

Session Program

29-30 Jun 2023



Particle Accelerators and Beams Conference 2023

Parallel talks

Thursday 29 June

13:50

Parallel talks: Parallel session I (Level 1 Auditorium)

Session | **Location:** Level 1 Auditorium | **Convener:** Grace Manahan

13:50–14:05 **Terahertz-driven bunch manipulation for advanced accelerators**

Speaker

Dr Morgan Hibberd

14:05–14:20

Acceleration of a 100keV Electron Beam by Interaction with a Terahertz Pulse in a Tapered Dielectric Waveguide

Speakers

Laurence Nix, Laurence Nix

14:20–14:35

Commissioning experiment on laser-driven proton acceleration on SCAPA

Speaker

Mr Matthew Alderton

14:35–14:50

Ultra-compact X-ray free-electron laser near the cold beam limit

Speaker

Ahmad Fahim Habib

14:50–15:05

LhARA: The Laser-hybrid Accelerator for Radiobiological Applications

Speaker

William Shields

15:05

13:50

Parallel talks: Parallel session II (Conference Room 3)

Session | **Location:** Conference Room 3 | **Convener:** Jason Mill

13:50–14:05

Hybrid Electromagnet-Permanent Magnet Tuneable Optics for Low Emittance Storage Rings

Speaker

Mr Alex Hinton

14:05–14:20

GEANT4 neutrino beam simulations for the T2K experiment

Speaker

Dr Lucas Nascimento Machado

14:20–14:35

Developing a Two-Colour All-Fibre Balanced Optical Cross-Correlator for Sub-Femtosecond Synchronisation

Speaker

Jonathan Christie

14:35-14:50

Optics design of a prototype high intensity Fixed Field Alternating Gradient Accelerator (FFA)

Speakers

Shinji Machida, Shinji Machida

14:50-15:05

A double-crystal setup for LHC fixed-target experiments

Speaker

Dr Kay Dewhurst

15:05