

International Conference on Ion Sources 2025

Monday, 8 September 2025

Oral Session: Monday Session 1 (Session Chair: Dan Faircloth) (09:30 - 10:40)

time	[id] title	presenter
09:30	[32] Overview of the Heavy Ion Physics Programme at CERN – Current and Future Ion Source Requirements and Challenges	KÜCHLER, Detlef
10:00	[34] CW operation of high-current deuteron injector for the Linear IFMIF Prototype Accelerator (LIPAc)	AKAGI, Tomoya
10:20	[137] The gasdynamic ECR ion source developed at IMP and its preliminary results	ZHAO, Huanyu

Oral Session: Monday Session 2 (Session Chair: Robert Welton) (11:10 - 12:50)

time	[id] title	presenter
11:10	[127] Beam extraction and transport for high current ribbon-beam ion implanters	Dr PEREL, Alexander
11:40	[170] Ion sources in medical isotope production - requirements, trends, and limitations	JARVINE, Allan
12:10	[59] Ion source life and defect control for ion implanters used in semiconductor device manufacturing	HSIEH, TSEH-JEN
12:30	[62] Overview of ion sources for alternative fusion concepts	HEPNER, Shadrach

Oral Session: Monday Session 3 (Session Chair: Mahendrajit Singh) (14:10 - 15:50)

time	[id] title	presenter
14:10	[42] Role of NBI ion sources in achieving the world-record fusion power at JET	KING, damian
14:40	[43] NBI for W7-X: A Four Operational Campaign Overview	MCNEELY, Paul
15:00	[44] Optimization of the large-area RF negative ion source for long-pulse and high-power operation on CRAFT NNBI test facility	Ms YANG, Yuwen
15:20	[124] Investigations on symmetrizing the plasma properties in the expansion region of large RF ion source via magnetic fields	YORDANOV, Dimitar

Tuesday, 9 September 2025

Oral Session: Tuesday Session 1 (Session Chair: Shixiang Peng) (08:40 - 10:40)

time	[id] title	presenter
08:40	[77] Review of ion sources for charged particle radiotherapy - status, challenges and future trends	KITAGAWA, Atsushi
09:10	[12] Overview and performance of the MAST Upgrade Neutral Beam Injectors.	NICASSIO, Maria
09:30	[174] Silvaco Exhibitor Talk	PATTERSON, Andrew Dr GREEN, David
09:40	[17] Theoretical and numerical study of the ECRIPAC accelerator concept	CERNUSCHI, Andrea
10:00	[138] Space Charge Compensation in Negative Hydrogen Ion Beams: A Particle-In-Cell Study	JONATHAN, Kiran
10:20	[154] Electron Cyclotron Resonance Supernanogan Ion Source Commissioning for the Sarajevo Ion Accelerator (SARAI)	AJANOVIC, Amer

Oral Session: Tuesday Session 2 (Session Chair: Rick Vondrasek) (11:10 - 12:50)

time	[id] title	presenter
11:10	[125] The role of ECR ion sources in superheavy element synthesis	BENITEZ, Janilee
11:40	[130] Development of key technologies for 4th generation ECR ion sources- microwave launching and innovative solutions for plasma chamber cooling	Dr GUO, Junwei
12:10	[90] FECR: A 28~45 GHz Next Generation Ion Source and Its First Results	SUN, Liangting
12:30	[110] Prospects and challenges of the next generation highly-charged ECR ion source	Prof. ZHAO, Hongwei

Oral Session: Tuesday Session 3 (Session Chair: Haruhisa Nakano) (14:10 - 16:00)

time	[id] title	presenter
14:10	[167] Diagnostic beam for ITER (INTF): Status and accompanying research	Dr SINGH, Mahendrajit J.
14:40	[50] Beam current performance in the ITER negative ion source prototype SPIDER	SHEPHERD, Alastair
15:00	[54] Characterization of the properties of negative hydrogen ion beam of CRAFT NNBI test facility	XU, Yongjian
15:20	[106] Investigating the origin of the pressure dependence on the beam divergence at an RF negative hydrogen ion source	WIMMER, Christian
15:40	[157] Overlap of Plasma and Beam Properties in ITER-Relevant Negative Ion Sources	WÜNDERLICH, Dirk

Wednesday, 10 September 2025

Oral Session: Wednesday Session 1 (Session Chair: Atsushi Kitagawa) (09:00 - 10:40)

time	[id] title	presenter
09:00	[111] Developments for Target-Ion-Sources at TRIUMF towards the ARIEL era	AMES, Friedhelm
09:30	[21] Performance of the Brillouin Electron Gun at the TwinEBIS Test Bench	GUNNARSSON, Anton
09:50	[175] Prodigy Exhibitor Talk	JING, Geyun WANG, Xu LI, Zhiqi
10:00	[123] Reimagining FEBIAD Ion Sources: From Design Innovation to Performance Optimization	MALDONADO MILLAN, Fernando
10:20	[108] Towards a high-throughput laser ion source for CERN-MEDICIS	IVAYLOVA MANCHEVA, Ralitsa

Oral Session: Wednesday Session 2 (Session Chair: Fredrik Wenander) (11:10 - 12:50)

time	[id] title	presenter
11:10	[14] Plasma diagnostics of charge breeder ECR ion sources	ANGOT, Julien
11:40	[23] Closed Shell Charge Breeding of Radioactive Fission Products with an Electron Beam Ion Source	VONDRASEK, RICHARD
12:10	[113] Design of a hollow hexapole applicable to ECR charge breeder to mitigate the plasma contamination by sputtering	THUILLIER, Thomas
12:30	[139] Radioactive ion beam development at SPIRAL1-GANIL: recent progress and future developments	CHAUVEAU, Pierre

Thursday, 11 September 2025

Oral Session: Thursday Session 1 (Session Chair: Hongwei Zhao) (08:40 - 10:45)

time	[id] title	presenter
08:40	[9] Experimental investigation on ECR ion source plasma towards more intense highly charged ion beam production	Dr LI, Jibo
09:10	[15] High Resolution Optical Emission Spectroscopic Study of the ECR Plasma in the GTS-LHC Ion Source	BHASKAR, Bichu
09:30	[177] Brightness Award Presentation	
09:45	[26] Conversion of a positive ion into a negative ion and a neutral atom: formation processes from a few keV to MeV energies	TER-AVETISYAN, Sargis
10:05	[57] Implementation of a temperature and density monitoring diagnostic for the LANSCE negative ion source	ROHDE, Charles
10:25	[67] Beam optics analysis by visible cameras applied for the first time to a large-scale multi-beamlet configuration in the ITER prototype source	Ms EMMA, Giulia

Oral Session: Thursday Session 2 (Session Chair: Damian King) (14:10 - 16:00)

time	[id] title	presenter
14:10	[81] Ultra-low work function surfaces for H^+D^+ ion sources	KLOSE, Nikolas
14:40	[24] Application and Effects of Introducing Low Frequency Electromagnetic Waves in Electron Cyclotron Resonance Ion Source	Mr KATO, Yushi
15:00	[122] Numerical design and experimental characterization of an innovative, 3D-printed, 'plasma-shaped' cavity for ECR Ion Sources	MAURO, Giorgio Sebastiano
15:20	[134] The high-energy tail of the EEDF and its impact on H^+ volume ion sources	FRIEDL, Roland
15:40	[145] X-ray imaging and spectroscopy of space- and time-dependent phenomena in ECRISs to investigate fundamental plasma processes	NASELLI, Eugenia

Oral Session: Thursday Session 3 (Session Chair: Thomas Thuillier) (16:30 - 17:40)

time	[id] title	presenter
16:30	[99] Superconducting magnet structures and developments for 4th Generation ECR ion sources	FERRACIN, Paolo
17:00	[53] BNCT ECR Discharge Chamber Low SWR Design and Beam Experiments	Ms □, □□
17:20	[140] PIBHI 2025 workshop: open mind discussions on ECR ion sources	CELONA, Luigi

Friday, 12 September 2025

Oral Session: Friday Session 1 (Session Chair: Ursel Fantz) (09:00 - 11:00)

time	[id] title	presenter
09:00	[131] Negative ion sources for accelerators - status and future prospects	Dr WELTON, Robert
09:30	[149] Medium to high Z-ion beams from laser-plasma interactions	BORGHESI, Marco
10:00	[8] The High Intensity Polarized Proton Source	ATOIAN, Grigor
10:20	[25] Optimization for RF-driven H- source and low energy beam transport for CSNS-II	CHEN, Weidong
10:40	[97] Advancing H- injector beam intensity frontier at high duty-factor for multi-megawatt proton accelerators	Dr HAN, Baoxi