
MONDAY, AUGUST 25

8:00 Check-in, payment

9:00 – 09:30

WORKSHOP OPENING

9:00 Welcome
Vadim Skalyga, chair

9:30 – 11:00 MOOMMH

STATUS REPORTS AND NEW DEVELOPMENTS

9:30 **MOOMMH01**
How can an ECRIS meet requirement of the next generation heavy ion accelerator facility
Hongwei Zhao

9:52 **MOOMMH02**
First ion beams extracted from a 60 GHz ECR ion source using polyhelices technique
Thierry Lamy

10:14 **MOOMMH03**
First results with the Superconducting Source for ions (SuSI) at 24 GHz
Guillaume Machicoane

10:36 **MOOMMH04**
Recent developments of RIKEN 28GHz SC-ECRIS
Takahide Nakagawa

11:00 – 11:30

COFFEE BREAK

11:30 – 13:00 MOOBMH

PLASMAS AND BEAM DIAGNOSTIC

Oral Session

Monday, August 25, 2014

11:30 **MOOBMH01**

Periodic beam current oscillations driven by electron cyclotron instabilities in ECRIS plasmas

Olli Tarvainen

11:52 **MOOBMH02**

Emission measurement for RIKEN 28 GHz SC-ECRIS

Yoshihide Higurashi

12:14 **MOOBMH03**

Frequency tuning effect on the bremsstrahlung spectra, beam intensity and shape in a 10 GHz, permanent magnet ECR ion source

Gerard Oscar Rodrigues

12:36 **MOOBMH04**

Emission Spectroscopy Diagnostic of Plasma inside 2.45 GHz ECR Ion Source at PKU

Yuan Xu

13:00 – 14:30

LUNCH (PROVIDED)

14:30 – 16:30 MOOAMH

ION BEAM EXTRACTION AND OPTICS, MISCELLANEOUS

14:30 **MOOAMH01**

Simulation of the CERN GTS-LHC ECR ion source extraction system with Pb and Ar ion beams

Ville Toivanen

14:52 **MOOAMH02**

High Current Proton and Deuteron Beams for Accelerators and Neutron Generators

Vadim Skalyga

15:14 **MOOAMH03**

Optimization of Low-Energy Beam Transport

Herman R. Kremers

15:36 **MOOAMH04**

Axial Symmetric Open Magnetic Traps with Depressed Transversal Losses of Plasmas

Alexander Sidorov

Oral Session

Monday, August 25, 2014

15:58

MOOAMH05

Combination of two ECRIS calculations: plasma electrons and
extracted ions

Sandor Biri

16:30 – 18:30

POSTER SESSION

POSTER SESSION

- MOPPH001** Status on Current and Future ECRISs Developments at GANIL
Pascal Jardin
- MOPPH002** Production of metallic stable ion beams for GANIL and SPIRAL2
Frederic Lemagnen
- MOPPH003** Transfer of the IFMIF Injector from CEA/Saclay to Rokkasho site in Japan
Raphael Gobin
- MOPPH004** Status Report at the Heidelberg Ion-Beam Therapy (HIT) Ion Sources and the Testbench
Tim Winkelmann
- MOPPH005** Microwave Power Scaling to optimize Electron density and Temperature in ECR Produced Deuterium Plasma
Sudhirsinh J Vala
- MOPPH006** Direct injection of intense heavy ion beams from a high field ECR ion source into an RFQ
Gerard Oscar Rodrigues
- MOPPH007** Development of an in-situ emittance meter installed in LEBT following 18-GHz Superconducting ECR Ion Source
Takashi Nagatomo
- MOPPH008** Last results of LAPECR3 ion source at IMP
Yun Cao
- MOPPH009** Status of IMP permanent magnet Proton Source for CI-ADS Project
Liangting Sun
- MOPPH010** Development of a 14 GHz high intensity proton source
Liangting Sun
- MOPPH011** Development of Interface and Diagnostic System for ECR ion source At KBSI
Byoung Seob Lee
- MOPPH012** Beam slits and Faraday cup system for the measurement of ion beam profile in the 18 GHz ECRIS SMASHI
Wonil Choo

- MOPPH013** A new metal ion source using a waveguide directly-coupled and permanent magnet-embedded Lisitano antenna
Soouk Jang
- MOPPH014** Initial Performance of a Liquid Helium-free Superconducting ECR Ion Source SMASHI at NFRI
Soouk Jang
- MOPPH015** Production and Acceleration of Titanium-50 Ion Beam at the U-400 Cyclotron
Sergei Bogomolov
- MOPPH016** Modernization of the mVINIS Ion Source
Andrey Efremov
- MOPPH017** LEGIS facility for study of reactor steels radiation resistance
Timur Kulevoy
- MOPPH018** A microwave ion source for pulsed proton beam production at ESS-Bilbao
Rosalba Miracoli
- MOPPH019** Metallic beam Development with an ECR ion source at Michigan State University (MSU)
Derek Elwin Neben

TUESDAY, AUGUST 26

9:00 – 11:00 TUOMMH

STATUS REPORTS AND NEW DEVELOPMENTS

- 9:00 **TUOMMH01**
Improvement of Beam Intensities for ion beams with
Charge-to-Mass Ratio of 1/3 with Two-Frequency Heating Technique
Atsushi Kitagawa
- 9:22 **TUOMMH02**
ECR Ion Sources developments at INFN-LNS
Luigi Celona
- 9:44 **TUOMMH03**
Status Report of SECRA II Ion Source Development
Liangting Sun
- 10:06 **TUOMMH04**
An ECR ion source with integrated sputter magnetron for large area
metal ion beam generation and implantation
Martin Kreller
- 10:28 **TUOMMH05**
HIISI, New 18 GHz ECRIS for the JYFL Accelerator Laboratory
Taneli Kalvas

11:00 – 11:30

COFFEE BREAK

11:30 – 12:30 TUOBMH

PLASMA HEATING AND MW SOURCES

- 11:30 **TUOBMH01**
The 60 GHz 300 kW Gyrotron System for
ECR Ion Source of New Generation
Zakhar Gasajniev
- 11:52 **TUOBMH02**
Millimeter Wave Microwave Sources for Electron Cyclotron
Resonance Ion Sources
Gregory Denisov

12:30 – 13:00

INTERNATIONAL ADVISORY COMMITTEE MEETING

13:00 – 14:30

LUNCH (PROVIDED)

16:30 – 22:00

CONFERENCE RECEPTION: BOAT CRUISE

WEDNESDAY, AUGUST 27

9:00 – 10:30 WEOMMH

STATUS REPORTS AND NEW DEVELOPMENTS

- 09:00 **WEOMMH01**
The Installation of the 28GHz Superconducting
ECR Ion Source At KBSI
Mi-Sook Won
- 09:22 **WEOMMH02**
First Commissioning Results of An Evaporative Cooling Magnet
ECRIS-LECR4
Wang Lu
- 09:44 **WEOMMH03**
Development of the magnetic system for new DECRIS-PM
ion source.
Andrey Efremov
- 10:06 **WEOMMH04**
Thermal Design of Refrigerated Hexapole 18 GHz ECRIS HIISI
Taneli Kalvas

10:30 – 11:00

COFFEE BREAK

11:00 – 12:30 WEOBMH

CHARGE BREEDING, THEORY AND SIMULATIONS

- 11:00 **WEOBMH01**
Experimental activities with the LPSC charge breeder in the
European context
Thierry Lamy
- 11:22 **WEOBMH02**
Study of ECRIS scaling laws with the Particle-in-Cell code
Vladimir Mironov
- 11:44 **WEOBMH03**
Investigation on the origin of high energy x-rays observed

Oral Session

Wednesday, August 27, 2014

in 3rd generation ECRIS

Thomas Thuillier

12:06

WEOBMH04

Theory of cyclotron instability of hot electrons in ECRIS: origin, manifestation, and influence on plasma confinement

Dmitriy Mansfeld

12:30 – 14:00

LUNCH (PROVIDED)

14:00 – 17:00

EXCURSION: CITY TOUR

19:00 – 23:00

BANQUET

THURSDAY, AUGUST 28

**9:00 – 10:30 THOMMH
APPLICATIONS**

- 09:00 **THOMMH01**
Boron Ion Beam Production with the Supernanogan ECR Ion
Source for the CERN BIO-LEIR Facility
Joshua Tobias Stafford-Haworth
- 09:22 **THOMMH02**
Application of an ECR Ion Source for Ionic Functionalization of
Implant Materials on the Nanoscale
Richard Racz
- 09:44 **THOMMH03**
A Point-like Source of Extreme Ultraviolet Radiation Based on
Non-equilibrium Discharge, Sustained by Powerful Radiation of
Terahertz Gyrotron
Alexander Sidorov

**10:30 – 11:00
COFFEE BREAK**

**11:00 – 12:00
GELLER PRIZE**

**12:00 – 12:30
CLOSING REMARKS**

**14:00 – 16:30
IAP RAS TOUR**