

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

16:35

P: Flash Talks

Session |

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

Convener: Adrian Oeftiger

16:35–16:38

Influence of Space Charge Effects on Landau Damping in High-Intensity Hadron Synchrotrons

Speaker

Ms Jingtong Du

16:38–16:41

Space Charge Modelling with OPALX

Speaker

Alexander Liemen

16:41–16:44

Beam-Beam Simulation Models and Numerical Noises for Flat Beam Collisions in the Electron-Ion Collider

Speakers

Yun Luo, Yun Luo

16:44–16:47

A Prototype FFA Magnet for High-Power Pulsed Proton Drivers

Speaker

Jean-Baptiste Lagrange

16:47–16:50

When Mismatch Is Inherent: Mismatch Partitioning Between H^+ and H^- in Dual-Beam Transport with Strong Space Charge

Speaker

Yinqi Ji

16:50–16:53

Reducing intrabeam stripping loss with angular momentum distributions

Speaker

Shivam Kakkar

16:53–16:56

Differentiable Self-Consistent Space-Charge Mapping Using Differential Algebra and a Truncated Green's Function Solver

Speaker

Prof. Chong Shik Park

16:56–16:59

Electromagnetic Space-Charge Fields in a Cylindrical RF Cavity with an Axial Aperture

Speaker

Prof. Chong Shik Park

	16:59-17:02 Fast frozen indirect space charge modelling Speaker Robert Simpson
	17:02-17:05 Landau Damping with Space Charge in the LHC Speaker Max Topp-Mugglestone
17:30	17:05-17:08 A novel method for simulating space-charge in Fixed Field Accelerators (FFAs) Speaker Carl Jolly
17:30	
19:30	P: Poster Session Session Location: Oxford University, Physics Department, Denys Wilkinson Building, Dennis Sciama Lecture Theatre, Keble Road, Oxford OX1 3RH Convener: Adrian Oeftiger

Thursday 1 October

17:10

P: Flash Talks

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

17:10-17:13

Analysis of adiabatic trapping and transport phenomena for an accelerator model with space-charge forces

Speaker

Francesco Orso Pancaldi

17:40

17:40

P: Poster Session

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18:30