

Session Program

29 September 2026 to 3 October 2026

Space Charge 2026, 7th ICFA BD Mini-workshop

A

Oxford University, Physics Department, Denys Wilkinson Building, Dennis Sciama Lecture Theatre
Keble Road, Oxford OX1 3RH

Wednesday 30 September

08:45

A: Performance Review of Space-Charge-Limited Facilities

Session |

Location: Oxford University, Physics Department, Denys Wilkinson Building, Dennis Sciama Lecture Theatre, Keble Road, Oxford OX1 3RH |

Convener: Foteini Asvesta

08:45–09:05

Lead talk: Performance Review of Space-Charge-Limited Facilities

Speaker

Foteini Asvesta

09:05–09:20

Beam loss Minimization by well Mitigating the Space Charge effect at 1.5 MW beam power at J-PARC RCS

Speaker

Pranab Saha

09:20–09:35

High-intensity challenges and progress in the HIAF project

Speaker

Jiancheng Yang

09:35–09:50

High-Intensity Performance and Limits in the Fermilab Main Injector and Recycler

Speaker

Robert Ainsworth

09:50–10:05

Recent progress of the high-intensity beam commissioning in CSNS RCS

Speaker

Yaoshuo Yuan

10:05–10:30

Discussion Session A-1

Speaker

Foteini Asvesta

10:30

15:45

A: Space-Charge Measurement and Compensation Studies, Part 1 of 2

Session |

Location: Oxford University, Physics Department, Denys Wilkinson Building, Dennis Sciama Lecture Theatre, Keble Road, Oxford OX1 3RH |

Convener: Giulio Stancari

15:45–16:05

Lead talk: Space-Charge Measurement and Compensation Studies

Speaker

Giulio Stancari

16:05–16:20

Experimental Studies of Space Charge and Collective Beam Instabilities with the Fermilab Recycler Waker System

Speaker

Cristhian Gonzalez-Ortiz

16:20–16:35

Plans for space-charge compensation with electron lenses at GSI

Speaker

Dr Markus Kirk

16:35

Thursday 1 October

14:00

A: Injection, Painting, Beam Splitting and Equilibrium Distributions

Session |

Location: Oxford University, Physics Department, Denys Wilkinson Building, Dennis Sciama Lecture Theatre, Keble Road, Oxford OX1 3RH |

Convener: Nicholas Evans

14:00–14:20

Lead talk: Injection, Painting, Beam Splitting and Equilibrium Distributions

Speakers

Austin Hoover, Nicholas Evans

14:20–14:35

Dual-plane painting injection in the HIAF Booster Ring

Speaker

Guodong Shen

14:35–14:50

Avoiding Beam Instabilities and Resonances with Circular Mode Beams

Speaker

Onur Gilanliogullari

14:50–15:05

Injection Studies for the ISIS Pre-Injector Upgrade

Speaker

Billy Kyle

15:05–15:20

Space-charge effects in multi-turn extraction

Speaker

Massimo Giovannozzi

15:20–15:45

Discussion Session A-3

Speakers

Nicholas Evans, Shinji Machida

15:45

16:15

A: Space-Charge Measurement and Compensation Studies, Part 2 of 2

Session |

Location: Oxford University, Physics Department, Denys Wilkinson Building, Dennis Sciama Lecture Theatre, Keble Road, Oxford OX1 3RH |

Convener: Giulio Stancari

16:15–16:30

Circumventing Space Charge: Toward Transport-Free Tomography of High-Dimensional Phase Space in High-Intensity Linacs

Speaker

Yu Du

16:30–16:45

Emittance growth under space charge neutralization condition in LEBT

Speaker

Ippei Yamada

16:45-17:10

Discussion Session A-2

Speaker

Giulio Stancari

17:10

Friday 2 October

13:30

A: Beam Loss and Halo Dynamics

Session |**Location:** Oxford University, Physics Department, Denys Wilkinson Building, Dennis Sciama Lecture Theatre, Keble Road, Oxford OX1 3RH |**Convener:** YOICHI SATO

13:30–13:50

Lead talk: Beam Loss and Halo Dynamics

Speaker

YOICHI SATO

13:50–14:05

Observations of mismatch-driven halo in 2.5 MeV H⁻ beam at the SNS Beam Test Facility

Speaker

Mr Trent Thompson

14:05–14:20

Space Charge Effect Simulation and Tune Optimization for Reducing Beam Loss at CSNS

Speaker

Shouyan Xu

14:20–14:35

Experimental and Simulation Studies of Non-linear Resonances in the ISIS Synchrotron

Speaker

ESMAEIL AHMADI

14:35–15:00

Discussion Session A-4

Speaker

YOICHI SATO

15:00