International Conference on Ion Sources 2025

Monday, 8 September 2025

Poster Session: Session 1 **(16:30 - 18:00)**

[id] title	presenter	board
[60] Research on He Ion Beam Generation Technology for Tandem Accelerators and Experimental Optimization	Mr □, □	
[37] Design and Implementation of an Online Beam Current and Stability Monitor for the UMCG-PARTREC AECR Ion Source	KREMERS, Herman	
[46] Model Improvement for Isotope Effects in a Negative Ion Source Using KEIO-MARC and Rate Equation Model	SOEJIMA, Hayato	
[58] First operational results of IRISC assessed via optical emission spectroscopy	LEÓN LÓPEZ, Miguel	
[55] Beam current characteristics of negative ion source on EVISS by C12A7 electride	NAKANO, Haruhisa	
[69] Development of advanced electromagnetic PIC code for the study of RF negative ion sources	MIYAMOTO, Kenji	
[79] Investigating the Potential of an ECR Large-Area Plasma Source for Hydrogen Negative Ion Production in Fusion Applications	NAIK, Bibekananda	
[84] Overview of Cs evaporation control and monitoring in the ITER negative ion source prototype SPIDER	Mr POURADIER DUTEIL, Basile	
[92] Ion Source Characterization using Integrated Data Analysis	Dr SHOWERS, Melissa	
[121] Beam intensity prediction using machine learning and plasma images	MORITA, Yasuyuki	
[126] AI Tools for Plasma Diagnostics by X-ray Imaging and Spectroscopy in ECR plasmas	Dr NASELLI, Eugenia	
[148] Simulation of the ALISES 3 Plasma Chamber	BARANT, Mathias DELFERRIERE, Olivier	
[156] Comparison of the RF power coupling efficiency for 1.0 and 1.7 MHz at BATMAN Upgrade	CHERUKULAPPURATH MANA, Anil	
[142] Optical Emission Spectroscopy as non-invasive tool for beam stability monitoring at MedAustron Therapy Center	GAMBINO, Nadia	
[100] A data driven Model of the Existing and Optimal Cs Delivery into the LANSCE H$^-$ Ion Source	Dr KLEINJAN, David	
[105] Recent advancements and hydrogen plasma experiments in RF based two driver negative ion source (Twin source) at IPR	Dr BANSAL, GOURAB	
[171] Positive Ion Source Technology Demonstration for DIII-D Neutral Beam Heating	Prof. LAGGNER, Florian M.	
[5] Plasma characterization and technological application of a heater less hollow cathode plasma source with C-shape scanning device	SHENGFU, Zhao	
[11] Towards NIO2, a 5 kW RF compact H- ion source	Dr CASTRO, Giuseppe	
[36] Large scale discharge space for penning negative hydrogen ion source	SHENGJIN, LIU	
[68] Modelling the spatial and temporal dynamics of Cs inside the BATMAN Upgrade source using the CsFlow3D code	MUSSINI, Daniele	

[94] Production of negative helium ions via transmission through nano-foils	JACKLE, Philip	
[71] Plasma parameter measurement during efficiently producing multicharged ions by selectively heating low-Z ions on Electron Cyclotron Resonance Ion Source in mixing low-Z gases	TOKUNO, Shinji	
[75] Comparison of Performance Efficiency of Different Types of RF Antennas for Permanent Magnet-based Helicon Plasma Source via Finite Element Simulations	ALLI, AMARDAS	
[86] Probing ECR Plasmas through Light: Spectroscopic Analysis of Hydrogen, Helium, and Neon Discharges	CASTRO, Giuseppe	
[98] Development of an Optical Diagnostics System for Arc Discharge Ion Sources	SAKIELDIEN, Moenir	
[144] Scintillating fiber and perovskite-based sensors for X-ray diagnostics on ECR plasmas	MAURO, Giorgio Sebastiano	
[31] Vacuum Brazing Process for Large-Scale Grid Production for Negative Ion Source Application	PANDEY, Ravi	
[104] Development of a 120 kV high power ion source prototype for neutral beam injector	XIE, yahong	
[101] A compact 35 keV ECR proton ion source with advanced chopping for neutron source applications	ANDA, Gábor	
[10] Diagnostics for characterization of neutral beams parameters at TCV	Dr KARPUSHOV, Alexander N.	
[39] Investigation of plasma transport through a neutral gas layer in a high-repetition-rate laser ion source.	HASEGAWA, Jun	
[65] Emittance measurement of ion beam current in selectively heating low Z ions on electron cyclotron resonance ion source in mixing low Z gases	IDE, Akinobu	
[66] Low-energy charged particle extraction from an RF-driven negative hydrogen ion source	SHINTO, Katsuhiro	
[82] On the pronounced increase of the co-extracted electron current during long pulses in H-/D- negative ion sources for fusion	Mr RUBIN, Joey	
[112] Development progress of negative beam source for the CRAFT NNBI	HU, Chundong	
[172] Development and First Results from SupRISE: An RF-Driven Ion Source for Neutral Beam Injection	Dr CROWLEY, Brendan	

Tuesday, 9 September 2025

Poster Session: Session 2 (16:30 - 18:00)

[id] title	presenter	board
[16] The effect of space-charge neutralization on charge breeding performance	Dr WENANDER, Fredrik	
[27] Advancements in the Antenna Based Miniaturized 2.45 GHz Permanent Magnet ECR Ion Source at Peking University	CUI, Bujian	
[63] Modeling and Operation of an Electromagnetic Isotope Separation System for Ytterbium-176 Production	JARVINE, Allan	
[33] Developments towards autonomous optimisation and stabilisation of the CERN GTS-LHC ion source	KÜCHLER, Detlef	
[35] Basic Commissioning of the ELIMED Line: challenges in the selection and extraction of a laser-driven beam	SCHILLACI, Francesco	
[56] Development of HECRAL-C: A Cryogen-Free Hybrid Superconducting ECR Ion Source for Milliampere-Level C^4 Ion Beam Production	QIAN, Cheng	
[64] Current status of the cesiated RF-driven negative hydrogen ion source and its R&D activities for future facility projects at J-PARC	SHINTO, Katsuhiro	
[160] Progress towards 28 GHz operations of ECR ion sources at the Facility for Rare Isotope Beams (FRIB)	MACHICOANE, Guillaume	
[83] LAMP ion source commissioning and future plans	ALEXANDER, Anna	
[85] Plasma Conditions for High-Intensity He^{2+} Beams: A Semi-Empirical Modeling Approach	CASTRO, Giuseppe	
[102] Ion Sources for CRYRING@ESR	VOROBYEV, Gleb	
[107] Recent LANSCE efforts on improving H+ duoplasmatron capabilities	ALEXANDER, Anna	
[116] Hot Liner for the Production of Metallic Ion Beams from an ECR at GSI	MAIMONE, Fabio	
[153] Mixed carbon and helium ion beams for simultaneous heavy ion radiotherapy and radiography – recent advances and perspectives	Dr GALONSKA, Michael	
[151] Solid state amplifier for a 2,45 GHz high intensity proton source	TUSKE, Olivier	
[146] Numerical Analysis of the Influence of Plasma Parameters on the 1+ Beam Capture in the ECR-based Charge Breeder	GALATÀ, Alessio	
[133] Ion Beam Emittances of Intense Highly Charged Ion Production from the RIKEN 28GHz SC-ECRIS	SAQUILAYAN, Glynnis Mae	
[51] From ECR Ion Source to Electrostatic Thruster	BELLET, Romain	
[4] RF ion source of Hydrogen ions,	DUDNIKOV, vadim	
[7] Long-Lived Radioactive Beam Upgrade at TRIUMF-ISAC	Dr CHARLES, Christopher	
[20] Magnetic field Investigations of the ATLAS ECR Ion Sources	MCLAIN, Jake	
[22] On the comprehensive characterization of the thermally optimized SPES Laser Ion Source	KHWAIRAKPAM, Omorjit Singh	
[103] Intense Metallic Ion Production and Operation with Electron Cyclotron Resonance (ECR) Ion Sources at the Institute of Modern Physics	LU, Wang	
[115] Status and Development with CANREB at TRIUMF	SCHULTZ, Brad	
[29] Progresses on compact carbon positive ion mass spectrometry (C-PIMS) at Peking University	ZHU, Jianbin	

[91] On-Line production of SnS radioactive ion beams with the ISOL technique	CHEIKH MHAMED, Maher	
[73] ELIMAIA-ELIMED beamline – a new opportunity for radiobiological research with laser-driven protons	BLÁHA, Pavel	
[161] First commissioning results of the MIST-2 ion source for the High-Current H2+ Cyclotron HCHC-XX	WINKLEHNER, Daniel	
[128] Bremsstrahlung Heat load Scaling Measurements for Future ECRIS Cryostat	CHEN, Miles	
[159] Beams production optimisation on ECR4/4M ion sources at GANIL cyclotrons facility	DUBOIS, Mickael	
[6] The development of the ion source and target for BRISOL facility	T, Bing	
[61] Proof-of-Principle Microwave Plasma Cathode Source toward Negative Ion Production	SHIMABUKURO, Yuji	
[117] Investigation of an Internal Antenna Design for an RF ion source	GEORGE, Anand	
[3] Recent progress with Diagnostic Neutral Beam at TCV tokamak	LISTOPAD, ALEKSANDR	
[38] Thermal and plasma modeling of a hot cavity ion source for radioactive ion beam production at ISOL@MYRRHA	QUANJEL, Lennert	
[72] Development of deuterium-deuterium compact neutron source	PÉREZ SEGURA, Andoni	
[76] The effect of gas mixing on the afterglow transient of beams extracted from an electron cyclotron resonance ion source	TOIVANEN, Ville	
[173] The target-ion source system for the SPES facility commissioning: design, development and online testing	BALLAN, Michele	

Thursday, 11 September 2025

Poster Session: Session 3 (11:15 - 13:00)

[id] title	presenter	board
[47] ES-PIC simulation of volume- and surface-produced H- ion trajectories	SHIBATA, Takanori	
[19] Influence of microwave parameters on the afterglow beam	□, □□	
[18] Broadband electron gun design for a 5T solenoid EBIS for cancer therapy accelerators	ETXEBARRIA ERDOIZA, Jone	
[28] Investigation into Transient Processes in Electron Cyclotron Resonance	DONG, Yicheng	
[45] Extraction and emittance characterization of high-intensity ion beams from a laser ion source	Mr ZHANG, Junjie	
[80] Directional Control of Ablation Plasma in a Laser Ion Source Using a Permanent Magnet	TAKAHASHI, Kazumasa	
[95] Operation and Optimization of a Negative Hydrogen Ion Source for BNCT Applications	VEKSELMAN, Vladislav	
[93] A Penning Ion Source for Stable Isotope Beam Production at TRIUMF-OLIS	WARFIELD, Ben	
[132] Numerical Investigations of Coulomb Collisions and Energy Conservation in a Particle-in-Cell Model for Ion Source Applications	DEGUIRE, Jasmin	
[147] Numerical Validation of a New Extraction System for the ECR Source LEGIS at INFN-Legnaro National Laboratories	GALLO, Carmelo Sebastiano	
[40] First experimental evaluation of the Forced Electron Beam Induced Arc Discharge (FEBIAD) ion source for the RAON ISOL system	HAN, Je Hwan	
[74] Outcomes and Perspectives Arising from Particle-in-Cell Simulation of ECR Ion Sources	Dr NERI, Lorenzo	
[155] Integrated Design, Simulation, and Fabrication of a PIG Ion Source Accelerator for Functional Materials Research	MOR, Manjeet	
[150] Beam dynamics calculations of the ADIGE injector for the SPES Project	GALATÀ, Alessio MASCALI, Giada Rachele	
[169] A Tunable Permanent Magnet Quadrupole with Openable Design for In-Situ Installation	Dr ANDA, Gábor	
[2] Impedance Characteristics and Sputtering Behaviour of Two Pulsed DC Arc Discharge H- Sources	TARVAINEN, Olli	
[13] Commissioning status of a combined RFQ Cooler with axial magnetic field in the Eltrap machine	GALATÀ, Alessio	
[87] Overview of Ion Beam Delivery Program at Avalanche Energy	HEPNER, Shadrach	
[129] Decelerating beamline design of an ECR ion source at Avalanche Energy	HEPNER, Shadrach	
[165] Comparative Study of CW and Pulsed 13 MHz vs 27 MHz RF Plasma Ignition Systems for H Ion Source Operation at SNS	Dr HAN, Baoxi WELTON, Robert Dr NARAYAN, Amith Hulikal PILLER, Chip	
[48] Status of ECR ion source at RAON	HEO, Jeongil	
[30] Beam energy spread of a filament-type Penning Ionization Gauge Ion Source for a compact ion microbeam system	Dr ISHII, Yasuyuki	
[49] ASTERICS ion beam extraction : system optimization by simulation	HARS, Quentin	

[52] The effect of the oscillation of plasma parameters on the beam extraction in RF negative ion source	HAYASHI, Katsuya	
[78] Experimental Validation of a Double-Gridded Lens System for High-Frequency RFQ Injection	MAMARAS, Aristeidis	
[96] Space Charge Modeling for Negative Ion Beam Transport: A PIC Study	DASH, Sidharth	
[118] Modeling of 1D DC Discharges Using Various Particle-in-Cell Schemes	SAVARD, Nicolas	
[162] Design of a Permanent Magnet System for the Production of Closed Resonance Surfaces in Microwave Discharge Ion Sources	HINTON, Alex	
[168] Stationary Transverse Striations in Medium-Energy, High-Current Ion Beams	WILSON, Elijah	