

Session Program

29 September 2026 to 3 October 2026

Space Charge 2026, 7th ICFA BD Mini-workshop

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

Wednesday 30 September

13:30

C: Resonances and Space Charge

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

13:30–13:50

Lead talk: Resonances and Space Charge**Speaker**

Giuliano Franchetti

13:50–14:05

Resonance Studies in the SPS for High-Brightness Beams.**Speaker**

Ingrid Mases Sole

14:05–14:20

Study of beam redistribution on approach to the half integer resonance with space charge and the implications for ISIS RCS operations**Speaker**

Chris Warsop

14:20–14:35

Space charge simulation for the third order resonance corrections at J-PARC MR**Speaker**

Susumu Igarashi

14:35–14:50

Space Charge Effects in a Ring-Based Electron Cooler**Speaker**

Sergey Seletskiy

14:50–15:15

Discussion Session C-1**Speaker**

Giuliano Franchetti

15:15

Thursday 1 October

10:45

C: Instabilities and Space Charge

Session |

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

Convener: Adrian Oeftiger

10:45-11:05

Lead talk: Instabilities and Space Charge

Speaker

Adrian Oeftiger

11:05-11:20

Effects of space charge near transition energy of the CERN PS

Speaker

Miltiadis Boatzis

11:20-11:35

Space charge studies at a fourth-generation light source SOLEIL II

Speaker

Vadim Gubaidulin

11:35-11:50

Space-charge effects during operation with Landau octupoles: coherent damping and single-particle stability

Speaker

Vladimir Kornilov

11:50-12:05

Mitigation of Proton Beam Instabilities under Strong Space Charge

Speaker

David Posthuma de Boer

12:05-12:30

Discussion Session C-2

Speaker

Adrian Oeftiger

12:30

Friday 2 October

15:30

C: New Concepts

Session |

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

Convener: Elias Metral

15:30–15:50

Lead talk: New Concepts

Speaker

Elias Metral

15:50–16:05

Simulation of Crystalline Beams in the BNL Booster

Speaker

Stephen Brooks

16:05–16:20

Space-Charge Impedance in Material-Filled Beam Regions for Ionization Cooling in a Future Muon Collider

Speaker

Erik Kvikne

16:20–16:35

Space Charge effects in the muon cooling section with RF-track

Speaker

Bernd Michael Stechuner

16:35–16:50

Simulation Studies of Space Charge Effects in the 6D Rectilinear Muon Cooling Channel

Speaker

Dr Ruihu Zhu

16:50–17:15

Discussion Session C-3

Speaker

Elias Metral

17:15