

Session Program

25-26 Jul 2022



IOP Particle Accelerators and Beams Group Annual Conference

Parallel talks

Monday 25 July

14:00

Parallel talks: Parallel session I

Session | **Location:** University of Liverpool, building 502 Teaching Hub | **Convener:** Oznur Apsimon

14:00-14:15 Accelerator Developments at ISIS

Speaker

Mrs Hayley Cavanagh

14:15-14:30

Developing a two-colour all-fibre balanced optical cross-correlator for sub-femtosecond synchronisation

Speaker

Jonathan Christie

14:30-14:45

Study of millimeter-wave undulators for compact X-ray free-electron lasers

Speaker

Liang Zhang

14:45-15:00

Terahertz-driven manipulation of relativistic electron beams towards ultrashort bunch generation

Speakers

Morgan Hibberd, Steven Patrick Jamison

15:00

14:00

Parallel talks: Parallel session II

Session | **Location:** University of Liverpool, building 502 Teaching Hub

14:00-14:15 Injection Filling Patterns in Energy Recovery Linac

Speaker

Dr Shadike Saitiniyazi

14:15-14:30

Development of gas-jet based diagnostics at the Cockcroft Institute

Speaker

Hao Zhang

14:30-14:45

First proton beam measurements with gas jet in-vivo dosimeter for medical applications

Speaker

Narender Kumar

14:45-15:00

The Laser-hybrid Accelerator for Radiobiological Applications (LhARA)

Speaker

Titus-Stefan Dascalu

15:00

Tuesday 26 July

11:20

Parallel talks: Parallel session I

Session | **Location:** University of Liverpool, building 502 Teaching Hub | **Convener:** Louise Cowie

11:20-11:35

Experimental demonstration of the acceleration of electrons from a linear accelerator by a laser driven plasma wakefield at CLARA

Speaker

Lewis Reid

11:35-11:50

Injection for Diamond-II

Speaker

Ian Martin

11:50-12:05

Collective effects study for the Diamond-II storage ring

Speakers

Siwei Wang, Siwei Wang

12:05-12:20

Construction and measurement of tuneable permanent magnet quadrupole for Diamond Light Source

Speaker

Alexander Bainbridge

12:20-12:35

Modelling particle accelerator magnets

Speaker

Ben Pine

12:35-12:50

Hadron Therapy to the LHC: Modelling Accelerators Across Energy Scales

Speaker

Laurie Nevay

12:50

11:20

Parallel talks: Parallel session II

Session | **Location:** University of Liverpool, building 502 Teaching Hub

11:20-11:35

Combining Ion Irradiation with Transmission Electron Microscopy at the MIAMI Facility

Speaker

Graeme Greaves

11:35-11:50

Longitudinal Phase-space Characterization of Electron Bunches with THz streaking and tomography

Speaker

Daniel Lake

11:50-12:05

A Dielectric Wakefield Streaker for Longitudinal Bunch Profile Measurements

Speaker

Toby Overton

12:05-12:20

Strong Field Quantum Electrodynamics Experiments at Daresbury Laboratory

Speaker

Miles Radford

12:20-12:35

Overview of the SRF thin films programme at Daresbury Laboratory

Speaker

Daniel Seal

12:35-12:50

Performance Characterisation at Daresbury Laboratory of Cs-Te Photocathodes Synthesized at CERN

Speaker

Dr Lee Jones

12:50