

Particle Physics Annual Meeting

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome

Thursday, 21 May 2026 09:00 (10 minutes)

Presenter: VOSSEBELD, Joost (University of Liverpool)

Session Classification: Thursday: AM 1

Contribution ID: 2

Type: **not specified**

Prompt Gamma Monitoring in Particle therapy using silicon detectors and a coded mask (Y2, 6+2)

Thursday, 21 May 2026 09:10 (8 minutes)

Presenter: ALSHAMRANI, Razan

Session Classification: Thursday: AM 1

Contribution ID: 3

Type: **not specified**

Machine Learning Event Reconstruction for the Hyper-Kamiokande Far Detector (Y2, 6+2, remote)

Thursday, 21 May 2026 09:18 (8 minutes)

Presenter: FOSTER, Naomi (University of Liverpool)

Session Classification: Thursday: AM 1

Contribution ID: 4

Type: **not specified**

Spatiotemporal Machine Learning for Atmospheric Neutrino Interactions in JUNO (Y2, 6+2)

Thursday, 21 May 2026 09:26 (8 minutes)

Presenter: JONES, Liam (University of Liverpool)

Session Classification: Thursday: AM 1

Contribution ID: 5

Type: **not specified**

Data and Simulation-Based Studies for the Mu3e Experiment (Y2, 6+2)

Thursday, 21 May 2026 09:34 (8 minutes)

Presenter: WOODFORD, Jak (University of Liverpool)

Session Classification: Thursday: AM 1

Contribution ID: 6

Type: **not specified**

Higgs to Invisible search at ATLAS (Y2, 6+2)

Thursday, 21 May 2026 09:42 (8 minutes)

Presenter: RANGLES, Stephen

Session Classification: Thursday: AM 1

Contribution ID: 7

Type: **not specified**

Dark Photon Search at FASER (Y2, 6+2)

Thursday, 21 May 2026 09:50 (8 minutes)

Presenter: JOHNSON, Pawan (University of Liverpool)

Session Classification: Thursday: AM 1

Contribution ID: 8

Type: **not specified**

Probing Strongly Interacting Matter with the ALICE Detector (Y2, 6+2, remote)

Thursday, 21 May 2026 09:58 (8 minutes)

Presenters: NORMAN, Jaime; OCKLETON, Matthew

Session Classification: Thursday: AM 1

Contribution ID: 9

Type: **not specified**

Characterisation and system-level simulation of fully digital pixel architectures (Y2, 6+2)

Thursday, 21 May 2026 10:06 (8 minutes)

Presenter: ZHANG, Mingyu

Session Classification: Thursday: AM 1

Contribution ID: **10**

Type: **not specified**

Searches for Axions in Heavy-Ion Collisions at ATLAS (Y2, 6+2, remote)

Thursday, 21 May 2026 10:14 (8 minutes)

Presenter: SHIRSENDU, Roy

Session Classification: Thursday: AM 1

Contribution ID: **11**

Type: **not specified**

Machine Learning for tracking in HEP experiments (Y2, 6+2)

Thursday, 21 May 2026 10:22 (8 minutes)

Presenter: COSTANTINO, Giuseppe

Session Classification: Thursday: AM 1

Contribution ID: 12

Type: **not specified**

Design, Simulation, and Characterisation of Fast Timing Silicon Sensors for HEP applications (Y2, 6+2)

Thursday, 21 May 2026 11:00 (8 minutes)

Presenter: HANLON, Archie

Session Classification: Thursday: AM 2

Contribution ID: **13**

Type: **not specified**

Year 1 student talks

Thursday, 21 May 2026 11:08 (28 minutes)

Session Classification: Thursday: AM 2

Contribution ID: **14**

Type: **not specified**

Quantum-correlated $D^0\bar{D}^0$ systems in LHCb Run 3 Data (Y3, 10+2)

Friday, 22 May 2026 09:00 (12 minutes)

Presenter: LEE, Ho Sang

Session Classification: Friday: AM 1

Contribution ID: 15

Type: **not specified**

Studying Electron Neutrinos with FASER's Electronic Spectrometer (Y3, 10+2)

Friday, 22 May 2026 09:12 (12 minutes)

Presenter: ELEY, Sinead

Session Classification: Friday: AM 1

Contribution ID: 16

Type: **not specified**

Reducing Systematics at Hyper-Kamiokande: Calibration and Detector Studies (Y3, 10+2, remote)

Friday, 22 May 2026 11:00 (12 minutes)

Presenter: LIMBU, Unik

Session Classification: Friday: AM 2

Contribution ID: 17

Type: **not specified**

Leptoquarks and τ -ID with the ATLAS Detector (10+2)

Friday, 22 May 2026 09:24 (12 minutes)

Presenter: DEPALA, Mehul Gunvant (University of Liverpool (ATLAS))

Session Classification: Friday: AM 1

Contribution ID: **18**

Type: **not specified**

Early Fault-Tolerant Ground State Energy Estimation for Nuclear Systems (Y3, 10+2)

Friday, 22 May 2026 09:36 (12 minutes)

Presenter: MANEYRO, Marina

Session Classification: Friday: AM 1

Contribution ID: **19**

Type: **not specified**

Towards a New KLOE Luminosity Measurement (Y3, 10+2)

Friday, 22 May 2026 09:48 (12 minutes)

Presenter: VESTERGAARD, Niels

Session Classification: Friday: AM 1

Contribution ID: 20

Type: **not specified**

MuonE 2025 testrun and software development (Y3, 10+2)

Friday, 22 May 2026 10:00 (12 minutes)

Presenter: DEVANNE, Clement

Session Classification: Friday: AM 1

Contribution ID: 21

Type: **not specified**

Year 3 student talks: "Title" (10+2)

Friday, 22 May 2026 10:12 (12 minutes)

Presenter: CACCIOLA, Giorgia

Session Classification: Friday: AM 1

Contribution ID: 24

Type: **not specified**

Utilizing Qudits for Fault-Tolerant Quantum Simulation (Y3, 10+2)

Friday, 22 May 2026 11:12 (12 minutes)

Presenter: GODWOOD, Sam

Session Classification: Friday: AM 2

Contribution ID: 25

Type: **not specified**

ATLAS PHYSICS (17+3)

Thursday, 21 May 2026 11:36 (20 minutes)

Presenter: KRETZSCHMAR, Jan

Session Classification: Thursday: AM 2

Contribution ID: 26

Type: **not specified**

ATLAS ITk Upgrade (17+3)

Thursday, 21 May 2026 11:56 (20 minutes)

Presenter: WONSAK, Sven

Session Classification: Thursday: AM 2

Contribution ID: 27

Type: **not specified**

ALICE (13+2)

Thursday, 21 May 2026 12:16 (15 minutes)

Presenter: NORMAN, Jaime

Session Classification: Thursday: AM 2

Contribution ID: **28**

Type: **not specified**

FASER (13+2)

Thursday, 21 May 2026 13:30 (15 minutes)

Presenter: ANDERS, John

Session Classification: Thursday: PM 1

Contribution ID: 29

Type: **not specified**

PP theory talk (17+3)

Thursday, 21 May 2026 13:45 (20 minutes)

Presenter: TSANG, Tobias

Session Classification: Thursday: PM 1

Contribution ID: **30**

Type: **not specified**

LZ / XLZD (13+2)

Thursday, 21 May 2026 14:05 (15 minutes)

Presenter: HUGHES, Sean

Session Classification: Thursday: PM 1

Contribution ID: **31**

Type: **not specified**

Darkside & Argon R&D (13+2)

Thursday, 21 May 2026 14:20 (15 minutes)

Presenter: ROBERTS, Adam

Session Classification: Thursday: PM 1

Contribution ID: **32**

Type: **not specified**

MAGIS / Liverpool Atom Interferometer (13+2)

Thursday, 21 May 2026 14:35 (15 minutes)

Presenter: TINSLEY, Jonathan

Session Classification: Thursday: PM 1

Contribution ID: 33

Type: **not specified**

SHIP (8+2)

Thursday, 21 May 2026 14:50 (10 minutes)

Presenter: GWILLIAM, Carl

Session Classification: Thursday: PM 1

Contribution ID: 34

Type: **not specified**

Machine Learning and Crystal Xenon R&D for Improving the Sensitivity of Existing Dark Matter Searches (Y3, 10+2, remote)

Thursday, 21 May 2026 15:30 (12 minutes)

Presenter: HALL, Tea

Session Classification: Thursday: PM 2

Contribution ID: 35

Type: **not specified**

BUTTON (8+2)

Thursday, 21 May 2026 15:42 (10 minutes)

Presenter: TARRANT, Adam

Session Classification: Thursday: PM 2

Contribution ID: 36

Type: **not specified**

T2K, Super-k, Hyper-K (13+2)

Thursday, 21 May 2026 15:52 (15 minutes)

Presenter: Dr JENKINS, Sam

Session Classification: Thursday: PM 2

Contribution ID: 37

Type: **not specified**

JUNO / SBND (13+2)

Thursday, 21 May 2026 16:07 (15 minutes)

Presenter: Prof. ANDREOPOULOS, Costas (University of Liverpool)

Session Classification: Thursday: PM 2

Contribution ID: **38**

Type: **not specified**

DUNE (13+2)

Thursday, 21 May 2026 16:22 (15 minutes)

Presenter: TOURAMANIS, Christos

Session Classification: Thursday: PM 2

Contribution ID: 39

Type: **not specified**

LEGEND (13+2)

Friday, 22 May 2026 14:30 (15 minutes)

Presenter: MEHTA, Andrew

Session Classification: Friday: PM 1

Contribution ID: 40

Type: **not specified**

LHCb Physics and M&O (13+2)

Friday, 22 May 2026 11:24 (15 minutes)

Presenter: HUTCHCROFT, David (University of Liverpool)

Session Classification: Friday: AM 2

Contribution ID: 41

Type: **not specified**

LHCb Upgrade 2 (13+2)

Friday, 22 May 2026 11:39 (15 minutes)

Presenter: HENNESSY, Karol

Session Classification: Friday: AM 2

Contribution ID: 42

Type: **not specified**

Proton EDM (8+2)

Friday, 22 May 2026 11:54 (10 minutes)

Presenter: BOWCOCK, Themis

Session Classification: Friday: AM 2

Contribution ID: 43

Type: **not specified**

g-2 (FNAL, J-PARC, HAIF) (13+2)

Friday, 22 May 2026 13:30 (15 minutes)

Presenter: ZHANG, Ce (University of Liverpool)

Session Classification: Friday: PM 1

Contribution ID: 44

Type: **not specified**

KLOE / MUonE (13+2)

Friday, 22 May 2026 13:45 (15 minutes)

Presenter: Dr IGNATOV, Fedor (University of Liverpool)

Session Classification: Friday: PM 1

Contribution ID: 45

Type: **not specified**

Mu3e, MEG-2, MEG-3 (13+2)

Friday, 22 May 2026 14:00 (15 minutes)

Presenter: WONG, Mark

Session Classification: Friday: PM 1

Contribution ID: 46

Type: **not specified**

Muon EDM, Mu2e (13+2)

Friday, 22 May 2026 14:15 (15 minutes)

Presenter: Dr PRICE, Joe

Session Classification: Friday: PM 1

Contribution ID: 47

Type: **not specified**

Quantum R&D, FLASH (13+2)

Thursday, 21 May 2026 16:37 (15 minutes)

Presenter: BELTRAME, Paolo (University of Liverpool)

Session Classification: Thursday: PM 2

Contribution ID: 48

Type: **not specified**

Computing R&D (13+2)

Friday, 22 May 2026 15:30 (15 minutes)

Presenter: RODRIGUES, Eduardo

Session Classification: Friday: PM 2

Contribution ID: 49

Type: **not specified**

Report computing support team (8+2)

Friday, 22 May 2026 15:45 (10 minutes)

Presenter: WONG, Mark

Session Classification: Friday: PM 2

Contribution ID: 50

Type: **not specified**

Report Workshop and AML (8+2)

Friday, 22 May 2026 15:55 (10 minutes)

Presenter: WHITLEY, Mark

Session Classification: Friday: PM 2

Contribution ID: 51

Type: **not specified**

Year 1 PhD prize

Friday, 22 May 2026 16:05 (5 minutes)

Presenter: KRETZSCHMAR, Jan

Session Classification: Friday: PM 2

Contribution ID: 52

Type: **not specified**

wrap-up

Friday, 22 May 2026 16:10 (10 minutes)

Presenter: VOSSEBELD, Joost (University of Liverpool)

Session Classification: Friday: PM 2