pm}$ (Contribution from the γW exchange and the recoil effect in neutron beta decay)

Saturday, 18 May 2024 16:40 (25)

Presenter(s) : $\bar{n}$ (ZHOU), $\bar{n}$ (Haiqing)

Session Classification : nuclear and hadronic weak current

Contribution ID : 11

Type : **not specified**

XXXXXXXXXXXXXXXXXXXXXXXXXXXX (Uncertainties on the
computation of nuclear matrix element for
neutrinoless double beta decay)

Saturday, 18 May 2024 17:05 (25)

Presenter(s) : X(ZHU), X(Jingyu)

Session Classification : nuclear and hadronic weak current

Contribution ID : 12

Type : **not specified**

Sterile neutrinos in effective field theory

Saturday, 18 May 2024 17:30 (25)

Presenter(s) : ☒(MA), ☒☒(Xiaodong)

Session Classification : nuclear and hadronic weak current

Contribution ID : 13

Type : **not specified**

The Flavour of High Energy Neutrinos (online)

Sunday, 19 May 2024 08:30 (25)

Presenter(s) : VINCENT, Aaron

Session Classification : high energy neutrino interactions 1

Contribution ID : 14

Type : **not specified**

Multimessenger Astrophysics and Particle Physics Opportunities With Neutrino Detectors

Sunday, 19 May 2024 08:55 (25)

Presenter(s) : ARGÜELLES, Carlos

Session Classification : high energy neutrino interactions 1

Contribution ID : 15

Type : **not specified**

Deep inelastic neutrino scatterings at high and ultra-high energies

Sunday, 19 May 2024 09:20 (25)

Presenter(s) : ☒(GAO), ☒(Jun)

Session Classification : high energy neutrino interactions 2

Contribution ID : 16

Type : not specified

FASER (Studies on collider high energy neutrinos in FASER experiment)

Sunday, 19 May 2024 09:45 (25)

Presenter(s) : 栾(HU), 栾(Zhen)

Session Classification : high energy neutrino interactions 2

Contribution ID : 17

Type : **not specified**

Neutrino CP Phase and New Physics

Sunday, 19 May 2024 10:30 (30)

Presenter(s) : ☒(GE), ☒☒(Shaofeng)

Session Classification : neutrinos and new physics

Contribution ID : **18**

Type : **not specified**

Probing neutrino and nuclear physics with CEvNS

Sunday, 19 May 2024 11:00 (25)

Presenter(s) : ☒(LIAO), ☒(Jiajun)

Session Classification : neutrinos and new physics

Contribution ID : **19**

Type : **not specified**

Ab initio nuclear theory for neutrino-nucleus scattering (online)

Sunday, 19 May 2024 11:25 (25)

Presenter(s) : ☒(HU), ☒☒(Baishan)

Session Classification : neutrinos and new physics

Contribution ID : **20**

Type : **not specified**

Overview on neutrino event generators (online)

Sunday, 19 May 2024 14:00 (30)

Presenter(s) : KATORI, Teppei

Session Classification : neutrino interactions at different scales 1



Contribution ID : 21

Type : **not specified**



Presenter(s) : (WANG), (Zhe)

Session Classification : neutrino interactions at different scales 1

Contribution ID : 22

Type : **not specified**

XXXXXXXXXXXX **(Supernova and atmospheric neutrino
event generators)**

Sunday, 19 May 2024 14:30 (25)

Presenter(s) : X(CHENG), X(Jie)

Session Classification : neutrino interactions at different scales 1

Contribution ID : 23

Type : **not specified**

XXXXXXXXXXXX(Neutrino interactions and deep learning)

Sunday, 19 May 2024 14:55 (25)

Presenter(s) : XX(DUYANG), XX(Hongyue)

Session Classification : neutrino interactions at different scales 1

Contribution ID : 24

Type : **not specified**

**RELICS (Studies on reactor
neutrino coherent elastic scattering in RELICS
experiment)**

Sunday, 19 May 2024 16:05 (25)

Presenter(s) : (LI), (Shengchao)

Session Classification : neutrino interaction at different scales 2

Contribution ID : 25

Type : **not specified**

**☒☒XENONnT☒☒☒☒☒☒☒☒ (Search for Neutrino
Magnetic Moment with XENONnT)**

Sunday, 19 May 2024 16:30 (25)

Presenter(s) : ☒(YE), ☒☒(Jingqiang)

Session Classification : neutrino interaction at different scales 2

Contribution ID : 26

Type : **not specified**

XXXXXXXX (Neutrino detection at Jinping)

Saturday, 18 May 2024 15:20 (25)

Presenter(s) : X(WANG), X(Zhe)

Session Classification : nuclear weak current

Contribution ID : 27

Type : **not specified**

Constraining neutrinophilic interactions at FASERnu

Sunday, 19 May 2024 16:55 (25)

Presenter(s) : ☒(BAI), ☒☒(Weidong)

Session Classification : neutrino interaction at different scales 2

Contribution ID : 28

Type : **not specified**

Exploring Lorentz and CPT violations from cosmic neutrinos

Sunday, 19 May 2024 15:40 (25)

Presenter(s) : 马(MA), 马(Bo-Qiang)

Session Classification : neutrino interaction at different scales 2