

JAIfest 2015

Dennis Sciama Lecture Theatre, Level 5, Denys Wilkinson Building,

Keble Road, Oxford, OX1 3RH

Thursday 10th December 2015

9:00 – 9:30 Coffee/tea on arrival

9:30 – 11:00 Session 1 (Chair: Laura Corner, Oxford)

9:30 – 9:40 Andrei Seryi (JAI)

Welcome

9:40 – 10:00 Suzanne Sheehy (JAI, Oxford / RAL)

Latest progress toward high intensity FFAG accelerators

10:00 – 10:20 Robert Shalloo (JAI, Oxford)

Generation of Laser Pulse Trains for Tests of Multi-Pulse Laser Wakefield Acceleration

10:20 – 10:40 Oliver Ettlinger (JAI, IC)

Radiation pressure driven ion acceleration in near critical density targets

10:40 – 11:00 Peter Tudor (JAI, Oxford)

Coherent combination of fibre lasers: steps towards realistic applications

11:00 – 11:20 Coffee/Tea

11:20 – 13:00 Session 2 (Chair: Jochem Snuverink, RHUL)

11:20 – 11:20 Aakash Sahai (JAI, IC)

Positron Acceleration in a Non-linear Ion-Wake Excited by Plasma Electron Wakefields

11:40 – 12:00 Kristjan Poder (JAI, IC)

High energy and high charge electron acceleration in self guided laser wakefield accelerators

12:00 – 12:20 Ciprian Plostinar (JAI, Oxford / RAL)

Pushing beam power boundaries in proton accelerators

12:20 – 12:40 Muhammad Kasim (JAI, Oxford)

Quantitative single shot, spatially resolved plasma wakefield diagnostics

12:40 – 13:00 Boris Militsyn (Daresbury / Cockcroft Institute)

Photoinjector Development at Daresbury Laboratory

13:00 – 13:45 Lunch

13:45 – 15:45 Session 3 (Chair: Ryan Bodenstein, Oxford)

13:45 – 14:05 John Dale (DESY)

FLASHForward – beam-driven wakefield acceleration at FLASH

14:05 – 14:25 Androula Alekou (JAI, Oxford / DIAMOND)

Status of the Diamond Light Source Upgrade

14:25 – 14:45 Aiveen Finn (JAI, RHUL)

Design, development and use of the spectrometer for investigating coherent THz radiation produced by micro-bunching instabilities at Diamond Light Source

14:45 – 15:05 Huibo Zhang (JAI, Oxford)

High Power THz generation using pre-bunched electron beams

15:05 – 15:25 Hannah Harrison (JAI, Oxford)

Single short Smith-Purcell diagnostics: concept and progress

15:25 – 15:45 Peter Huggard (RAL)

Development of room temperature THz detectors at RAL

15:45 – 16:10 Tea/Coffee

16:10 – 18:10 Session 4 (Chair: Suzie Sheehy, Oxford / RAL)

16:10 – 16:30 Philip Burrows (JAI, Oxford)

Status and developments for the Compact Linear Collider

16:30 – 16:50 Robert Apsimon (University of Lancaster / Cockcroft Institute)

ProBE: Proton Boosting Extension for Imaging and Therapy

16:50 – 17:10 Andrew Lancaster (JAI, Oxford)

Continuous frequency scanning interferometry

17:10 – 17:30 Stephen Gibson (JAI, RHUL)

Advanced diagnostics at the HL-LHC, Linac4 and FETS

17:30 – 17:50 Laurie Nevay (JAI, RHUL)

Recent LHC BDSIM developments

17:50 – 18:10 Victoria Blackmore (JAI, IC)

MICE status and plans

18:10 till late Drinks reception