

Particle Physics Annual Meeting 2025



Max Klein



It was deeply sad to lose our friend and colleague Max last summer year.

Max led our ATLAS group for many years and was a driving force behind the LHeC and FCC-eh proposals and the PERLE project.

He is still deeply missed by all of us.

Changes to the group

Welcome to New staff: Adam Lowe, Adam Tarrant, John Anders, Enoch Ejopu, Alex Tongue, Andrew Carroll, Alan Taylor, ..

and new PhD students: Razan Alshamrani, Naomi Foster, Liam Jones, Jak Woodford, Stephen Randles, Archie Hanlon, Pawan Pawan, Matthew Ockleton, Mingyu Zhang (Britta), Shirsendu Roy

You will hear more from theme in this meeting!

Farewell and huge thank you to: Carlos Chavez, Juan Leite, Cristiano Sebastiani, Akhil Kumar

Congratulations to:

Promotion to a personal chair: Carl Gwilliam

Fellowship award: Saskia Charity (STFC Ernest Rutherford & University Research Fellowship)

New major coordinating roles:

- Tara Shears LHCb-UK Spokesperson
- Monica D'Onofrio ATLAS-UK Spokesperson
- Jan Kretzschmar ATLAS Publication Committee Chair
- Eva Vilella: LHCb UK Mighty Tracker Upgrade project lead

PhDs completed in 2024



Jaiden Parlone - Integrating Updated Interaction Models and a New Multi-Ring Event Sample for a Precision 3-Flavour Neutrino Oscillation Analysis at T2K



Sam Powell - Electronics and system design for readout and evaluation of radiation tolerant HV-CMOS particle detectors



Adam Tarrant - Measuring the attenuation of light in WbLS



Sam Woodford - LZ Outer Detector: Calibrations, Data Quality, and Neutron Veto



Adam Lowe - ARIADNE: Fast optical readout of large-scale dual-phase LArTPCs for neutrino physics

Congratulations!



Sigrid Scherl - MightyPix at the LHCb Mighty Tracker



James Smith - Searches for long-lived particles with a disappearing track signature at $\sqrt{s} = 13$ TeV with ATLAS



Leonie Hawkins - Developing Atom Interferometry for a 85Rb Fountain and MAGIS-100



Jan Hammerich - LHCb MightyTracker



Ting Fung Lee - Measurement of WH/ZH production with H to bb with the ATLAS detector



Lottie Cavanagh - The FASER Experiment: Dark Photon and ALP Searches

Some general highlights

We hosted several meetings

- IOP HEP-APP-NP annual meeting co-hosted with NP group (~300 attendees)
- ITK week hosted in Liverpool (200 attendees)
- LHCb Mighty Tracker Workshop;
- Muon Precision Physics Workshop,
- MuEDM collaboration meeting

Preparing for Nufact & FASER collab. meeting this summer

Visits

- Visit of Vice-Chancellor Tim Jones to CERN
- Department visit new STFC CEO Michelle Dougherty

Major upgrade workshop completed

And most importantly our research highlights:

New physics results, progress on projects and new projects

→ see presentations in this meeting

