

NuPhys2019: Prospects in Neutrino Physics



Report of Contributions

Contribution ID: 1

Type: **not specified**

Astrophysical neutrino theory

Monday 16 December 2019 11:15 (30 minutes)

Presenter: ANDO, Shin'ichiro

Session Classification: Atmospheric and high energy neutrinos, gravitational waves

Contribution ID: 2

Type: **not specified**

Double-Beta Decay Experiments

Monday 16 December 2019 14:15 (30 minutes)

Presenter: DETWILER, Jason

Session Classification: Neutrinoless double beta decay

Contribution ID: 3

Type: **not specified**

Recent results from CUORE

Monday 16 December 2019 14:45 (30 minutes)

Presenter: OUELLET, Jon

Session Classification: Neutrinoless double beta decay

Contribution ID: 4

Type: **not specified**

nuclear matrix element, overview

Monday 16 December 2019 16:15 (30 minutes)

Presenter: SUHONEN, Jouni

Session Classification: Neutrinoless double beta decay

Contribution ID: 5

Type: **not specified**

APPEC summary

Monday 16 December 2019 16:45 (15 minutes)

Presenter: PASCOLI, Silvia (University of Durham (GB))

Session Classification: Neutrinoless double beta decay

Contribution ID: 8

Type: **not specified**

Matter effects in neutrino oscillations

Tuesday 17 December 2019 11:00 (30 minutes)

Presenter: PARKE, Stephen (Fermi National Accelerator Lab. (US))

Session Classification: Short-baseline neutrino oscillation experiments (reactor and SBN)

Contribution ID: 9

Type: **not specified**

Recent results from DANSS

Tuesday 17 December 2019 11:30 (30 minutes)

Presenter: SHITOV, Yury

Session Classification: Short-baseline neutrino oscillation experiments (reactor and SBN)

Contribution ID: **10**

Type: **not specified**

Overview on reactor sterile neutrinos and latest results from STEREO

Tuesday 17 December 2019 12:00 (30 minutes)

Presenter: LHUILLIER, David

Session Classification: Short-baseline neutrino oscillation experiments (reactor and SBN)

Contribution ID: **11**

Type: **not specified**

nuclear theory talk

Tuesday 17 December 2019 14:00 (30 minutes)

Presenter: GANDOLFI, Stefano

Session Classification: Short-baseline neutrino oscillation experiments (reactor and SBN)

Contribution ID: 12

Type: **not specified**

Neutrino cross section measurements

Tuesday 17 December 2019 14:30 (30 minutes)

Presenter: DOLAN, Stephen

Session Classification: Short-baseline neutrino oscillation experiments (reactor and SBN)

Contribution ID: **13**

Type: **not specified**

TBA

Session Classification: Short-baseline neutrino oscillation experiments (reactor and SBN)

Contribution ID: 14

Type: **not specified**

Gravitational wave

Monday 16 December 2019 11:45 (30 minutes)

Presenter: DOOLEY, Kate

Session Classification: Atmospheric and high energy neutrinos, gravitational waves

Contribution ID: 15

Type: **not specified**

Neutrinos and cosmology

Monday 16 December 2019 12:15 (30 minutes)

Presenter: ELEONORA, Di Valentino

Session Classification: Atmospheric and high energy neutrinos, gravitational waves

Contribution ID: 16

Type: **not specified**

atmospheric neutrino physics

Monday 16 December 2019 10:15 (30 minutes)

Presenter: FEDYNITCH, Anatoli (Kavil IPMU, Japan)

Session Classification: Atmospheric and high energy neutrinos, gravitational waves

Contribution ID: 17

Type: **not specified**

Theory overview of neutrinoless double beta decay

Monday 16 December 2019 15:15 (30 minutes)

Presenter: HARZ, Julia

Session Classification: Neutrinoless double beta decay

Contribution ID: **18**

Type: **not specified**

Dark matter and onubb

Session Classification: Neutrinoless double beta decay

Contribution ID: **19**

Type: **not specified**

Flux predictions

Tuesday 17 December 2019 16:00 (30 minutes)

Presenter: BERRYMAN, Jeff

Session Classification: Short-baseline neutrino oscillation experiments (reactor and SBN)

Contribution ID: **20**

Type: **not specified**

Reactor neutrino current status

Tuesday 17 December 2019 16:30 (30 minutes)

Presenter: ZHAN, Liang

Session Classification: Short-baseline neutrino oscillation experiments (reactor and SBN)

Contribution ID: **21**

Type: **not specified**

JUNO

Tuesday 17 December 2019 17:00 (30 minutes)

Presenter: SISTI, Monica

Session Classification: Short-baseline neutrino oscillation experiments (reactor and SBN)

Contribution ID: 22

Type: **not specified**

T2K and T2K-Upgrade

Wednesday 18 December 2019 09:30 (30 minutes)

Presenter: ICHIKAWA, Atsuko

Session Classification: Long-baseline neutrino oscillation experiments (present and future)

Contribution ID: 23

Type: **not specified**

Recent results from NOvA

Wednesday 18 December 2019 10:00 (30 minutes)

Presenter: HEWES, Jeremy

Session Classification: Long-baseline neutrino oscillation experiments (present and future)

Contribution ID: 24

Type: **not specified**

Modular invariance approach to the flavour problem

Wednesday 18 December 2019 10:30 (30 minutes)

Presenter: FERUGLIO, Ferruccio

Session Classification: Long-baseline neutrino oscillation experiments (present and future)

Contribution ID: 25

Type: **not specified**

DUNE

Wednesday 18 December 2019 11:30 (30 minutes)

Presenter: MCCONNEY, Nicola (The University of Manchester)

Session Classification: Long-baseline neutrino oscillation experiments (present and future)

Contribution ID: 26

Type: **not specified**

Hyper-Kamiokande

Wednesday 18 December 2019 12:00 (30 minutes)

Presenter: PLAYFER, Steve

Session Classification: Long-baseline neutrino oscillation experiments (present and future)

Contribution ID: 27

Type: **not specified**

CERN neutrino platform overview

Wednesday 18 December 2019 12:30 (30 minutes)

Presenter: BORDONI, Stefania (Michigan State University (US))

Session Classification: Long-baseline neutrino oscillation experiments (present and future)

Contribution ID: **28**

Type: **not specified**

gadolinium-doped Super-Kamiokande (SK-Gd)

Wednesday 18 December 2019 14:00 (30 minutes)

Presenter: VAGINS, Mark

Session Classification: Supernova and solar neutrinos

Contribution ID: 29

Type: **not specified**

Supernova neutrinos

Wednesday 18 December 2019 14:30 (30 minutes)

Presenter: JANKA, Thomas

Session Classification: Supernova and solar neutrinos

Contribution ID: **30**

Type: **not specified**

Recent results from Borexino

Wednesday 18 December 2019 15:00 (30 minutes)

Presenter: RE, Alessandra Carlotta

Session Classification: Supernova and solar neutrinos

Contribution ID: **31**

Type: **not specified**

Heavy Neutral Lepton Experiment (NA62)

Tuesday 17 December 2019 10:00 (30 minutes)

Presenter: GOUDZOVSKI, Evgueni (University of Birmingham)

Session Classification: Heavy neutral leptons, collider, cosmology

Contribution ID: 32

Type: **not specified**

Heavy Neutral Leptons and Non-Minimal Dark Sectors

Tuesday 17 December 2019 09:30 (30 minutes)

Presenter: HOSTERT, Matheus

Session Classification: Heavy neutral leptons, collider, cosmology

Contribution ID: 35

Type: **not specified**

Recent results from KATRIN

Presenter: PARNO, Diana

Session Classification: Direct neutrino mass measurement

Contribution ID: **38**

Type: **not specified**

Project 8

Presenter: FORMAGGIO, Joseph (Massachusetts Institute of Technology)

Session Classification: Direct neutrino mass measurement

Contribution ID: 39

Type: **not specified**

Prospects in Neutrino Oscillation Experiments

Monday 16 December 2019 09:30 (45 minutes)

Presenter: KAJITA, Takaaki

Session Classification: Prospects in Neutrino Oscillation Experiments

Contribution ID: 40

Type: **not specified**

Recent results from KATRIN

Tuesday 17 December 2019 15:00 (30 minutes)

Presenter: PARNO, Diana (Carnegie Mellon University)

Session Classification: Direct neutrino mass measurement

Contribution ID: 41

Type: **not specified**

New proton decay result

Wednesday 18 December 2019 16:00 (30 minutes)

Presenter: TAKENAKA, Akira

Session Classification: Neutrino mass and beyond

Contribution ID: 42

Type: **not specified**

Project 8

Wednesday 18 December 2019 16:30 (30 minutes)

Presenter: FORMAGGIO, Joseph (Massachusetts Institute of Technology)

Session Classification: Neutrino mass and beyond

Contribution ID: 43

Type: **not specified**

Measurement of ^{144}Ce - ^{144}Pr beta-spectra in order to determine the spectrum of electron antineutrinos and search for heavy neutrino with mass of 0.01-1.0 MeV

Presenter: Prof. DERBIN (ID: E13), Alexander (Petersburg Nuclear Physics Institute NRC KI)

Session Classification: Poster talks

Contribution ID: 44

Type: **not specified**

Neutrino Oscillations and Non-Standard Interactions with KM3NeT-ORCA

Monday 16 December 2019 12:50 (5 minutes)

Presenter: KHAN CHOWDHURY (ID: T2), Nafis Rezwan (IFIC)

Session Classification: Poster talks

Contribution ID: 45

Type: **not specified**

VISOS (VISualisation of OSCillation) - An outreach and research project for neutrino oscillation

Monday 16 December 2019 12:55 (5 minutes)

Presenter: H Aidari (ID: T4), Rasched

Session Classification: Poster talks

Contribution ID: 46

Type: **not specified**

Resolving the discrepancy between KamLAND and solar measurements of Δm_{21}^2 with SNO+

Monday 16 December 2019 13:00 (5 minutes)

Presenter: MORTON-BLAKE (ID: T16), Iwan (University of Oxford)

Session Classification: Poster talks

Contribution ID: 47

Type: **not specified**

Calorimetry Likelihood: A New Particle Identification Method in MicroBooNEr

Monday 16 December 2019 13:05 (5 minutes)

Presenter: FOPPIANI (ID: E9), Nicolo (INFN Sezione di Pisa, Universita' e Scuola Normale Superiore, P)

Session Classification: Poster talks

Contribution ID: 48

Type: **not specified**

Seasonal Variation of Solar Neutrino Flux at Super-Kamiokande

Monday 16 December 2019 13:10 (5 minutes)

Presenter: MOLINA SEDGWICK (ID: T18), Susana (IFIC (CSIC - U. Valencia))

Session Classification: Poster talks

Contribution ID: 49

Type: **not specified**

Cosmic Muon Induced Backgrounds in SNO+

Monday 16 December 2019 17:00 (5 minutes)

Presenter: NOLAN (ID: E1), Lorna

Session Classification: Poster talks

Contribution ID: 50

Type: **not specified**

Cosmic Muon Measurements with MicroBooNE

Monday 16 December 2019 17:05 (5 minutes)

Presenter: VAN DE PONTSEELE (ID: E7), Wouter

Session Classification: Poster talks

Contribution ID: 51

Type: **not specified**

Neutrinos for Non-Proliferation

Monday 16 December 2019 17:10 (5 minutes)

Presenter: KNEALE (ID: E3), Liz (University of Sheffield)

Session Classification: Poster talks

Contribution ID: 52

Type: **not specified**

Design of the Hyper-Kamiokande Outer Detector

Monday 16 December 2019 17:15 (5 minutes)

Presenter: TAANI (ID: E5), Mahdi (University of Edinburgh / Nagoya University)

Session Classification: Poster talks

Contribution ID: 53

Type: **not specified**

Exploring new physics at Planckian scales via neutrino flavour in IceCube's HESE 7.5

Monday 16 December 2019 17:20 (5 minutes)

Presenter: FARRAG (ID: T22), Kareem

Session Classification: Poster talks

Contribution ID: 54

Type: **not specified**

How to monitor your Gd-loaded water Cherenkov detector

Monday 16 December 2019 17:25 (5 minutes)

Presenter: BOSCHI (ID: E24), Tommaso (Queen Mary University of London)

Session Classification: Poster talks

Contribution ID: 55

Type: **not specified**

Studies of Single Transverse Kinematic Variables for Neutrino Interactions on Argon

Tuesday 17 December 2019 12:30 (5 minutes)

Presenter: BATHE-PETERS (ID: E11), Lars

Session Classification: Poster talks

Contribution ID: 56

Type: **not specified**

The hadronic beamline of the ENUBET neutrino beam

Tuesday 17 December 2019 12:35 (5 minutes)

Presenter: CATERINA DELOGU (ID: E15), Claudia

Session Classification: Poster talks

Contribution ID: 57

Type: **not specified**

The instrumented decay tunnel of the ENUBET neutrino beam

Tuesday 17 December 2019 12:40 (5 minutes)

Presenter: BRANCA (ID: E17), Antonio

Session Classification: Poster talks

Contribution ID: 58

Type: **not specified**

Multi-PMT modules for the Hyper-Kamiokande project

Tuesday 17 December 2019 12:45 (5 minutes)

Presenter: MACHADO (ID: E19), Lucas Nascimento

Session Classification: Poster talks

Contribution ID: 59

Type: **not specified**

Baby MIND detector in operation on T2K neutrino beam line

Tuesday 17 December 2019 12:50 (5 minutes)

Presenter: PARSA (ID: E21), Saba

Session Classification: Poster talks

Contribution ID: **60**

Type: **not specified**

Binding Energy Validation Studies in the NEUT Generator

Tuesday 17 December 2019 12:55 (5 minutes)

Presenter: MCELWEE (ID: E23), Jordan

Session Classification: Poster talks

Contribution ID: **61**

Type: **not specified**

COHERENT neutrinos today and tomorrow

Tuesday 17 December 2019 17:30 (5 minutes)

Presenter: ESTEBAN (ID: T12), Ivan

Session Classification: Poster talks

Contribution ID: 62

Type: **not specified**

Conspiracies between Cosmology and Neutrinos in CMB

Tuesday 17 December 2019 17:35 (5 minutes)

Presenter: GHOSHAL (ID: T6), Anish

Session Classification: Poster talks

Contribution ID: **63**

Type: **not specified**

Minimalistic scotogenic scalar dark matter

Presenter: MATURANA (ID: T8), Ivania

Session Classification: Poster talks

Contribution ID: 64

Type: **not specified**

Anomaly-free 2HDM-U(1)s with two generations of right-handed neutrinos

Tuesday 17 December 2019 17:40 (5 minutes)

Presenter: ORDELL (ID: T10), Astrid

Session Classification: Poster talks

Contribution ID: 65

Type: **not specified**

Could the Hubble Tension be Pointing Towards the Neutrino Mass Mechanism?

Tuesday 17 December 2019 17:45 (5 minutes)

Presenter: ESCUDERO (ID: T14), Miguel

Session Classification: Poster talks

Contribution ID: 66

Type: **not specified**

Neutrino physics in slowly rotating BH spacetime and nonlinear electrodynamics

Tuesday 17 December 2019 17:50 (5 minutes)

Presenter: LAMBLASE (ID: T20), Gaetano

Session Classification: Poster talks

Contribution ID: 67

Type: **not specified**

Introduction

Monday 16 December 2019 09:20 (10 minutes)

Session Classification: Introduction

Contribution ID: **68**

Type: **not specified**

Poster Prizes and close-out

Wednesday 18 December 2019 17:00 (30 minutes)

Session Classification: Poster prizes and closing remarks