

# WIN 25



## Report of Contributions

Contribution ID: 1

Type: **not specified**

## Practical Information

**Presenter:** ASQUITH, Lily

Contribution ID: 2

Type: **not specified**

## Practical Information

*Monday 9 June 2025 09:05 (10 minutes)*

**Session Classification:** Special

Contribution ID: 3

Type: **not specified**

## **Welcome from the Dean of Science, Engineering, and Medicine**

*Monday 9 June 2025 09:00 (5 minutes)*

**Session Classification:** Special

Contribution ID: 4

Type: **not specified**

## About WIN

*Monday 9 June 2025 09:15 (10 minutes)*

**Session Classification:** Special

Contribution ID: 5

Type: **not specified**

## Plenary Placeholder

**Session Classification:** Special

Contribution ID: 6

Type: **not specified**

## Plenary Placeholder

**Session Classification:** Special

Contribution ID: 7

Type: **not specified**

## Latest results from the g-2 experiment

**Presenter:** PRICE, Joe



Contribution ID: 8

Type: **not specified**

## Latest results from the g-2 experiment

*Monday 9 June 2025 09:30 (30 minutes)*

**Presenter:** PRICE, Joe

**Session Classification:** Plenaries

Contribution ID: 9

Type: **not specified**

## **g-2 theory**

*Monday 9 June 2025 10:00 (30 minutes)*

**Presenter:** LEHNER, Christoph (University of Regensburg & BNL)

**Session Classification:** Plenaries

Contribution ID: **10**

Type: **not specified**

## **Gravitational waves: an overview**

*Monday 9 June 2025 11:00 (30 minutes)*

**Presenter:** CARDOSO, Vitor

**Session Classification:** Plenaries

Contribution ID: 11

Type: **not specified**

# Dark Matter Direct Detection: Global Progress and Prospects

*Monday 9 June 2025 11:30 (30 minutes)***Presenter:** PALLADINO, Kimberly (University of Oxford)**Session Classification:** Plenaries

Contribution ID: 12

Type: **not specified**

# High Energy Astrophysical Neutrinos: An Overview

*Monday 9 June 2025 12:00 (30 minutes)***Presenter:** AHLERS, Markus (Niels Bohr International Academy, Niels Bohr Institute)**Session Classification:** Plenaries

Contribution ID: 13

Type: **not specified**

## Experimental highlights on mW, sin2ThetaEff, and alphaS from Z->ll

*Monday 9 June 2025 14:00 (30 minutes)***Presenter:** BALLI, Fabrice (Université Paris-Saclay (FR))**Session Classification:** Plenaries

Contribution ID: 14

Type: **not specified**

## Higgs Couplings: Theory

*Monday 9 June 2025 14:30 (30 minutes)*

**Presenters:** CHIESA, Mauro (INFN Sezione di Pavia); CHIESA, Mauro (INFN, Pavia)

**Session Classification:** Plenaries

Contribution ID: 15

Type: **not specified**

# Higgs Cross Sections measurements by ATLAS and CMS

*Monday 9 June 2025 15:30 (30 minutes)*

**Presenter:** CAPPATI, Alessandra

**Session Classification:** Plenaries



Contribution ID: **16**

Type: **not specified**

## Neutrinoless Double Beta Decay

*Monday 9 June 2025 16:00 (30 minutes)*

**Presenter:** HAN, Ke (Shanghai Jiao Tong University)

**Session Classification:** Plenaries

Contribution ID: 17

Type: **not specified**

## Short Baseline Neutrinos Overview

*Monday 9 June 2025 16:30 (30 minutes)*

**Presenter:** EVANS, Justin (University of Manchester (UK))

**Session Classification:** Plenaries

Contribution ID: **18**

Type: **not specified**

## CEvNS Overview

*Tuesday 10 June 2025 10:00 (30 minutes)*

**Presenter:** PAPOULIAS, Dimitrios

**Session Classification:** Plenaries

Contribution ID: **19**

Type: **not specified**

## Muon Colliders R&D

*Tuesday 10 June 2025 09:00 (30 minutes)*

**Presenter:** SCHULTE, Daniel (CERN)

**Session Classification:** Plenaries

Contribution ID: **20**

Type: **not specified**

## Linear Colliders

*Tuesday 10 June 2025 09:30 (30 minutes)*

**Presenter:** ROBSON, Aidan (University of Glasgow (GB))

**Session Classification:** Plenaries

Contribution ID: 21

Type: **not specified**

## **Sustainable Research**

**Presenter:** THRESHER, Anne

**Session Classification:** Plenaries

Contribution ID: 22

Type: **not specified**

## Wakefield Acceleration

*Wednesday 11 June 2025 09:00 (30 minutes)*

**Presenter:** WING, Matthew (University College London)

**Session Classification:** Plenaries

Contribution ID: 23

Type: **not specified**

## Circular Colliders

*Wednesday 11 June 2025 09:30 (30 minutes)*

**Presenter:** BUTTERWORTH, Jonathan (UCL)

**Session Classification:** Plenaries



Contribution ID: 24

Type: **not specified**

# Diversity and Outreach in High Energy Physics

*Wednesday 11 June 2025 10:00 (30 minutes)***Presenter:** SHAW, Kate (University of Sussex (GB))**Session Classification:** Plenaries

Contribution ID: 25

Type: **not specified**

## Kaon, Tau, and Charm Factories

*Thursday 12 June 2025 09:00 (30 minutes)*

**Presenter:** MARCHEVSKI, Radoslav (École Polytechnique Fédérale de Lausanne (EPFL))

**Session Classification:** Plenaries

Contribution ID: 26

Type: **not specified**

## Charm Experimental Results

*Thursday 12 June 2025 09:30 (30 minutes)*

**Presenter:** GERSABECK, Evelina Mihova (University of Freiburg (DE))

**Session Classification:** Plenaries

Contribution ID: 27

Type: **not specified**

# The African School of Physics

*Friday 13 June 2025 14:30 (30 minutes)*

**Presenter:** DARVE, Christine (ESS - European Spallation Source (SE))

**Session Classification:** Plenaries

Contribution ID: 28

Type: **not specified**

## Long Baseline Neutrino Experiments

*Friday 13 June 2025 09:30 (30 minutes)*

**Presenter:** VAHLE, Patricia

**Session Classification:** Plenaries

Contribution ID: 29

Type: **not specified**

## Neutrino Applications

*Friday 13 June 2025 10:00 (30 minutes)*

**Presenter:** KNEALE, Liz (University of Sheffield)

**Session Classification:** Plenaries

Contribution ID: **30**

Type: **not specified**

## Neutrino cosmology with three years of DESI data

*Friday 13 June 2025 11:00 (30 minutes)*

**Presenter:** ELBERS, Willem

**Session Classification:** Plenaries

Contribution ID: **31**

Type: **not specified**

## Forward Neutrinos

*Friday 13 June 2025 11:30 (30 minutes)*

**Presenter:** BARR, Alan (University of Oxford (GB))

**Session Classification:** Plenaries



Contribution ID: 32

Type: **not specified**

## Flavour & Precision Forecast

*Friday 13 June 2025 12:00 (30 minutes)*

**Presenter:** GRELJO, Admir (Universitaet Basel (CH))

**Session Classification:** Plenaries

Contribution ID: 33

Type: **not specified**

## Beyond the Standard Model

*Thursday 12 June 2025 10:00 (30 minutes)*

**Presenter:** YOU, Tevong (King's College London)

**Session Classification:** Plenaries

Contribution ID: 34

Type: **not specified**

## Quantum Tech for Particle Physics

*Friday 13 June 2025 13:30 (30 minutes)*

**Presenter:** SAAKYAN, Ruben (UCL)

**Session Classification:** Plenaries

Contribution ID: 35

Type: **not specified**

## Neutrinos Forecast

*Friday 13 June 2025 14:00 (30 minutes)*

**Presenter:** MESSIER, Mark

**Session Classification:** Plenaries

Contribution ID: 36

Type: **not specified**

## Highlights from the European Strategy

*Friday 13 June 2025 15:30 (30 minutes)*

**Presenter:** TALIERCIO, Angela (Northwestern University (US))

**Session Classification:** Plenaries

Contribution ID: 37

Type: **not specified**

## Astroparticle Forecast

*Friday 13 June 2025 16:00 (30 minutes)*

**Presenter:** SALA, Filippo

**Session Classification:** Plenaries

Contribution ID: 38

Type: **not specified**

## Water-based quantum dots liquid scintillator for neutrino physics

*Tuesday 10 June 2025 11:00 (15 minutes)***Presenter:** KATORI, Teppei (King's College London)**Session Classification:** Special

Contribution ID: 39

Type: **not specified**

## **Detector Calibration for the Short-Baseline Near Detector at Fermilab**

*Tuesday 10 June 2025 11:15 (15 minutes)*

**Presenter:** TUNG, Lynn

**Session Classification:** Special



Contribution ID: 40

Type: **not specified**

## **Research activities for a next generation neutrino mass measurement: KATRIN++**

*Tuesday 10 June 2025 11:30 (15 minutes)*

**Presenter:** MARSTELLER, Alexander

**Session Classification:** Special

Contribution ID: 41

Type: **not specified**

# First Cavity Cyclotron Radiation Emission Spectrometer for the Project 8 neutrino mass experiment

*Tuesday 10 June 2025 11:45 (15 minutes)***Presenter:** STACHURSKA, Juliana (Massachusetts Institute of Technology, USA)**Session Classification:** Special

Contribution ID: 42

Type: **not specified**

## The NOvA Test Beam Program

*Tuesday 10 June 2025 12:00 (15 minutes)*

**Presenter:** BANNISTER, Emerson

**Session Classification:** Special

Contribution ID: 43

Type: **not specified**

# Measurements of Higgs-fermion interactions at ATLAS+CMS

*Tuesday 10 June 2025 11:00 (18 minutes)***Presenter:** LAI, Nicolò**Session Classification:** Electroweak

Contribution ID: 44

Type: **not specified**

# Higgs CP properties and EFT measurements from ATLAS+CMS

*Tuesday 10 June 2025 11:18 (18 minutes)***Presenter:** LU, Yun-Ju**Session Classification:** Electroweak

Contribution ID: 45

Type: **not specified**

# HH searches and Higgs-self couplings measurements by ATLAS+CMS

*Tuesday 10 June 2025 11:36 (18 minutes)***Presenter:** MONTEREALI, Federico**Session Classification:** Electroweak

Contribution ID: 46

Type: **not specified**

## Higgs Differential and STXS cross-sections at ATLAS+CMS

*Tuesday 10 June 2025 11:54 (18 minutes)***Presenter:** CAPPATI, Alessandra**Session Classification:** Electroweak

Contribution ID: 47

Type: **not specified**

## Measurements of Higgs boson properties from diboson final states in CMS

*Tuesday 10 June 2025 12:12 (18 minutes)***Presenter:** SANTOCCHIA, Attilio**Session Classification:** Electroweak



Contribution ID: 48

Type: **not specified**

# Detection of an Ultra-High-Energy Neutrino Event with KM3NeT

*Tuesday 10 June 2025 13:45 (15 minutes)***Presenter:** BENDAHMAN, Meriem**Session Classification:** Astroparticle

Contribution ID: 49

Type: **not specified**

## Neutrino astronomy across stellar timescales at Super-Kamiokande

*Tuesday 10 June 2025 14:15 (15 minutes)***Presenter:** XU, Benda (Tsinghua University at Beijing)**Session Classification:** Astroparticle

Contribution ID: 50

Type: **not specified**

## Neutrino mass and Cosmic Neutrino Background with PTOLEMY experiment

*Tuesday 10 June 2025 14:30 (15 minutes)***Presenter:** VIRZI, Federico (Università degli studi dell'Aquila- INFN LNGS)**Session Classification:** Astroparticle

Contribution ID: 51

Type: **not specified**

## The KM3NeT neutrino telescope: status and recent results

*Tuesday 10 June 2025 13:30 (15 minutes)***Presenter:** NAVAS, Sergio (Universidad de Granada)**Session Classification:** Astroparticle

Contribution ID: 52

Type: **not specified**

# Discovery of Astrophysical Tau Neutrinos with IceCube

*Tuesday 10 June 2025 14:00 (15 minutes)***Presenter:** COWEN, Douglas (Pennsylvania State University)**Session Classification:** Astroparticle

Contribution ID: 53

Type: **not specified**

## Hunting neutrinos from hybrid stars

**Presenter:** MARTINEZ-MIRAVE, Pablo (IFIC (CSIC-Univ. Valencia))

**Session Classification:** Astroparticle

Contribution ID: 54

Type: **not specified**

## First observation of reactor antineutrinos by coherent scattering with CONUS+

*Tuesday 10 June 2025 11:00 (15 minutes)***Presenter:** SANCHEZ GARCIA, Edgar**Session Classification:** Neutrinos

Contribution ID: 55

Type: **not specified**

## Exploring CEvNS with NUCLEUS Experiment

*Tuesday 10 June 2025 11:15 (15 minutes)*

**Presenter:** GIAMMEI, Marco

**Session Classification:** Neutrinos



Contribution ID: 56

Type: **not specified**

# **RELICS: Search for Coherent Elastic Neutrino-Nucleus Scattering from reactor neutrinos using LXeTPC**

*Tuesday 10 June 2025 11:30 (15 minutes)***Presenter:** CAI, Chang**Session Classification:** Neutrinos

Contribution ID: 57

Type: **not specified**

## **CLOUD: fundamental reactor antineutrino physics using the novel LiquidO detection technology**

*Tuesday 10 June 2025 11:45 (15 minutes)***Presenter:** TUCCORI, Nicolò**Session Classification:** Neutrinos

Contribution ID: 58

Type: **not specified**

## Antineutrinos in SNO+

*Tuesday 10 June 2025 12:00 (15 minutes)*

**Presenter:** ANDRINGA, Sofia (LIP)

**Session Classification:** Neutrinos

Contribution ID: 59

Type: **not specified**

## Results from the T2K Experiment

*Tuesday 10 June 2025 13:30 (15 minutes)*

**Presenter:** Dr LATHAM, Nicholas (University of London (GB))

**Session Classification:** Neutrinos

Contribution ID: **60**Type: **not specified**

## NOvA Three Flavour Neutrino Oscillation results

*Tuesday 10 June 2025 13:45 (15 minutes)***Presenter:** BEZERRA, Thiago (Subatech Laboratory)**Session Classification:** Neutrinos

Contribution ID: **61**

Type: **not specified**

## **Status of the Short-Baseline Near Detector at Fermilab**

*Tuesday 10 June 2025 14:00 (15 minutes)*

**Presenter:** PATON, Josephine

**Session Classification:** Neutrinos

Contribution ID: **62**

Type: **not specified**

## Latest results in the JSNS2 experiment

*Tuesday 10 June 2025 14:15 (15 minutes)*

**Presenter:** LEE, Dongha

**Session Classification:** Neutrinos

Contribution ID: 63

Type: **not specified**

## Beyond Standard Model Neutrino Oscillation Results from NOvA

*Tuesday 10 June 2025 14:30 (15 minutes)***Presenter:** LISTER, Adam**Session Classification:** Neutrinos



Contribution ID: 64

Type: **not specified**

## Logarithmic EW corrections at one-loop

*Tuesday 10 June 2025 13:30 (18 minutes)***Presenter:** LINDERT, Jonas (University of Sussex)**Session Classification:** Electroweak

Contribution ID: 65

Type: **not specified**

## **Vacuum Metastability from Axion-Higgs Criticality**

**Presenter:** DETERING, Maximilian

**Session Classification:** Electroweak

Contribution ID: 66

Type: **not specified**

## Testing Bell inequalities and probing quantum entanglement at future colliders

*Tuesday 10 June 2025 13:50 (18 minutes)***Presenter:** RUZI, Alim**Session Classification:** Electroweak

Contribution ID: 67

Type: **not specified**

# BSM Multi-Higgs: Collider Phenomenology and Electroweak Phase Transitions

*Tuesday 10 June 2025 14:10 (18 minutes)***Presenter:** NASGAR, Wrishik (University of Glasgow)**Session Classification:** Electroweak

Contribution ID: 68

Type: **not specified**

## **Protons and antiprotons in HEPD-02**

**Presenter:** PIETRONI, Silvia

**Session Classification:** Astroparticle

Contribution ID: 69

Type: **not specified**

## **Listening for ultra-heavy dark matter with underwater acoustic detectors**

**Presenter:** CLEAVER, Damon (King's College London)

**Session Classification:** Astroparticle

Contribution ID: 70

Type: **not specified**

## Dark matter and dark sector searches in the first KM3NeT data

*Tuesday 10 June 2025 16:15 (15 minutes)***Presenter:** GOZZINI, Sara Rebecca**Session Classification:** Neutrinos

Contribution ID: 71

Type: **not specified**

# Ultra-light Dark Matter Limits from Astrophysical Neutrino Flavor

*Tuesday 10 June 2025 16:30 (15 minutes)***Presenter:** KATORI, Teppei (King's College London)**Session Classification:** Neutrinos



Contribution ID: 72

Type: **not specified**

## Current Status and Future Prospects of the Three-Neutrino Mixing Framework

*Tuesday 10 June 2025 15:30 (15 minutes)***Presenter:** MARTINEZ SOLER, Ivan (Durham University and IPPP)**Session Classification:** Neutrinos

Contribution ID: 73

Type: **not specified**

## **Alleviating the present tension between T2K and NOvA**

*Tuesday 10 June 2025 15:45 (15 minutes)*

**Presenter:** PASQUINI, Pedro

**Session Classification:** Neutrinos

Contribution ID: 74

Type: **not specified**

## **Illuminating 2-3 sector of neutrino oscillation with unparalleled precision by leveraging the synergistic potential of DUNE and T2HK**

**Presenter:** KUNDU, Ritam (Institute of Physics, Bhubaneswar)

**Session Classification:** Neutrinos

Contribution ID: 75

Type: **not specified**

## Global Extraction of the Electromagnetic Response Functions RL and RT

**Presenter:** BODEK, Arie (University of Rochester (US))

**Session Classification:** Neutrinos

Contribution ID: 76

Type: **not specified**

## A direct probe of neutrino compositeness

*Tuesday 10 June 2025 16:00 (15 minutes)*

**Presenter:** BORRELLO, Matteo

**Session Classification:** Neutrinos

Contribution ID: 77

Type: **not specified**

## Neutrino oscillation induced by a geometrical four-fermion interaction

**Presenter:** BARICK, Riya (S. N. Bose National Centre for Basic Sciences)

**Session Classification:** Neutrinos

Contribution ID: 78

Type: **not specified**

## EM Shower Identification Reconstruction with Testbeam 2023 at the FASERnu experiment

*Tuesday 10 June 2025 15:30 (15 minutes)***Presenter:** WANG, Yuxiao (Tsinghua University (CN))**Session Classification:** Special

Contribution ID: 79

Type: **not specified**

# Neutron Tagging From Neutrino Interactions in DUNE-ND 2x2 Prototype

*Tuesday 10 June 2025 15:45 (15 minutes)***Presenter:** KUFATTY, Georgette**Session Classification:** Special



Contribution ID: **80**

Type: **not specified**

## **SBND-PRISM: Sampling Multiple Off-Axis Neutrino Fluxes with the SBND Detector**

*Tuesday 10 June 2025 16:00 (15 minutes)*

**Presenter:** DEL TUTTO, Marco

**Session Classification:** Special

Contribution ID: 81

Type: **not specified**

## Recent Advancements in Machine Learning Techniques Utilised by NOvA

*Tuesday 10 June 2025 16:15 (15 minutes)***Presenter:** BOOTH, Alexander Craig (University of London (GB))**Session Classification:** Special

Contribution ID: 82

Type: **not specified**

## **Delayed Electron Mitigation in the RELICS Experiment with Deep Neural Network based Position Reconstruction**

*Tuesday 10 June 2025 16:30 (16 minutes)*

**Presenter:** GUO, Xiaoran

**Session Classification:** Special

Contribution ID: 83

Type: **not specified**

## Measurement of the Muon Anomalous Precession Frequency in the Muon g-2 Experiment at Fermilab

*Tuesday 10 June 2025 15:30 (15 minutes)***Presenter:** ZENG, Yonghao**Session Classification:** Flavour & Precision

Contribution ID: 84

Type: **not specified**

## Improved understanding of the magnetic field in the Fermilab Muon $g-2$ experiment

*Tuesday 10 June 2025 15:45 (15 minutes)***Presenter:** REIMANN, René**Session Classification:** Flavour & Precision

Contribution ID: 85

Type: **not specified**

## The Mu2e experiment

*Tuesday 10 June 2025 16:00 (15 minutes)*

**Presenter:** PRICE, Joseph (University of Liverpool)

**Session Classification:** Flavour & Precision

Contribution ID: **86**

Type: **not specified**

## **Searching for muon to electron conversion in COMET**

*Tuesday 10 June 2025 16:15 (15 minutes)*

**Presenter:** FUJII, Yuki

**Session Classification:** Flavour & Precision

Contribution ID: 87

Type: **not specified**

## Searching for the Muon's Electric Dipole Moment by A Compact Frozen-Spin Trap (muEDM)

*Tuesday 10 June 2025 16:30 (16 minutes)***Presenter:** HU, Tianqi**Session Classification:** Flavour & Precision



Contribution ID: 88

Type: **not specified**

## Understanding accelerator-based (anti)neutrino fluxes: Hadron production measurements at NA61/SHINE

*Wednesday 11 June 2025 11:00 (15 minutes)***Presenter:** BACK, John James (University of Warwick (GB))**Session Classification:** Neutrinos

Contribution ID: 89

Type: **not specified**

## Neutrino-argon cross-section measurements from the MicroBooNE experiment

*Wednesday 11 June 2025 11:15 (15 minutes)***Presenter:** EVANS, Justin (University of Manchester (UK))**Session Classification:** Neutrinos

Contribution ID: 90

Type: **not specified**

## **A short-baseline neutrino beam for high-precision cross-section measurements**

*Wednesday 11 June 2025 11:30 (15 minutes)***Presenter:** TERRANOVA, Francesco**Session Classification:** Neutrinos

Contribution ID: 91

Type: **not specified**

# Neutrino Interaction Measurements with the SBND Experiment

*Wednesday 11 June 2025 11:45 (15 minutes)***Presenter:** FILKINS, Amy (Syracuse University)**Session Classification:** Neutrinos

Contribution ID: 92

Type: **not specified**

## **Measurement of TeV-scale muon neutrino cross sections using atmospheric neutrinos in Super-Kamiokande**

*Wednesday 11 June 2025 12:00 (15 minutes)***Presenter:** KATORI, Teppei (King's College London)**Session Classification:** Neutrinos

Contribution ID: 93

Type: **not specified**

## NOvA cross section results

*Wednesday 11 June 2025 12:15 (15 minutes)*

**Presenter:** OLSEN, Travis

**Session Classification:** Neutrinos

Contribution ID: 94

Type: **not specified**

## Searches for BSM Physics with NOvA

*Wednesday 11 June 2025 11:00 (18 minutes)*

**Presenter:** HOROHO, Tyler

**Session Classification:** Electroweak

Contribution ID: 95

Type: **not specified**

## Searches for physics beyond the Standard Model with the MicroBooNE experiment

*Wednesday 11 June 2025 11:18 (18 minutes)***Presenter:** EVANS, Justin (University of Manchester (UK))**Session Classification:** Electroweak



Contribution ID: 96

Type: **not specified**

## Searches for low mass BSM physics at ATLAS

*Wednesday 11 June 2025 11:36 (18 minutes)***Presenter:** TAMIR, Nadav Michael (Tel Aviv University (IL))**Session Classification:** Electroweak

Contribution ID: 97

Type: **not specified**

## Measurements of Solar Neutrinos in the SNO+ Detector

*Wednesday 11 June 2025 11:45 (15 minutes)***Presenter:** COOKMAN, Daniel (University of Oxford)**Session Classification:** Astroparticle

Contribution ID: 98

Type: **not specified**

## Solar neutrinos from the CNO cycle: Borexino results and solar physics implications

*Wednesday 11 June 2025 11:15 (15 minutes)***Presenter:** BASILICO, Davide (University of Milan / INFN Milan)**Session Classification:** Astroparticle

Contribution ID: 99

Type: **not specified**

# Supernova Pointing Capabilities of DUNE

*Wednesday 11 June 2025 11:30 (15 minutes)***Presenters:** VILLA, Emanuele; VILLA, Emanuele (CERN/Universite de Geneve (CH))**Session Classification:** Astroparticle

Contribution ID: **100**Type: **not specified**

## Prospects of detecting diffuse supernova neutrino background at JUNO

*Wednesday 11 June 2025 12:00 (15 minutes)*

**Presenter:** LI, Gaosong (Institute of High Energy Physics, Chinese Academy of Sciences, China)

**Session Classification:** Astroparticle

Contribution ID: **101**Type: **not specified**

## Non-beam physics at Hyper-Kamiokande

*Wednesday 11 June 2025 11:00 (15 minutes)***Presenter:** WILSON HAWKE, Jeanne Rachel (King's College London)**Session Classification:** Astroparticle

Contribution ID: **102**

Type: **not specified**

## **SMEFT with Higgs Field Curvature**

*Tuesday 10 June 2025 14:30 (18 minutes)*

**Presenter:** MANTON, Nicholas

**Session Classification:** Electroweak

Contribution ID: **103**

Type: **not specified**

## The kaon CKM picture

**Presenter:** DERY, Avital

**Session Classification:** Flavour & Precision



Contribution ID: **104**Type: **not specified**

# CKM matrix related measurements at Belle and Belle II

*Wednesday 11 June 2025 11:00 (15 minutes)***Presenter:** GAUDINO, Giovanni (University Federico II and INFN, Naples (IT))**Session Classification:** Flavour & Precision

Contribution ID: **105**

Type: **not specified**

## **Now and future of the kaon physics program at J-PARC**

*Wednesday 11 June 2025 11:15 (15 minutes)*

**Presenter:** LIN, Chieh

**Session Classification:** Flavour & Precision

Contribution ID: **106**Type: **not specified**

## Measurements of electroweak penguin decays at Belle and Belle II

*Wednesday 11 June 2025 11:30 (15 minutes)***Presenter:** FAN, Yulan**Session Classification:** Flavour & Precision

Contribution ID: **107**Type: **not specified**

## Searches for dark sector particles at Belle and Belle II

*Wednesday 11 June 2025 11:45 (15 minutes)***Presenter:** CAMPAJOLA, Marcello (University Federico II and INFN, Naples (IT))**Session Classification:** Flavour & Precision

Contribution ID: **108**Type: **not specified**

## Searches for high mass BSM physics at ATLAS+CMS

*Wednesday 11 June 2025 11:54 (18 minutes)***Presenter:** KACZMARSKA, Anna (Polish Academy of Sciences (PL))**Session Classification:** Electroweak

Contribution ID: **109**

Type: **not specified**

## **The SNO+ detector**

*Thursday 12 June 2025 11:00 (15 minutes)*

**Presenter:** FALK, Elisabeth (University of Sussex (UK))

**Session Classification:** Neutrinos

Contribution ID: **110**Type: **not specified**

## Measurement of $B^0$ lifetime in ATLAS

*Thursday 12 June 2025 11:00 (15 minutes)***Presenter:** SMIZANSKA, Maria (Lancaster University)**Session Classification:** Flavour & Precision

Contribution ID: **111**

Type: **not specified**

## **Recent B-physics results at CMS**

*Thursday 12 June 2025 11:15 (15 minutes)*

**Presenter:** SIMONE, Federica Maria (Universita e INFN, Bari (IT))

**Session Classification:** Flavour & Precision



Contribution ID: 112

Type: **not specified**

## Probing Charged Lepton Flavour Violation at the LHCb experiment

*Thursday 12 June 2025 11:30 (15 minutes)***Presenter:** FRAU, Giulia**Session Classification:** Flavour & Precision

Contribution ID: 113

Type: **not specified**

## CPV in b flavoured hadron decays in LHCb

*Thursday 12 June 2025 11:45 (15 minutes)***Presenter:** ZHANG, Yanxi (Peking University)**Session Classification:** Flavour & Precision

Contribution ID: 114

Type: **not specified**

## The T2K ND280 Near detector upgrade

*Thursday 12 June 2025 11:15 (15 minutes)***Presenter:** VILLA, Emanuele (CERN/Université de Geneve)**Session Classification:** Neutrinos

Contribution ID: 115

Type: **not specified**

## Search for New Resonances with ATLAS+CMS

*Thursday 12 June 2025 11:00 (18 minutes)***Presenter:** LEE, Jeongeun (Seoul National University (KR))**Session Classification:** Electroweak

Contribution ID: **116**Type: **not specified**

## **Search for HNLs, vector like quarks and vector like leptons in ATLAS+CMS**

*Thursday 12 June 2025 11:18 (18 minutes)***Presenter:** ALMOND, John Leslie**Session Classification:** Electroweak

Contribution ID: 117

Type: **not specified**

## Searches for Dark Matter with the ATLAS and CMS Experiments at the LHC

*Thursday 12 June 2025 11:36 (18 minutes)***Presenter:** HAMDAOUI, Hassane**Session Classification:** Electroweak

Contribution ID: **118**

Type: **not specified**

## **SBND Detector Commissioning and Early Performance**

*Thursday 12 June 2025 11:30 (15 minutes)*

**Presenter:** YATES, Lauren (Fermilab)

**Session Classification:** Neutrinos

Contribution ID: **119**Type: **not specified**

## Searches for supersymmetric particles with ATLAS+CMS

*Thursday 12 June 2025 11:54 (18 minutes)***Presenter:** BHATTI, Zubair**Session Classification:** Electroweak



Contribution ID: **120**

Type: **not specified**

## Status and Commissioning of the JUNO Experiment

*Thursday 12 June 2025 11:45 (15 minutes)*

**Presenter:** GRASSI, Marco (Universita e INFN, Padova (IT))

**Session Classification:** Neutrinos

Contribution ID: **121**

Type: **not specified**

## **LiquidO: Particle Imaging in Opaque Media**

*Thursday 12 June 2025 12:00 (15 minutes)*

**Presenter:** NAVAS-NICOLAS, Diana

**Session Classification:** Neutrinos

Contribution ID: 122

Type: **not specified**

# The (semi)-leptonic decays of charmed mesons at BESIII

*Thursday 12 June 2025 13:30 (15 minutes)***Presenter:** SHI, Jialei**Session Classification:** Flavour & Precision

Contribution ID: 123

Type: **not specified**

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

*Thursday 12 June 2025 12:15 (15 minutes)***Presenter:** MARTÍNEZ LÓPEZ, Francisco (Queen Mary University of London)**Session Classification:** Neutrinos

Contribution ID: **124**

Type: **not specified**

## Charmed baryon decays at BESIII

*Thursday 12 June 2025 13:45 (15 minutes)*

**Presenter:** TIAN, WenHui

**Session Classification:** Flavour & Precision

Contribution ID: 125

Type: **not specified**

## Searches for hidden sectors and lepton flavour violation in kaon decays at NA62

*Thursday 12 June 2025 14:00 (15 minutes)*

**Presenter:** BLAZEK, Tomas (Faculty of Mathematics and Physics (FMFI)-Comenius University)

**Session Classification:** Flavour & Precision

Contribution ID: 126

Type: **not specified**

## Experimental proof of principle of the Neutrino Tagging technique at NA62

*Thursday 12 June 2025 14:15 (15 minutes)***Presenter:** MARCHEVSKI, Radoslav (École Polytechnique Fédérale de Lausanne (EPFL))**Session Classification:** Flavour & Precision

Contribution ID: **127**

Type: **not specified**

—

*Wednesday 11 June 2025 12:12 (18 minutes)*

**Session Classification:** Electroweak



Contribution ID: **128**Type: **not specified****N/A****Session Classification:** Electroweak

Contribution ID: **129**Type: **not specified**

## Multiboson production in ATLAS+CMS

*Thursday 12 June 2025 15:30 (18 minutes)***Presenter:** BATTISTA MAROZZO, Giovanni**Session Classification:** Electroweak

Contribution ID: **130**

Type: **not specified**

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*Thursday 12 June 2025 12:00 (30 minutes)*

**Session Classification:** Flavour & Precision

Contribution ID: **131**

Type: **not specified**

**N/A**

**Session Classification:** Flavour & Precision

Contribution ID: 132

Type: **not specified**

## Differential inclusive single W/Z measurements sensitive to PDFs, EFT in ATLAS+CMS

*Thursday 12 June 2025 15:48 (18 minutes)***Presenter:** ZHAO, Zihan (University of Science and Technology of China (CN))**Session Classification:** Electroweak

Contribution ID: 133

Type: **not specified**

## Results from global EFT fits from ATLAS+CMS

*Thursday 12 June 2025 16:06 (18 minutes)***Presenter:** LEVIN, Andrew Michael (Peking University (CN))**Session Classification:** Electroweak

Contribution ID: 134

Type: **not specified**

## Associated top quark production including EFT interpretations with ATLAS+CMS

*Thursday 12 June 2025 16:42 (18 minutes)***Presenter:** OBESO MENENDEZ, Miguel**Session Classification:** Electroweak

Contribution ID: 135

Type: **not specified**

## Results on top quark mass, properties and cross section with ATLAS+CMS

*Thursday 12 June 2025 16:24 (18 minutes)***Presenter:** CRISTINZIANI, Markus (Universitaet Siegen (DE))**Session Classification:** Electroweak



Contribution ID: **136**

Type: **not specified**

## **Latest results from the CUORE experiment**

*Thursday 12 June 2025 13:30 (15 minutes)*

**Presenter:** CAMPANI, Alice

**Session Classification:** Neutrinos

Contribution ID: 137

Type: **not specified**

## Measurements and boson polarization studies with VBS processes in ATLAS

*Thursday 12 June 2025 12:12 (18 minutes)*

**Presenter:** CONVENTI, Francesco (Università degli studi di Napoli "Parthenope" and INFN Sezione di Napoli (IT))

**Session Classification:** Electroweak

Contribution ID: 138

Type: **not specified**

# Unveiling the Majorana Nature of Neutrinos: First $0\nu\beta\beta$ Results from LEGEND-200

*Thursday 12 June 2025 13:45 (15 minutes)***Presenter:** CALGARO, Sofia**Session Classification:** Neutrinos

Contribution ID: 139

Type: **not specified**

## **First results from the NEXT-100 detector and future plans**

*Thursday 12 June 2025 14:00 (15 minutes)*

**Presenter:** MARTINEZ LEMA, Gonzalo (Donostia International Physics Center)

**Session Classification:** Neutrinos

Contribution ID: **140**

Type: **not specified**

## **Status update on the SuperNEMO double-beta-decay experiment**

*Thursday 12 June 2025 14:15 (15 minutes)*

**Presenter:** QUINN, Will

**Session Classification:** Neutrinos

Contribution ID: 141

Type: **not specified**

# Neutrinoless Double Beta Decay Search in the SNO+ Experiment

*Thursday 12 June 2025 14:30 (15 minutes)***Presenter:** KROUPOVA, Tereza (University of Oxford (GB))**Session Classification:** Neutrinos

Contribution ID: 142

Type: **not specified**

## **The search for neutrinoless double beta plus decay with the NuDoubt++ experiment**

*Thursday 12 June 2025 15:30 (15 minutes)***Presenter:** WAKELY, Susanna**Session Classification:** Neutrinos

Contribution ID: 143

Type: **not specified**

# XLZD: A Future Dark Matter and Rare Physics Observatory

*Thursday 12 June 2025 13:30 (15 minutes)*

**Presenter:** DOBSON, Jim (King's College London)

**Session Classification:** Astroparticle



Contribution ID: 144

Type: **not specified**

# **The SABRE South Experiment at the Stawell Underground Physics Laboratory**

*Thursday 12 June 2025 13:45 (15 minutes)*

**Presenter:** DASTGIRI, Ferdos

**Session Classification:** Astroparticle

Contribution ID: 145

Type: **not specified**

## **New experiment for two neutrino emission double beta decay using Zirconium-96**

*Thursday 12 June 2025 15:45 (15 minutes)***Presenter:** FUKUDA, Yoshiyuki (Miyagi University of Education)**Session Classification:** Neutrinos

Contribution ID: 146

Type: **not specified**

# Into the Neutrino Fog: Latest Results from the XENONnT Experiment

*Thursday 12 June 2025 14:00 (15 minutes)*

**Presenter:** LIU, Kexin

**Session Classification:** Astroparticle

Contribution ID: 147

Type: **not specified**

## Dark Matter Searches with the DarkSide-20k Detector

*Thursday 12 June 2025 14:15 (15 minutes)*

**Presenter:** AGNES, Paolo (GSSI)

**Session Classification:** Astroparticle

Contribution ID: 148

Type: **not specified**

## **Recent results from the LUX-ZEPLIN (LZ) dark matter experiment**

*Thursday 12 June 2025 14:30 (16 minutes)*

**Presenter:** AL MUSALHI, Aiham

**Session Classification:** Astroparticle

Contribution ID: 149

Type: **not specified**

## **The CROSS experiment on $^{100}\text{Mo}$ neutrinoless double beta decay: status and physics reach**

*Thursday 12 June 2025 16:00 (15 minutes)***Presenter:** BUCHYNSKA, Mariia**Session Classification:** Neutrinos

Contribution ID: **150**

Type: **not specified**

## Recent results from the KATRIN experiment

*Thursday 12 June 2025 16:15 (15 minutes)*

**Presenter:** GOUPY, Chloe (Max Planck Institute for Nuclear Physics (MPIK))

**Session Classification:** Neutrinos

Contribution ID: **151**

Type: **not specified**

## **Outer Detector System R&D for Hyper-Kamiokande**

*Thursday 12 June 2025 15:30 (15 minutes)*

**Presenter:** KATORI, Teppei

**Session Classification:** Astroparticle



Contribution ID: **152**

Type: **not specified**

## **Nuclear Physics Measurement in PandaX-4T**

**Presenter:** LI, Chenxiang

**Session Classification:** Astroparticle

Contribution ID: 153

Type: **not specified**

# Combining Cyclotron Radiation Emission Spectroscopy and Atom Trapping for Next-generation Neutrino Mass Experiment Project 8

*Thursday 12 June 2025 16:30 (15 minutes)***Presenter:** REIMANN, René**Session Classification:** Neutrinos

Contribution ID: 154

Type: **not specified**

# The DarkSide-20k photodetection system

*Thursday 12 June 2025 16:00 (15 minutes)*

**Presenter:** ROBERTS, Conner

**Session Classification:** Astroparticle

Contribution ID: 155

Type: **not specified**

## The hadronic decays of charmed mesons at BESIII

*Thursday 12 June 2025 14:30 (15 minutes)*

**Presenter:** TIANYOU, Li

**Session Classification:** Flavour & Precision

Contribution ID: 156

Type: **not specified**

# **Illuminating the Low-Energy Frontier: Novel Calibration Methods for the KeV-Scale in the LUX-ZEPLIN Experiment**

*Thursday 12 June 2025 16:15 (15 minutes)***Presenter:** SINISCALCO, Jacopo**Session Classification:** Astroparticle

Contribution ID: 157

Type: **not specified**

## Measurement of $^{214}\text{Pb}$ $\beta$ decay branching ratio with PandaX-4T

*Thursday 12 June 2025 16:30 (15 minutes)***Presenter:** YUAN, Zhe**Session Classification:** Astroparticle

Contribution ID: **158**

Type: **not specified**

**N/A**

**Session Classification:** Special

Contribution ID: **159**

Type: **not specified**

**N/A**

**Session Classification:** Flavour & Precision



Contribution ID: **160**Type: **not specified**

## Study of Atmospheric Neutrino Oscillation in JUNO

*Wednesday 11 June 2025 12:15 (15 minutes)***Presenter:** KHATUN, Amina (FMPI, Comenius University, Bratislava)**Session Classification:** Astroparticle

Contribution ID: 161

Type: **not specified**

## **The Supernova Early Warning System (SNEWS) v2.0: a supernova neutrino alert and followup system**

*Monday 9 June 2025 17:10 (1 minute)*

POSTER

**Presenter:** HABIG, Alec Thomas (University of Minnesota (US))**Session Classification:** Special

Contribution ID: **162**

Type: **not specified**

## **Modelling Radiogenic Backgrounds for Future Dark Matter Searches at XLZD**

*Monday 9 June 2025 17:11 (1 minute)*

**Presenter:** STENHOUSE, Trinity

**Session Classification:** Special

Contribution ID: **163**Type: **not specified**

## **Astrophysical Tau Neutrino Searches with Hyper-Kamiokande**

**Presenter:** RAMOS CASCON, Elena**Session Classification:** Special

Contribution ID: 164

Type: **not specified**

## Precision measurement of the branching fraction for the decay $\psi$ to $\tau\tau$

*Monday 9 June 2025 17:13 (1 minute)***Presenter:** ZHANG, Jiangyong**Session Classification:** Special

Contribution ID: 165

Type: **not specified**

## Search for new physics with charm rare decays at BESIII

*Monday 9 June 2025 17:14 (1 minute)***Presenter:** LI, Tianyou (Nankai university)**Session Classification:** Special

Contribution ID: **166**

Type: **not specified**

## **CUPID, the next-generation $0\nu\beta\beta$ bolometric experiment**

*Monday 9 June 2025 17:15 (1 minute)*

**Presenter:** BUCHYNSKA, Mariia

**Session Classification:** Special

Contribution ID: 167

Type: **not specified**

## **Probing Absolute Neutrino Mass with Scalar Non-Standard Interactions at DUNE**

**Presenter:** SARKER, Arnab**Session Classification:** Special



Contribution ID: **168**Type: **not specified**

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

**Presenter:** MARTINEZ LOPEZ, Francisco**Session Classification:** Special

Contribution ID: **169**

Type: **not specified**

## **DUNE Status and Science**

**Presenter:** PEREZ-MOLINA, Laura

**Session Classification:** Special

Contribution ID: 170

Type: **not specified**

## Neutrino oscillation physics in JUNO

*Monday 9 June 2025 17:18 (1 minute)*

**Presenter:** CERRONE, Vanessa

**Session Classification:** Special

Contribution ID: 171

Type: **not specified**

## **Unveiling the Majorana Nature of Neutrinos: Towards LEGEND-1000**

*Monday 9 June 2025 17:19 (1 minute)*

**Presenter:** SCHWARZ, Mario

**Session Classification:** Special

Contribution ID: 172

Type: **not specified**

## **The NEXT program towards the tonne-scale**

**Presenter:** PALMEIRO PAZOS, Brais

**Session Classification:** Special

Contribution ID: 173

Type: **not specified**

## The SNO+ Tellurium Deployment Programme

*Monday 9 June 2025 17:21 (1 minute)*

**Presenter:** TAM, Benjamin (University of Oxford)

**Session Classification:** Special

Contribution ID: 174

Type: **not specified**

## Hyper-Kamiokande Light Injection System and Detector Systematics

**Presenter:** LIMBU, Unik (University of Liverpool)

**Session Classification:** Special

Contribution ID: 175

Type: **not specified**

## **Impact of Lorentz Invariance Violation on Neutrino Oscillations: A Study with DUNE**

**Presenter:** DEKA, Priyankush (Tezpur University, India)

**Session Classification:** Special



Contribution ID: 176

Type: **not specified**

# Imaginariness as a resource in Neutrino Systems

*Monday 9 June 2025 17:24 (1 minute)***Presenter:** CHUNDAWAT, Neetu Raj Singh (Indian Institute of Technology Jodhpur)**Session Classification:** Special

Contribution ID: 177

Type: **not specified**

## Real-time Wiener Deconvolution Algorithm on FPGA for Neutrino Physics

*Monday 9 June 2025 17:25 (1 minute)***Presenter:** LASTRUCCI, Lorenzo**Session Classification:** Special

Contribution ID: 178

Type: **not specified**

## **The Atomic Beam Source for the Project 8 Experiment : From Dissociation to Cooling**

**Presenter:** EL BOUSTANI, Aya

**Session Classification:** Special

Contribution ID: 179

Type: **not specified**

## Analytic Approach to Neutrino Oscillations in Presence of Scalar NSI

**Presenter:** BEZBORUAH, Dharitree (Tezpur University)

**Session Classification:** Special

Contribution ID: **180**

Type: **not specified**

# Atmospheric neutrino oscillations with the IceCube Upgrade

*Tuesday 10 June 2025 12:15 (15 minutes)*

**Presenter:** WELDERT, Jan

**Session Classification:** Special

Contribution ID: **181**

Type: **not specified**

## **Nuclear Physics Measurement in PandaX-4T**

*Thursday 12 June 2025 15:45 (15 minutes)*

**Presenter:** LI, Chenxiang

**Session Classification:** Astroparticle

Contribution ID: **182**

Type: **not specified**

## **Vice Chancellor's Welcome**

*Monday 9 June 2025 17:00 (5 minutes)*

Contribution ID: **183**

Type: **not specified**

## **Simulating LiquidO detectors for prototype research and development**

*Monday 9 June 2025 17:28 (5 minutes)*

**Presenter:** CATTERMOLÉ, Ben (University of Sussex)

**Session Classification:** Special



Contribution ID: **184**

Type: **not specified**

## **Muon tracking in a LiquidO opaque scintillator detector**

*Monday 9 June 2025 17:33 (5 minutes)*

**Presenter:** DE CARLOS GENEROWICZ, Max

**Session Classification:** Special

Contribution ID: 185

Type: **not specified**

## Characterisation of a planar opaque LiquidO detector with cosmic-ray muons

*Monday 9 June 2025 17:38 (5 minutes)***Presenter:** LOCK, Jess (University of Sussex)**Session Classification:** Special

Contribution ID: **186**Type: **not specified**

## **Simulating LiquidO detectorsfor prototype R&D**

**Presenter:** CATTERMOLÉ, Ben (University of Sussex)**Session Classification:** Special

Contribution ID: **187**

Type: **not specified**

## **AntiMatter-OTech: A large scale LiquidO neutrino detector for reactor monitoring**

*Monday 9 June 2025 17:55 (5 minutes)*

**Presenter:** WONG, Adam

**Session Classification:** Special

Contribution ID: **188**Type: **not specified**

## Rock muons at the DUNE Near Detector

*Monday 9 June 2025 18:00 (5 minutes)***Presenter:** SABATER ANDRES, Eva (University of Sussex (GB))**Session Classification:** Special

Contribution ID: **189**

Type: **not specified**

## CONFERENCE PHOTOGRAPH

*Monday 9 June 2025 12:30 (15 minutes)*

Contribution ID: **190**Type: **not specified**

## Multi-Faceted GeV Neutrino Detection in LiquidO

*Monday 9 June 2025 18:05 (5 minutes)*

**Presenters:** Prof. HARTNELL, Jeffrey John (University of Sussex (GB)); LASORAK, Pierre (Imperial College (GB))

**Session Classification:** Special