Session Program

18-20 Dec 2023



NuPhys2023: Prospects in Neutrino Physics

Poster Talks

King's College London King's College London, Strand, London, WC2R 2LS

Monday 18 December



12:30-12:33

A Magnetised High-Pressure Gaseous Argon TPC for the DUNE Near Detector

Speaker

Francisco Martinez Lopez

12:33-12:36

The ASTAROTH project: an innovative light detector based on Silicon PhotoMultipliers for rare event physics and its applications in dark matter direct detection experiments

Speaker

Valerio Toso

12:36-12:39

Towards the detection of ultra-low energetic neutrinos with plasma metamaterials

Speaker

carlo Alfisi

12:40

17:30

Poster Talks

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17:30-17:33

Atmospheric Background Reduction using CNNs in DSNB Searches at Super-Kamiokande Gd

Speaker

Soniya Samani

17:33-17:36

Modelling Cosmic Ray Muon Spallation for a Hyper-Kamiokande DSNB Analysis

Speaker

Jack Fannon

17:36-17:39 Multiperspective neutrino studies

Speaker

Sara Rodríguez Cabo

17:39-17:42 Pseudo-Dirac neutrinos at JUNO

Speaker

JACK, DENNIS FRANKLIN

17:42-17:45 Hunting for the cosmic neutrino background

Speaker

Jack Shergold

17:45-17:48

Second leptogenesis: a source of large discrepancy between baryon and lepton asymmetries

Speaker Kazuki Enomoto

17:48-17:51

Probing the Nature of Heavy Neutral Leptons in Direct Searches and Neutrinoless Double Beta Decay Speaker

Zhong Zhang

17:51-17:54

A new era of collider neutrino physics at the LHC: the SND@LHC experiment

Speaker

Riddhi Biswas

17:54-17:57

Flavour measurements from track events at the IceCube Neutrino Observatory

Speaker

Rogan Clark

17:57-18:00

High-energy neutrinos, magnetic moment and the strong magnetic field: Impact on the Flavor Composition and Glashow Events

Speaker

Ting Cheng

18:00-18:03 Electric Charge Breaking in Neutrino Physics

Speaker

Manuel Salewski

18:03-18:06 Neutrinos as possible probes for quantum gravity

Speaker

MARCO DANILO CLAUDIO TORRI

18:06-18:09

Reconstruction of Neutral Final-State Particles in Neutrino-Argon Interactions

Speaker

Margot MacMahon

18:09-18:12

Cryogenic power over fiber for fundamental and applied physics at Milano-Bicocca: the Cryo-PoF project

Speaker

Marta Torti

18:12-18:15 The front-end electronics of the DUNE Photon Detection System

Speaker

Esteban Javier Cristaldo Morales

18:15-18:18 Alpha spectrometry measurements for low-background experiments

Speaker

Milena Czubak

18:18-18:21

BUTTON (Boulby Underground Technology Testbed Observing Neutrinos) experiment

Speaker

James William Gooding

Tuesday 19 December

17:20

Poster Talks

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17:20-17:23

Updated Treatment of Near Detector Systematics Uncertainties for the T2K 2024 **Oscillation Analysis**

Speaker

Ewan Miller

17:23-17:26

Preparing for the Precision Era: New Ways of Presenting T2K 2020 Oscillation Results

Speaker

Marvin Pfaff

17:26-17:29

Appearance of Tau Neutrinos in the Flux of Atmospheric Neutrinos at Super-Kamiokande

Speaker

Maitrayee Mandal

17:29-17:32 Non-Unitary Atmospheric Neutrino Mixing At Super-Kamiokande

Speaker

Rory Ramsden

17:32-17:35

An overview of the current status of the Hyper-Kamiokande Experiment

Speakers

George Burton, Sania Lewis

17:35-17:38 Probing Neutrino Oscillations with Reactor Antineutrinos in JUNO

Speaker

Vanessa Cerrone

17:38-17:41 Translating Near to Far Detector for DUNE Oscillation Analysis

Speaker

Alexander J Wilkinson

17:41-17:44 SoLAr: a novel technology for solar neutrino detection

Speaker

Guilherme Ruiz Ferreira

17:44-17:47 Measuring Solar Neutrino Oscillations in the SNO+ Detector

Speaker Daniel Cookman

17:47-17:50

Investigating the use of the expansion formalism when modelling axial formfactors in CCQE

Speaker

Abi Peake

17:50-17:53

Neutrino energy scale measurements for final sate interaction models in DUNE using advanced computing

Speaker

Aleena Rafique

17:53-17:56 2p-2h Cross Section Systematics in DUNE

Speaker

Lars Ludwig Hans Bathe-Peters

17:56-17:59

Differentiable nuclear deexcitation simulation for low energy neutrino physics: What, Why and How.

Speaker

Pablo Samuel Barham Alzas

17:59-18:02 MINERvA Data Preservation: Enabling Muon Fuzz Analysis

Speaker

Akeem Hart

18:02