

Monday, 29-AUG, 2016

Special session

- MOAO01** **Scaling Laws in Electron Cyclotron Resonance Ion Sources**
 09:40 Presenting author: Claude M Lyneis - Lawrence Berkeley National Laboratory

Status reports and new development I

- MOBO01** **FECRAL - a 45 GHz Fourth Generation ECR Ion Source and Its Technical Challenge**
 10:40 Presenting author: Hongwei Zhao - Institute of Modern Physics, Chinese Academy of Sciences
- MOBO02** **Optimizations of Existing Magnet Structures for the Next Generation of ECRIS**
 11:00 Presenting author: Daniel Xie - Lawrence Berkeley National Laboratory
- MOBO03** **Current Status of a SC-ECRIS of the RAON Accelerator.**
 11:20 Presenting author: Yonghwan Kim - Institute for Basic Science
- MOBO04** **Recent Developments of RIKEN 28 GHz SC-ECRIS**
 11:40 Presenting author: Yoshihide Higurashi - RIKEN Nishina Center

Plasma investigations I

- MOCO01** **Innovative Schemes of Plasma Heating for Future Multiply-Charged Ions Sources: Modeling and Experimental Investigation**
 13:30 Presenting author: David Mascali - Istituto Nazionale di Fisica Nucleare Laboratori Nazionali del Sud
- MOCO02** **Broadband Microwave Emission Spectrum Associated With Kinetic Instabilities in ECR Plasmas**
 13:50 Presenting author: Ivan Izotov - Institute of Applied Physics Russian Academy of Sciences

MOCO03 Cavity Tuning Experiments with the JYFL 14 GHz ECRIS

14:10 Presenting author: Olli Tarvainen - University of Jyväskylä Department of Physics

MOCO04 Recent Bremsstrahlung Measurements from the Superconducting Electron

14:30 Cyclotron Resonance Ion Source VENUS

Presenting author: Janilee Yvette Benitez - Lawrence Berkeley National Laboratory

Plasma investigations II

MOD001 Structural Information on the ECR Plasma by Spatially Resolved X-ray

15:20 Imaging

Presenting author: Richárd Rácz - Hungarian Academy of Sciences Institute of Nuclear Research

MOD002 Angular Distributions of Bremsstrahlung X-ray Emission from ECR

15:40 Plasma

Presenting author: Mwingereza John Kumwenda - Korea University

RF generation and transport

MOEO01 Microwave Power Injection Schemes Study at IMP with Superconducting ECR

16:00 Ion Source SECRAL

Presenting author: Junwei Guo - Institute of Modern Physics, Chinese Academy of Sciences

Charge Breeding

MOFO01 SPIRAL1 Charge Breeder: Performances and Status

16:40 Presenting author: Laurent Maunoury - Grand Accélérateur Nat. d'Ions Lourds

MOFO02 Comparison of Residual Background in an ECR and an EBIS

17:00 Presenting author: Richard Vondrasek - Argonne National Laboratory

MOFO03 Simulations of the ECR-based Charge Breeding Process at INFN: Status and Perspectives

17:20 Presenting author: Alessio Galatà - Istituto Nazionale di Fisica Nucleare Laboratori Nazionali di Legnaro

Tuesday, 30-AUG, 2016

Status reports and new development II

TUAO01 **The Proton Source for the European Spallation Source (PS-ESS): Installation and Commissioning at INFN-LNS**
09:00

Presenting author: Luigi Celona - Istituto Nazionale di Fisica Nucleare
Laboratori Nazionali del Sud

TUAO02 **The Development of ECR Ion Source for Medical Applications**

09:20

Presenting author: Byoung Seob Lee - Korea Basic Science Institute Busan
Center

TUAO03 **Injector Characteristics of 100-MeV Proton Linac at KOMAC**

09:40

Presenting author: Han-Sung Kim - Korea Atomic Energy Research Institute

TUAO04 **SECRAL II Ion Source Development and the First Commissioning at 28 GHz**

10:00

Presenting author: Liangting Sun - Institute of Modern Physics, Chinese
Academy of Sciences

TUAO05 **First Plasma of the PHOENIX V3 ECR Ion Source**

10:20

Presenting author: Thomas Thuillier - Laboratoire de Physique Subatomique et
de Cosmologie Université Grenoble-Alpes, CNRS/IN2P3

Theory

TUBO01 **Optimization of Magnetic Field Distribution of RIKEN 28 GHz SC-ECRIS for Intense Beam Production**
11:00

Presenting author: Takahide Nakagawa - The Institute of Physical and
Chemical Research Accelerator Research Facility Cyclotron Center

TUBO02 **Numerical Studies of the Gas-Mixing Effect in ECRIS**

11:20

Presenting author: Vladimir Mironov - Joint Institute for Nuclear Research

TUBO03 **Simulations of High Intensity Low Mass Ion Sources**

11:40

Presenting author: Remi de Guiran - Commissariat à l'Energie Atomique
Institute of Research into the Fundamental Laws of the Universe Service des
Accélérateurs, Cryogénie et Magnétisme

Wednesday, 31-AUG, 2016

Status reports and new development III

- WEAO01** Recent Developments with the GTS-LHC ECR Ion Source at CERN
09:00 Presenting author: Ville Toivanen - European Organization for Nuclear Research
- WEAO02** Preliminary Design of a Hybrid Ion Source for 7Li+3 Generation
09:20 Presenting author: ShiXiang Peng - Peking University Institute of Heavy Ion Physics
- WEAO03** Practical Comparison of Two-Frequency Heating Phenomena in Different ECRISs
09:40 Presenting author: Atsushi Kitagawa - National Institute of Radiological Science
- WEAO04** Installation and Commissioning of the 18 GHz High Temperature Superconducting Ecr Ion Source and Low Energy Beam Transport System on a 200 kV High Voltage Platform
10:00 Presenting author: Dr. Gerard Oscar Rodrigues - Inter University Accelerator Centre
- WEAO05** SMASHI and MeLA ECR Ion Source at NFRI: One for Highly-Charged Ions and the Other for High Current Metal Ions
10:20 Presenting author: Hyun-Jong You - National Fusion Research Institute

Applications

- WEBO01** An ECRIS Facility for Investigating Nuclear Reactions in Astrophysical Plasmas
11:00 Presenting author: Martin Kreller - DREEBIT GmbH
- WEBO02** Design of New Compact ECR Ion Source for C5+ Production
11:20 Presenting author: Masayuki Muramatsu - National Institute of Radiological Sciences Division of Accelerator Physics and Engineering
- WEBO03** In-situ Observation of Phase Transformation During Ion Beam Irradiation
11:40 Presenting author: Jonghan Won - Korea Basic Science Institute Advanced Nano Surface Team

Beam extraction & optics

- WECO01** Intermediate Commissioning Results of the ECR Injector of IFMIF/LIPAc
13:30 Required to Deliver 70 mA/50 keV H⁺ and 140 mA/100 keV D⁺ Beams
Presenting author: Benoit Bolzon - Commissariat l'Energie Atomique Institut de recherche sur les lois fondamentales de l'Univers (IRFU) Service des Accélérateurs, Cryogénie et Magnétisme
- WECO02** Development of a Compact High Intensity Ion Source for Light Ions at
13:50 CEA-Saclay
Presenting author: Olivier Delferriere - Commissariat à l'Energie Atomique Institute of Research into the Fundamental Laws of the Universe Service des Accélérateurs, Cryogénie et Magnétisme
- WECO03** Study of Ion Beam Extraction from an ECRIS: Beam Transverse Coupling and
14:10 High Order Compensation
Presenting author: Yao Yang - Institute of Modern Physics, Chinese Academy of Sciences
- WECO04** Progress of an Intense Ion Source and Low Energy Beam Transport System
14:30 for Jinping Underground Nuclear Astrophysics Experiments
Presenting author: Qi Wu - Institute of Modern Physics, Chinese Academy of Sciences

Poster session

- WEPP01** Acceleration of the SILHI Source Beam at CEA/Saclay
15:20 Presenting author: Raphael Gobin - Commissariat à l'Energie Atomique Direction des Sciences de la Matière Institut de recherche sur les lois fondamentales de l'Univers
- WEPP02** Commissioning of the High Intensity Proton Injector of the Facility for Anti
15:20 Proton and Ion Research at CEA-Saclay
Presenting author: Olivier Tuske - Commissariat à l'Energie Atomique Institute of Research into the Fundamental Laws of the Universe Service des Accélérateurs, Cryogénie et Magnétisme
- WEPP03** Never Run Your ECR Ion Source with Argon in Afterglow for 6 Months!
15:20 Presenting author: Detlef Kuchler - European Organization for Nuclear Research AB Department

WEPP04 Development and Performance ECR Ion Source for Deuterium Ion Irradiation Facility
15:20

Presenting author: Sudhirsinh J Vala - Institute for Plasma Research

WEPP05 Status Report on Metallic Beam Production at GANIL/SPIRAL 2

15:20

Presenting author: Christophe Barue - Grand Accélérateur Nat, d'Ions Lourds

WEPP06 First Experiments on Applying the Gasdynamic ECR Ion Source for Negative Hydrogen Ion Production
15:20

Presenting author: Vadim Skalyga - Institute of Applied Physics Russian Academy of Sciences

WEPP07 H⁺ and D⁺ High Current Ion Beams Formation from ECR Discharge Sustained by 75 GHz Gyrotron Radiation
15:20

Presenting author: Vadim Skalyga - Institute of Applied Physics Russian Academy of Sciences

WEPP08 Development of Compact H⁺ ECR Ion Source with Pulse Gas Valve

15:20

Presenting author: Yasuhiro Fuwa - Kyoto University Institute for Chemical Research Advanced Research Center for Beam Science

WEPP09 Development of a New Compact 5.8 GHz ECR Ion Source at LPSC

15:20

Presenting author: Julien Angot - Laboratoire de Physique Subatomique et de Cosmologie Université Grenoble-Alpes, CNRS/IN2P3

WEPP10 Recent Work of High Intensity Beam Production With LECR4 Ion Source

15:20

Presenting author: Liangting Sun - Institute of Modern Physics, Chinese Academy of Sciences

WEPP11 All Permanent Magnet ECRISs for Heavy Ion Medical Machine at IMP

15:20

Presenting author: Liangting Sun - Institute of Modern Physics, Chinese Academy of Sciences

WEPP12 ECR Ion Sources Operation for HIRFL

15:20

Presenting author: Xuezhen Zhang - Institute of Modern Physics, Chinese Academy of Sciences

WEPP13 Development of a 14GHz Intense Proton Source With Ultra-Low Consumption of Hydrogen Gas
15:20

Presenting author: Qi Wu - Institute of Modern Physics, Chinese Academy of Sciences

WEPP14 A New ECRIS Installation at the Argonne Tandem Linac Accelerator System

15:20

Presenting author: Robert Scott - Argonne National Laboratory

WEPP15 Design, Construction and Commissioning of the New Superconducting Source
15:20 AISHa

Presenting author: Luigi Celona - Istituto Nazionale di Fisica Nucleare
Laboratori Nazionali del Sud

WEPP16 Beam Profile Measurements of $^{12}\text{C}^{4+}$ Ion Beam From SMASHI

15:20

Presenting author: Wonil Choo - National Fusion Research Institute

WEPP17 Plasma Characteristics of a New High Current Metal Ion Source at NFRI

15:20

Presenting author: Soouk Jang - National Fusion Research Institute

WEPP18 Innovative Mechanical Solutions in the Design of the High Intensity Proton
15:20 Injector for the European Spallation Source

Presenting author: Luigi Celona - Istituto Nazionale di Fisica Nucleare
Laboratori Nazionali del Sud

WEPP19 A Study on the Superconducting Magnets for Raon 28 GHz ECR Ion Source

15:20

Presenting author: Jeong Il Heo - Institute for Basic Science

WEPP20 Superconducting Magnets Design and Fabrication of 28 GHz Electron
15:20 Cyclotron Resonance Ion Source for Heavy Ion Accelerator Facility at KBSI

Presenting author: Jonggi Hong - Korea Basic Science Institute Busan Center

WEPP21 Analysis and Design of Impedance Matching Unit for Radio Frequency Ion
15:20 Source

Presenting author: Yahong Xie - Institute of Plasma Physics Chinese Academy
of Sciences

WEPP22 Versatile High Power Microwave System for Frequency Tuning of the
15:20 CAPRICE ECRIS

Presenting author: Fabio Maimone - GSI Helmholtzzentrum für
Schwerionenforschung GmbH

WEPP23 Improvement of the Microwave Ion Source at KOMAC

15:20

Presenting author: Hyeok-Jung Kwon - Korea Atomic Energy Research Institute
(KAERI) Korea Multi-purpose Accelerator Complex (KOMAC)

WEPP24 Precision Measurement of Lifetime of $J + = 5/2 +$ Excited State of ^{133}Cs via
15:20 $\gamma - \gamma$ Coincidences using NaI(Tl) Scintillators

Presenting author: Innocent Jimmy Lugendo - Korea University

WEPP25 Development Progress of Large-Area High-Power Rf Ion Source for
15:20 High-Energy Beam Applications

Presenting author: Doo-Hee Chang - Korea Atomic Energy Research Institute

- WEPP26** Current Status of the Control System Development for KBSI 28 GHz ECR Ion Source
15:20
Presenting author: Seongjun Kim - Korea Basic Science Institute Busan Center
- WEPP27** Fabrication Status of the Radio Frequency Quadrupole for the RISP
15:20
Presenting author: Bum-Sik Park - Institute for Basic Science
- WEPP28** The Continuous Wave RF Test of an 81.25 MHz Normal Conducting Re-Buncher for MEBT in RISP
15:20
Presenting author: Hye-Jin Kim - Institute for Basic Science
- WEPP29** Recently Test Results for RISP Prototype RFQ
15:20
Presenting author: Bong Hyuk Choi - Institute for Basic Science
- WEPP30** Magnet Power Supply at PAL-XFEL
15:20
Presenting author: Ki-Hyeon Park - Pohang Accelerator Laboratory
- WEPP31** Development of S-band Accelerating Components for PAL-XFEL
15:20
Presenting author: Do Yoon Kim - Vitzrotech Co., Ltd.
- WEPP32** Magnetic Field Design for 2.45 GHz Negative Hydrogen PMECRIS Chamber using FEM Simulation
15:20
Presenting author: Rajesh Kumar - Institute for Plasma Research
- WEPP33** Investigation of Electron Trajectories in an Ion Channel Magnetized Free Electron Laser With a Rectangular Hybrid Wiggler
15:20
Presenting author: Masoud Alimohamadi - Farhangian University
- WEPP34** Recent Beam Dynamics Studies for the SCL Demo of RISP
15:20
Presenting author: Hyunchang Jin - Institute for Basic Science
- WEPP35** Transverse Four-Dimension Phase-Space Distribution Measured by the Pepper-Pot Type Emittance Meter
15:20
Presenting author: Takashi Nagatomo - RIKEN Nishina Center
- WEPP36** Effect of Repair for Plasma Chamber System in KBSI ECR Ion Source
15:20
Presenting author: Jin Yong Park - Korea Basic Science Institute Busan Center
- WEPP37** LEBT System for RISP
15:20
Presenting author: In-Seok Hong - Institute for Basic Science
- WEPP38** Emittance Measurement for a Low Energy Heavy Ion Beam
15:20
Presenting author: Deok-Min Kim - Korea University
- WEPP39** The Design of Computer Data Processing System for RF Ion Source on NBI
15:20
Presenting author: Xiaodan Zhang - Qinghai University

WEPP40 Fast Sputtering Measurements of Uranium with an 18 GHz ECRIS and Ion
15:20 Density Simulations with a Kinetic Global Model (KGM)

Presenting author: Derek Elwin Neben - Michigan State University National Superconducting Cyclotron Laboratory

WEPP41 Measurement of Microwave Frequencies Emitted by Instabilities of ECRIS
15:20 Plasma with Waveguide Filters and Microwave Sensitive Diodes

Presenting author: Olli Tarvainen - University of Jyväskylä Department of Physics

WEPP42 Investigation of 2.45 GHz Microwave Radiated Argon Plasma under
15:20 Magnetized Condition

Presenting author: Rajesh Kumar - Institute for Plasma Research

WEPP43 Kinetic Instabilities in ECR Plasmas Under Conditions of Two-Frequency
15:20 Heating

Presenting author: Ivan Izotov - Institute of Applied Physics Russian Academy of Sciences

WEPP44 Design of a Langmuir Probe for Low-Pressure High-Density Plasma
15:20 Diagnostics

Presenting author: Sung-Ryul Huh - Korea Atomic Energy Research Institute

WEPP45 Heating of Microwave Plasmas to Further Increase Their Densities
15:20

Presenting author: Dr. Gerard Oscar Rodrigues - Inter University Accelerator Centre

Thursday, 01-SEP, 2016

Status reports and new development IV

THAO01 Recent production of intense high charge ion beams with VENUS
09:00

Presenting author: Daniel Xie - Lawrence Berkeley National Laboratory

THAO02 Development Status of 28 GHz Superconducting ECR Ion Source for the KBSI
09:20 Accelerator

Presenting author: Seyong Choi - Korea Basic Science Institute Busan Center

Geller Prize