

Particle Physics Annual Meeting

Report of Contributions

Contribution ID: **1**

Type: **not specified**

Welcome

Thursday, 19 May 2022 09:00 (5 minutes)

Presenter: VOSSEBELD, Joost (University of Liverpool)

Session Classification: block 1

Contribution ID: 4

Type: **not specified**

ATLAS ITK Upgrade (12+3)

Friday, 20 May 2022 10:00 (15 minutes)

Presenters: WONSAK, Sven; TBC

Session Classification: block 1

Contribution ID: 5

Type: **not specified**

ATLAS: Precision measurements and Higgs physics (12+3)

Friday, 20 May 2022 09:30 (15 minutes)

Presenter: SULLIVAN, Matthew

Session Classification: block 1

Contribution ID: 6

Type: **not specified**

New Staff Talks: Joe Carmignani - CHIST-ERA (17+3)

Thursday, 19 May 2022 09:40 (20 minutes)

Presenter: CARMIGNANI, Joseph

Session Classification: block 1

Contribution ID: 7

Type: **not specified**

ALICE (12+3)

Thursday, 19 May 2022 10:00 (15 minutes)

Presenter: CHARTIER, Marielle

Session Classification: block 1

Contribution ID: **10**

Type: **not specified**

The LHCb VeLo Upgrade (17+3)

Thursday, 19 May 2022 13:30 (20 minutes)

Presenter: HUTCHCROFT, David (University of Liverpool)

Session Classification: block 3

Contribution ID: **11**

Type: **not specified**

LHCb Physics and DPA (17+3)

Thursday, 19 May 2022 13:50 (20 minutes)

Presenter: RODRIGUES, Eduardo

Session Classification: block 3

Contribution ID: 12

Type: **not specified**

New Staff Talks: Ayushi Khatri - Mighty Tracker and MightyPix (17+3)

Thursday, 19 May 2022 14:10 (20 minutes)

Presenter: Mrs KHATRI, Ayushi

Session Classification: block 3

Contribution ID: **13**

Type: **not specified**

Mu3e (incl. future Muon EDM at PSI) (12+3)

Thursday, 19 May 2022 14:30 (15 minutes)

Presenter: HEMPSTEAD, Jason

Session Classification: block 3

Contribution ID: 14

Type: **not specified**

g-2, Mu2e and MUonE (12+3)

Thursday, 19 May 2022 14:45 (15 minutes)

Presenter: PRICE, Joe

Session Classification: block 3

Contribution ID: 15

Type: **not specified**

R&D introduction (12+3)

Thursday, 19 May 2022 15:30 (15 minutes)

Presenter: CASSE, Gianluigi (Physics)

Session Classification: block 4

Contribution ID: **16**

Type: **not specified**

HV-CMOS (12+3)

Thursday, 19 May 2022 15:45 (15 minutes)

Presenter: ZHANG, Chenfan (University of Liverpool (GB))

Session Classification: block 4

Contribution ID: 17

Type: **not specified**

Anti-neutrinos (12+3)

Thursday, 19 May 2022 16:00 (15 minutes)

Presenter: SCHNELLBACH, Yan-Jie (University of Liverpool)

Session Classification: block 4

Contribution ID: **18**

Type: **not specified**

ARIADNE+ (12+3)

Thursday, 19 May 2022 16:15 (15 minutes)

Presenter: ROBERTS, Adam

Session Classification: block 4

Contribution ID: **19**

Type: **not specified**

Proton therapy instrumentation (5+2)

Thursday, 19 May 2022 16:30 (7 minutes)

Presenter: TAYLOR, Jon

Session Classification: block 4

Contribution ID: **20**

Type: **not specified**

FCC (7+3)

Thursday, 19 May 2022 16:37 (10 minutes)

Presenter: D'ONOFRIO, Monica

Session Classification: block 4

Contribution ID: **21**

Type: **not specified**

LuxZeplin & 3rd gen. liquid Xe (12+3)

Friday, 20 May 2022 09:00 (15 minutes)

Presenter: BURDIN, Sergey

Session Classification: block 1

Contribution ID: 22

Type: **not specified**

Darkside-20k (12+3)

Friday, 20 May 2022 09:15 (15 minutes)

Presenter: TAYLOR, Jon

Session Classification: block 1

Contribution ID: 23

Type: **not specified**

MAGIS (12+3)

Friday, 20 May 2022 14:30 (15 minutes)

Presenter: Mr ELERTAS, Gedminas (University of Liverpool)

Session Classification: block 3

Contribution ID: 24

Type: **not specified**

CTA (12+3)

Friday, 20 May 2022 14:45 (15 minutes)

Presenter: GREENSHAW, Timothy (CTA)

Session Classification: block 3

Contribution ID: 25

Type: **not specified**

ATLAS: Searches for dark matter and BSM (12+3)

Friday, 20 May 2022 09:45 (15 minutes)

Presenter: SEBASTIANI, Cristiano

Session Classification: block 1

Contribution ID: 26

Type: **not specified**

FASER (12+3)

Friday, 20 May 2022 10:15 (15 minutes)

Presenter: GWILLIAM, Carl

Session Classification: block 1

Contribution ID: **28**

Type: **not specified**

SBND (12+3)

Friday, 20 May 2022 13:45 (15 minutes)

Presenters: Prof. ANDREOPOULOS, Costas (University of Liverpool and STFC/RAL); TBC

Session Classification: block 3

Contribution ID: 29

Type: **not specified**

DUNE (12+3)

Friday, 20 May 2022 14:00 (15 minutes)

Presenter: RODA, Marco (University of Liverpool)

Session Classification: block 3

Contribution ID: **30**

Type: **not specified**

T2K/Super-K (12+3)

Thursday, 19 May 2022 09:05 (15 minutes)

Presenter: TSUI, Ka Ming

Session Classification: block 1

Contribution ID: **31**

Type: **not specified**

New Staff Talks: Sam Jenkins - Hyper-K (17+3)

Thursday, 19 May 2022 09:20 (20 minutes)

Presenter: JENKINS, Sam

Session Classification: block 1

Contribution ID: **32**

Type: **not specified**

LEGEND200/1T (12+3)

Friday, 20 May 2022 14:15 (15 minutes)

Presenter: BOSTON, Andy (University of Liverpool)

Session Classification: block 3

Contribution ID: **34**

Type: **not specified**

Workshop & Advance Materials Lab

Friday, 20 May 2022 15:30 (15 minutes)

Presenter: WHITLEY, Mark

Session Classification: block 4

Contribution ID: **36**

Type: **not specified**

LSDC

Friday, 20 May 2022 15:45 (15 minutes)

Presenter: JONES, Tim

Session Classification: block 4

Contribution ID: 37

Type: **not specified**

Wrap-up

Friday, 20 May 2022 16:00 (10 minutes)

Session Classification: block 4

Contribution ID: **38**

Type: **not specified**

Year 1 Students: James Brown (1+1)

Thursday, 19 May 2022 10:15 (2 minutes)

Presenter: BROWN, James

Session Classification: block 2

Contribution ID: 39

Type: **not specified**

Year 1 Students: Ben Wade (1+1)

Thursday, 19 May 2022 10:27 (2 minutes)

Presenter: WADE, Benjamin (University Liverpool)

Session Classification: block 2

Contribution ID: 40

Type: **not specified**

Year 1 Students: Henry Throssel (1+1)

Thursday, 19 May 2022 10:25 (2 minutes)

Presenter: THROSSELL, Henry

Session Classification: block 2

Contribution ID: 41

Type: **not specified**

Year 1 Students: Alan Taylor (1+1)

Thursday, 19 May 2022 10:23 (2 minutes)

Presenter: TAYLOR, Alan

Session Classification: block 2

Contribution ID: 42

Type: **not specified**

Year 1 Students: Beth Slater (1+1)

Thursday, 19 May 2022 10:21 (2 minutes)

Presenter: SLATER, Beth (University of Liverpool)

Session Classification: block 2

Contribution ID: 43

Type: **not specified**

Year 1 Students: Rebecca Irwin (1+1)

Thursday, 19 May 2022 10:17 (2 minutes)

Presenter: IRWIN, Rebecca

Session Classification: block 2

Contribution ID: 44

Type: **not specified**

Year 2 Students: Sam Alibocus ”High Mass Drell-Yan measurements at ATLAS using Run 2 data” (6+2)

Thursday, 19 May 2022 11:00 (8 minutes)

Presenter: ALIBOCUS, Samuel

Session Classification: block 2

Contribution ID: 45

Type: **not specified**

Year 1 Students: Alexander Morgan (1+1)

Thursday, 19 May 2022 10:19 (2 minutes)

Presenter: MORGAN, Alex

Session Classification: block 2

Contribution ID: 46

Type: **not specified**

Year 2 Students: Shaikah Alsubayae "A study of secondary particle production from carbon ion beams for radiotherapy using silicon pixel detectors and water phantom" (6+2)

Thursday, 19 May 2022 11:16 (8 minutes)

Presenter: ALSUBAYAE, Shaikah

Session Classification: block 2

Contribution ID: 47

Type: **not specified**

Year 2 Students: Fajer Alqahtani "Simulation of proton and carbon ion beams for radiotherapy using TOPAS Monte Carlo software" (6+2)

Thursday, 19 May 2022 11:08 (8 minutes)

Presenter: ALQAHTANI, Fajer

Session Classification: block 2

Contribution ID: 48

Type: **not specified**

Year 2 Students: Charlotte Cavanagh "Towards First Data from FASER: Simulation to Electromagnetic Calorimeter Test Beam Studies"(6+2)

Thursday, 19 May 2022 11:24 (8 minutes)

Presenter: CAVANAGH, Charlotte

Session Classification: block 2

Contribution ID: 49

Type: **not specified**

Year 2 Students: Joel Dasari "Monitoring Nuclear Sites via Anti-Neutrino Detection" (6+2)

Thursday, 19 May 2022 11:32 (8 minutes)

Presenter: DASARI, Joel

Session Classification: block 2

Contribution ID: 50

Type: **not specified**

Year 2 Students: Ting Lee "Measurement of Higgs' Z boson associated production & decay into a b-quark pair" (6+2)

Thursday, 19 May 2022 11:40 (8 minutes)

Presenter: LEE, Ting

Session Classification: block 2

Contribution ID: 51

Type: **not specified**

Year 2 Students: Adam Lowe "ARIADNE+: Large scale demonstration of TimePix3 optical readout with novel glass THGEMs in a LArTPC at the CERN Neutrino Platform" (6+2)

Thursday, 19 May 2022 11:48 (8 minutes)

Presenter: LOWE, Adam

Session Classification: block 2

Contribution ID: 52

Type: **not specified**

Year 2 Students: Conor McPartland "A search for lepton-flavour violating $\tau \rightarrow 3\mu$ decays with the ATLAS Experiment" (6+2)

Thursday, 19 May 2022 11:56 (8 minutes)

Presenter: MCPARTLAND, Conor

Session Classification: block 2

Contribution ID: 53

Type: **not specified**

Year 2 Students: Sigrid Scherl (6+2)

Thursday, 19 May 2022 12:04 (8 minutes)

Presenter: SCHERL, Sigrid

Session Classification: block 2

Contribution ID: 54

Type: **not specified**

Year 2 Students: Adam Tarrant "Measuring the attenuation of light in WbLS" (6+2)

Thursday, 19 May 2022 16:47 (8 minutes)

Presenter: TARRANT, Adam

Session Classification: block 4

Contribution ID: 55

Type: **not specified**

Year 2 Students: Sam Woodford (6+2): A study in modelling PMT response functions for the LZ Outer Detector, and contributions to Data Quality Monitoring

Thursday, 19 May 2022 12:12 (8 minutes)

Presenter: WOODFORD, Sam

Session Classification: block 2

Contribution ID: 57

Type: **not specified**

Year 3 Students: Abbie Chadwick "Weak Mixing Angle determination using LHCb run II data, with additional VELO upgrade commissioning" (10+2)

Friday, 20 May 2022 12:24 (12 minutes)

Presenter: CHADWICK, Abbie

Session Classification: block 2

Contribution ID: 58

Type: **not specified**

Year 3 Students: Jan Hammerich "Studies of irradiated ATLASpix3.1 sensors for the LHCb MightyTracker" (10+2)

Friday, 20 May 2022 11:12 (12 minutes)

Presenter: HAMMERICH, Jan

Session Classification: block 2

Contribution ID: 59

Type: **not specified**

Year 3 Students: Leonie Hawkins (10+2)

Friday, 20 May 2022 11:24 (12 minutes)

Presenter: HAWKINS, Leonie

Session Classification: block 2

Contribution ID: **60**

Type: **not specified**

Year 3 Students: Anthony Hibbert (10+2)

Friday, 20 May 2022 11:36 (12 minutes)

Presenter: HIBBERT, Antony

Session Classification: block 2

Contribution ID: **61**

Type: **not specified**

Year 3 Students: Sean Hughes "Detector studies and software analysis with The Mu3e Experiment" (10+2)

Friday, 20 May 2022 11:48 (12 minutes)

Presenter: HUGHES, Sean

Session Classification: block 2

Contribution ID: **62**

Type: **not specified**

Year 3 Students: Jaiden Parlone (10+2)

Friday, 20 May 2022 12:00 (12 minutes)

Presenter: PARLONE, Jaiden (University of Liverpool)

Session Classification: block 2

Contribution ID: 63

Type: **not specified**

Year 3 Students: James Smith "Searches for long-lived particles with a disappearing track signature at $\sqrt{s} = 13$ TeV with ATLAS" (10+2)

Friday, 20 May 2022 11:00 (12 minutes)

Presenter: SMITH, James

Session Classification: block 2

Contribution ID: 64

Type: **not specified**

Year 3 Students: Clara Bartels "Measurement of Λ_c^+ production in Pb-Pb collisions with the ALICE experiment at the LHC" (10+2)

Friday, 20 May 2022 12:12 (12 minutes)

Presenter: BARTELS, Clara

Session Classification: block 2