

International Conference on Neutrinos and Dark Matter (NuDM- 2024)



Report of Contributions

Contribution ID: 1

Type: **not specified**

Prospects for discovering LNV at the LHC and beyond

Presenter: RUIZ, Richard

Session Classification: Neutrino Experimental

Contribution ID: 2

Type: **not specified**

Double weak decay searches in the PandaX-4T experiment

Thursday 12 December 2024 15:30 (25 minutes)

Presenter: WANG, Shaobo

Session Classification: Neutrino Theory

Contribution ID: 3

Type: **not specified**

Lepton masses and mixing in modular groups

Presenter: ABBAS, Mohammed

Session Classification: Neutrino Experimental

Contribution ID: 4

Type: **not specified**

Neutrino physics with liquid scintillator detectors: the case of Borexino and JUNO

Wednesday 11 December 2024 09:00 (25 minutes)

Presenter: LUDHOVA, Livia

Session Classification: Neutrino Experimental

Contribution ID: 5

Type: **not specified**

Dark Dimension cosmology

Wednesday 11 December 2024 11:30 (25 minutes)

Presenter: ANTONIADIS, Ignatios

Session Classification: Dark Matter Theory

Contribution ID: 6

Type: **not specified**

Implications of S_{gr}, A^* on the γ -rays searches of Bino Dark Matter with $(g - 2)_\mu$

Wednesday 11 December 2024 12:00 (25 minutes)

Presenter: CHATTOPADHYAY, Utpal

Session Classification: Dark Matter Theory

Contribution ID: 7

Type: **not specified**

Four scalar fields and $f(Q)$ gravity theory

Wednesday 11 December 2024 12:30 (25 minutes)

Presenter: NASHED, Gamal

Session Classification: Dark Matter Theory

Contribution ID: 8

Type: **not specified**

**Pati-Salam Model in Curved Space-Time and
Einstein-Cartan Gravity**

Wednesday 11 December 2024 16:30 (25 minutes)

Presenter: LI, Desheng

Session Classification: Neutrino Theory

Contribution ID: 9

Type: **not specified**

Exotic Searches at ATLAS

Presenter: TAFIROUT, Reda

Session Classification: Neutrino Theory

Contribution ID: **10**

Type: **not specified**

Exploring coherent elastic neutrino-nucleus scattering with NUCLEUS experiment

Presenter: CASALI, Nicola

Session Classification: Neutrino Theory

Contribution ID: 11

Type: **not specified**

Neutrinoless double beta decay search and dark matter search with KamLAND-Zen

Presenter: HATA, Kazumi

Session Classification: Neutrino Theory

Contribution ID: 12

Type: **not specified**

Pursuing Sources of Cosmic High-energy Neutrinos

Presenter: KIMURA, Shigeo

Session Classification: Neutrino Theory

Contribution ID: 13

Type: **not specified**

Pursuing Sources of Cosmic High-energy Neutrinos

Presenter: KIMURA, Shigeo

Session Classification: Neutrino Experimental

Contribution ID: 14

Type: **not specified**

The KM3NeT detector: first results and perspectives

Wednesday 11 December 2024 09:30 (25 minutes)

Presenter: MARGIOTTA, Annarita

Session Classification: Neutrino Experimental

Contribution ID: 15

Type: **not specified**

Prospects for discovering LNV at the LHC and beyond

Wednesday 11 December 2024 15:00 (25 minutes)

Presenter: RUIZ, Richard

Session Classification: Neutrino Theory

Contribution ID: 16

Type: **not specified**

Non-thermal Dark Matter in U(1)_{B-L} Extension of Inert Doublet Model

Wednesday 11 December 2024 15:30 (25 minutes)

Presenter: BINJONAIID, Maien

Session Classification: Neutrino Theory

Contribution ID: 17

Type: **not specified**

Lepton masses and mixing in modular groups

Wednesday 11 December 2024 16:00 (25 minutes)

Presenter: ABBAS, Mohammed

Session Classification: Neutrino Theory

Contribution ID: **18**

Type: **not specified**

Neutrinos as possible probes for quantum gravity

Wednesday 11 December 2024 13:00 (25 minutes)

Presenter: CLAUDIO TORRI, Marco Danilo

Session Classification: Dark Matter Theory

Contribution ID: **19**

Type: **not specified**

The Darkside-20k experiment

Thursday 12 December 2024 09:00 (25 minutes)

Presenter: ALEJANDRO TABORDA, Oscar

Session Classification: Dark Matter Experimental

Contribution ID: 20

Type: **not specified**

Antimatter Gravitation and Dark Matter searches at the CERN Antiproton

Thursday 12 December 2024 09:30 (25 minutes)

Presenter: GIAMMARCHI, Marco

Session Classification: Dark Matter Experimental

Contribution ID: **21**

Type: **not specified**

LS+fiber module for cosmic ray muon

Thursday 12 December 2024 10:30 (25 minutes)

Presenter: WANG, Zhimin

Session Classification: Dark Matter Experimental

Contribution ID: 22

Type: **not specified**

Dark Matter Interactions in White Dwarfs: A Multi-Energy Approach to Capture Mechanisms

Thursday 12 December 2024 10:00 (25 minutes)

Presenter: HOR, Shihwen

Session Classification: Dark Matter Experimental

Contribution ID: 23

Type: **not specified**

Probing pseudo-Nambu-Goldstone dark matter evading direct detection bounds

Presenter: TOMA, Takashi

Session Classification: Neutrino Experimental

Contribution ID: 24

Type: **not specified**

ASTAROTH: an innovative detector with Silicon Photomultipliers and NaI(Tl) crystals for the direct detection of DM

Presenter: TOSO, Valerio

Session Classification: Neutrino Experimental

Contribution ID: 25

Type: **not specified**

Can teleparallel $f(T)$ models play a bridge between early and late time Universe?

Presenter: SWAGAT MISHRA, Sai

Session Classification: Neutrino Experimental

Contribution ID: 26

Type: **not specified**

Revisiting Clockwork scalar and Fermion Model: A Review of Theoretical Foundations and Experimental Progress

Presenter: GHOSH, Gayatri

Session Classification: Neutrino Experimental

Contribution ID: 27

Type: **not specified**

MicroBooNE Recent Results

Thursday 12 December 2024 15:00 (25 minutes)

Presenter: MARTYNENKO, Sergey

Session Classification: Neutrino Theory

Contribution ID: 28

Type: **not specified**

Light vector mediators at direct detection experiments

Wednesday 11 December 2024 10:30 (25 minutes)

Presenter: DE ROMERI, Valentina

Session Classification: Neutrino Experimental

Contribution ID: 29

Type: **not specified**

Parity solution to the strong CP problem without axion and a unified theory of neutrino mass, dark matter, baryogenesis and inflation

Thursday 12 December 2024 16:00 (25 minutes)

Presenter: MOHAPATRA, Rabindra

Session Classification: Neutrino Theory

Contribution ID: 30

Type: **not specified**

Right handed sneutrino contribution in $B \rightarrow D^{(*)} l \bar{\nu}_l$ decays

Thursday 12 December 2024 16:30 (25 minutes)

Presenter: BOUBAA, Dris

Session Classification: Neutrino Theory

Contribution ID: **31**

Type: **not specified**

Exotic Searches at ATLAS

Friday 13 December 2024 09:00 (25 minutes)

Presenter: TAFIROUT, Reda

Session Classification: Neutrino Experimental

Contribution ID: 32

Type: **not specified**

Exploring coherent elastic neutrino-nucleus scattering with NUCLEUS experiment

Friday 13 December 2024 09:30 (25 minutes)

Presenter: CASALI, Nicola

Session Classification: Neutrino Experimental

Contribution ID: 33

Type: **not specified**

Neutrinoless double beta decay search and dark matter search with KamLAND-Zen

Friday 13 December 2024 10:00 (25 minutes)

Presenter: HATA, Kazumi

Session Classification: Neutrino Experimental

Contribution ID: 34

Type: **not specified**

Matter-antimatter asymmetry study using the European Spallation Source neutrino Super Beam

Saturday 14 December 2024 13:00 (25 minutes)

Presenter: DRACOS, M.

Session Classification: Dark Matter Experimental

Contribution ID: 35

Type: **not specified**

Probing Neutrino Charge Radii with Coherent Elastic Solar Neutrino-Nucleus Scattering

Presenter: BAŞLI, Onur

Session Classification: Neutrino Theory

Contribution ID: 36

Type: **not specified**

Development of calibration method and performance evaluation for KamLAND2 prototype detector

Presenter: NAKANE, Jun

Session Classification: Neutrino Theory

Contribution ID: 37

Type: **not specified**

Manifestations of Quark-less Baryonium Dark Matter

Presenter: PISKOUNOVA, Olga

Session Classification: Neutrino Theory

Contribution ID: 38

Type: **not specified**

Feasibility of dark matter admixed neutron star based on recent observational constraints

Presenter: THAKUR, Prashant

Session Classification: Neutrino Theory

Contribution ID: 39

Type: **not specified**

Probing Neutrino Charge Radii with Coherent Elastic Solar Neutrino-Nucleus Scattering

Friday 13 December 2024 14:30 (25 minutes)

Presenter: BAŞLI, Onur

Session Classification: Neutrino Experimental

Contribution ID: 40

Type: **not specified**

Development of calibration method and performance evaluation for KamLAND2 prototype detector

Friday 13 December 2024 10:30 (25 minutes)

Presenter: NAKANE, Jun

Session Classification: Neutrino Experimental

Contribution ID: 41

Type: **not specified**

Manifestations of Quark-less Baryonium Dark Matter

Saturday 14 December 2024 15:30 (25 minutes)

Presenter: PISKOUNOVA, Olga

Session Classification: Dark Matter Experimental

Contribution ID: 42

Type: **not specified**

Feasibility of dark matter admixed neutron star based on recent observational constraints

Saturday 14 December 2024 09:00 (25 minutes)

Presenter: THAKUR, Prashant

Session Classification: Neutrino Theory

Contribution ID: 43

Type: **not specified**

Dark sector states —current searches and prospects

Saturday 14 December 2024 11:30 (25 minutes)

Presenter: ASSAMAGAN, Ketevi

Session Classification: Dark Matter Experimental

Contribution ID: 44

Type: **not specified**

Exploring Dark Matter and Neutrinos with XENONnT

Saturday 14 December 2024 12:00 (25 minutes)

Presenter: SINGH, Riya

Session Classification: Dark Matter Experimental

Contribution ID: 45

Type: **not specified**

The search for low-mass dark matter via nuclear recoil in the SuperCDMS SNOLAB experiment

Saturday 14 December 2024 12:30 (25 minutes)

Presenter: SADEK, David

Session Classification: Dark Matter Experimental

Contribution ID: 46

Type: **not specified**

Reheating via non-Abelian, strongly self-interacting dark sectors

Saturday 14 December 2024 09:30 (25 minutes)

Presenter: BIONDINI, Simone

Session Classification: Neutrino Theory

Contribution ID: 47

Type: **not specified**

Dark sector searches at Belle II

Saturday 14 December 2024 16:00 (25 minutes)

Presenter: CORONA, Luigi

Session Classification: Dark Matter Experimental

Contribution ID: 48

Type: **not specified**

In Search of Dark Matter with MeerKAT Radio Telescope: Insights from Reticulum II dSph

Saturday 14 December 2024 16:30 (25 minutes)

Presenter: SEMANE, Shibre

Session Classification: Dark Matter Experimental

Contribution ID: 49

Type: **not specified**

The di-Higgs Production at LHC@14 In The Hidden SU(2) Vector Dark Matter Model

Saturday 14 December 2024 10:00 (25 minutes)

Presenter: NABIL, Baouche

Session Classification: Neutrino Theory

Contribution ID: 50

Type: **not specified**

Probing pseudo-nambu-Goldstone dark matter evading direct detection bounds

Thursday 12 December 2024 11:30 (25 minutes)

Presenter: TOMA, Takashi

Session Classification: Dark Matter Theory

Contribution ID: 51

Type: **not specified**

ASTAROTH: an innovative detector with Silicon Photomultipliers and NaI(Tl) crystals for the direct detection of DM

Thursday 12 December 2024 12:00 (25 minutes)

Presenter: TOSO, Valerio

Session Classification: Dark Matter Theory

Contribution ID: 53

Type: **not specified**

Can teleparallel $f(T)$ models play a bridge between early and late time Universe?

Thursday 12 December 2024 12:30 (25 minutes)

Presenter: SWAGAT MISHRA, Sai

Session Classification: Dark Matter Theory

Contribution ID: 60

Type: **not specified**

Revisiting Clockwork scalar and Fermion Model: A Review of Theoretical Foundations and Experimental Progress

Thursday 12 December 2024 13:00 (25 minutes)

Presenter: GHOSH, Gayatri

Session Classification: Dark Matter Theory

Contribution ID: **61**

Type: **not specified**

Dark matter at the LHC with the CMS

Saturday 14 December 2024 15:00 (25 minutes)

Presenter: SAVINA, Mariia (Joint Institute for Nuclear Research (RU))

Session Classification: Dark Matter Experimental

Contribution ID: **62**

Type: **not specified**

Dark matter and new physics searches in first KM3NeT data

Wednesday 11 December 2024 10:00 (25 minutes)

Presenter: REBECCA GOZZINI, Sara

Session Classification: Neutrino Experimental

Contribution ID: 65

Type: **not specified**

Enhancing $0\nu 2\beta$ Detection: The CROSS demonstrator's design and sensitivity goals

Friday 13 December 2024 12:30 (25 minutes)

Presenter: CINTAS, David

Session Classification: Neutrino Experimental

Contribution ID: 69

Type: **not specified**

Pursuing Sources of Cosmic High-energy Neutrinos

Friday 13 December 2024 13:00 (25 minutes)

Presenter: KIMURA, Shigeo

Session Classification: Neutrino Experimental

Contribution ID: 70

Type: **not specified**

Searching for Neutrinoless Double Beta Decay with KamLAND-Zen: Latest Results and Future Prospects

Friday 13 December 2024 13:30 (25 minutes)

Presenter: PENEK, Ömer

Session Classification: Neutrino Experimental

Contribution ID: 71

Type: **not specified**

Decade work results from the NOvA experiment

Friday 13 December 2024 11:00 (25 minutes)

Presenter: SAMOYLOV, Oleg (Joint Institute for Nuclear Research (RU))

Session Classification: Neutrino Experimental

Contribution ID: 72

Type: **not specified**

Probing the Sterile Neutrino Dipole Portal with Coherent Elastic Solar Neutrino- Nucleus Scattering

Friday 13 December 2024 14:00 (25 minutes)

Presenter: MUSTAMIN, M

Session Classification: Neutrino Experimental

Contribution ID: 73

Type: **not specified**

The Inert Doublet Model and Extensions: Insights into Dark Matter and Electroweak Physics

Saturday 14 December 2024 10:30 (25 minutes)

Presenter: OKBA, Bradji

Session Classification: Neutrino Theory

Contribution ID: 74

Type: **not specified**

Partial $\mu - \tau$ symmetry from kinetic normalization

Friday 13 December 2024 15:00 (25 minutes)

Presenter: CHAMOUN, Nidal

Session Classification: Neutrino Experimental