ECRIS10
Scientific Program

Monday, August 23, 2010

08 :00-08 :40 Registration
08 :40-09:00 Welcome

09 :00-10:30 MOCOAK Makalu Room
Status of ECRIS Operation Chair: S. Gammino

09:00 **MOCOAK01** SECRAL Status and Test Operation at 24GHz
Hongwei Zhao
09:22 **MOCOAK02** Intense Ion Beam Production with SuSI
Liangting Sun
09:44 **MOCOAK03** Status of new RIKEN SC-ECRIS
Takahide Nakagawa
10:06 **MOCOAK04** Status of the VENUS ECR Ion Source
Daniela Leitner

10 :30-11 :00 Coffee Break Atrium

11 :00-12 :30 MOCOBK Makalu Room
Status & New Developments Chair: C. Lyneis

11:00 **MOCOBK01** ECR ion sources for the Facility for Rare Isotope Beams (FRIB) project at Michigan State University
Guillaume Machicoane
11:22 **MOCOBK02** Present status of FLNR (JINR) ECR ion sources
Sergei Bogomolov
11:44 **MOCOBK03** Status of ion sources at HIMAC
Atsushi Kitagawa
12:06 **MOCOBK04** The ORNL MIRF HV Platform and Floating Beamline Upgrade Project
Fred Meyer

12 :30-14 :00 Lunch break

14 :00-15 :50 MOCOCK Makalu Room
Status & New Developments Chair: T.Nakagawa

14:00 **MOCOCK01** PK-ISIS: a new superconducting ECR ion source at Pantechnik
Antonio C. Villari
14:22 **MOCOCK02** 3D simulation studies and optimization of magnetic holes of HTS-ECRIS for improving the extraction efficiency and intensities of highly charged ions
Gerard O. Rodrigues
14:44 **MOCOCK03** Design study of a higher magnetic field SC ECRIS at IMP
Daniel Xie
15:06 **MOCOCK04** Measurement of the Sixty GHz ECR Ion Source using Megawatt Magnets - SEISM magnetic field map
Mélanie Marie-Jeanne
15:28 **MOCOCK05** Multigan®: a new multicharged ions source based on axisymetric magnetic structure
Laurent Maunoury

15 :50-16 :10 Coffee Break Atrium

16 :10-17 :30 MOPOT Atrium
Poster Session 1 (see p.6)

17 :30-18 :30 Wine & Cheese Tasting Atrium

Tuesday, August 24, 2010

08 :40-10:30 TUCOAK Makalu Room
Ions Beam & LEBTs Chair: R. Vondrasek

08:40 **TUCOAK01** First A/Q=3 beams of Phoenix V2 on the heavy ions low energy beam transport line of Spiral2
Christophe Peaucelle
09:02 **TUCOAK02** Ion Beam Brightness Study on SECRAL
Yun Cao
09:24 **TUCOAK03** Plasma-to-Target WARP simulations of Uranium beams extracted from VENUS compared to emittance measurements and beam images.
Daniel Winklehner
09:46 **TUCOAK04** Production of U ion beam from RIKEN SC-ECRIS with sputtering method
Yoshihide Higurashi
10:08 **TUCOAK05** An interpretation of the data measured with the KVI4D emittance meter
Herman R. Kremers

10 :30-11 :00 Coffee Break Atrium

11 :00-12 :30 TUCOBK Makalu Room
Pulsed Operation Chair: P. Spaëdke

11:00 **TUCOBK01** Preglow phenomenon origins and its scaling for ECRIS
Ivan Izotov
11:22 **TUCOBK02** "Preglow" investigation in ECR discharge @ 37 GHz, 100 kW
Vadim Skalyga
11:44 **TUCOBK03** Time Evolution of Plasma Potential in Pulsed Operation of ECRIS
Olli Tarvainen
12:06 **TUCOBK04** Micropulses generation in ECR breakdown stimulated by gyrotron radiation @ 37,5 GHz.
Vladimir Zorin

12 :30-14 :00 Lunch break

14 :00-15 :50 TUCOCK Makalu Room
Applications Chair: L.Maunoury

14:00 **TUCOCK01** Beam, Multi-Beam and Broad Beam production with COMIC devices
Pascal Sortais
14:22 **TUCOCK02** Status of the Electron Cyclotron Resonance Ion Source Development at Peking University
Shi Xiang Peng

14:44 **TUCOCK03** Development of 14 GHz electron cyclotron resonance ion source at KAERI
Byung-Hoon Oh
15:06 **TUCOCK04** Mass Spectrometry with an ECR Ion Source
Michael Hotchkis
15:28 **TUCOCK05** Working of the 10 GHz CAPRICE Ion Source
B. Jacquot

15 :50-16 :10 Coffee Break Atrium

16 :10-18 :00 TUPOT Atrium
Poster Session 2 **(see p.7)**

18:00-19 :00 *Grenoble Mayor Cocktail* Atrium

Wednesday, August 25, 2010

08 :40-10:30 WECOAK Makalu Room
Plasma & Beam Investigations Chair: H.W. Zhao

08:40 **WECOAK01** Characterization of the microwave coupling to the plasma chamber of the LBL ECR ion source.
Claude M Lyneis
09:02 **WECOAK02** Some considerations about frequency tuning effect in ECRIS plasmas
David Mascali
09:24 **WECOAK03** Studies of the ECR plasma in the visible light range
Sandor Biri
09:46 **WECOAK04** Bremsstrahlung and ion beam current measurements with SuSI ECR ion source
Tommi Ropponen
10:08 **WECOAK05** Maximum bremsstrahlung energy versus different heating limits
Hannu Koivisto

10 :30-11 :00 Coffee Break Atrium

11 :00-12 :30 WECOBK Makalu Room
Charge Breeding, Optics Chair: O. Kester

11:00 **WECOBK01** Commissioning of the ECRIS Charge State Breeder at TRIUMF
Friedhelm Ames
11:22 **WECOBK02** Recent Performance of the ANL ECR Charge Breeder
Richard Vondrasek
11:44 **WECOBK03** Fine frequency tuning of the PHOENIX charge breeder used as a probe for ECRIS plasmas
Thierry Lamy
12:06 **WECOBK04** Ion beam focussing and steering using a 3D-movable extraction
Lauri Panitzsch

12 :30-18 :00 Lunch (provided) & Excursion

19 :15-23 :15 Banquet

Thursday, August 25, 2010

09 :00-10:30 THCOAK Makalu Room
Plasma & Beam Investigations Chair: R. Leroy

09:00 **THCOAK01** A correction scheme for the hexapolar error of an ion beam extracted from an ECRIS
Peter Spaedtke
09:22 **THCOAK02** Kinetic Plasma Simulation of Ion Beam Extraction from a Hexapole ECR Ion Source
Stephen M. Elliott
09:44 **THCOAK03** Dipole magnet optimization for high efficiency low energy beam transport
Suresh Saminathan
10:06 **THCOAK04** Modeling ECRIS using a 1D multifluid code
Michael Stalder

10 :30-11 :00 Coffee Break Atrium

11 :00-11 :15 Bus transfer from WTC to LPSC

11 :30-12 :15 Geller Prize LPSC Amphitheater

12 :15-12 :45 Closing Remarks LPSC Amphitheater

12 :45-14 :15 Barbecue at LPSC

14 :15-17 :15 Scientific Polygon Visit

17:15 Bus back from LPSC to WTC

Poster Sessions

Monday, August 23, 2010

16 :10-18 :00 MOPOT Atrium
Poster Session 1

MOPOT01 Operation of KeiGM for the carbon ion therapy facility at Gunma University
Masayuki Muramatsu
MOPOT02 Two-chamber configuration of the Bio-Nano ECRIS
Takashi Uchida
MOPOT03 Prospect for compact size ECRIS in application to analytical system
Masanori Kidera
MOPOT04 Neutralisation of accelerated ions and detection of resulting neutrals.
Thies Peleikis
MOPOT05 High current production with 2.45 GHz ECR Ion source
Arona Coly
MOPOT06 Ionization efficiency of a COMIC ion source equipped with a quartz plasma chamber
Pekka Suominen
MOPOT07 Preliminary steps for high intensity beam tomography reconstruction
Cherry May Mateo
MOPOT08 He2+ source based on penning discharge with additional 75 GHz ECR heating.
Alexander Vodopyanov
MOPOT09 Beam Simulations in the Extraction Line of the RIKEN 28 GHz ECR Ion Source
Jun-Ichi Ohnishi
MOPOT10 The Light Ion Guide CB-ECRIS project at the Texas A&M University Cyclotron Institute
Gabriel Tabacaru
MOPOT11 DRAGON a new 18 GHz RT ECR ion source with a large plasma chamber
Wang Lu
MOPOT12 Tests of the Versatile Ion Source (VIS) for high power proton beam production
Santo Gammino
MOPOT13 MONOBOB II : Lastest results of monocharged ion source for SPIRAL2 RIB
Mickael Dubois
MOPOT14 The design of 28 GHz ECR Ion Source for the Compact Linear Accelerator in Korea
Misook Won
MOPOT15 The Design Study of Superconducting Magnet System for a Advanced ECR Ion Source
Byoung Seob Lee
MOPOT16 Early uranium ion production in SUSI and a low power survey of offset axial sputtering
Dallas Cole
MOPOT17 Tests of a New Axial Sputtering Technique in an ECRIS
Robert Scott
MOPOT18 Atmospheric pressure deposition of ZnO films by an DC Arc Plasmatron
Oleksiy Penkov

Tuesday, August 24, 2010

16 :10-18 :00 TUPOT Atrium
Poster Session 2

TUPOT01 Plans for Laser Ablation of Actinides into an ECRIS for Accelerator Mass Spectroscopy
Richard Pardo
TUPOT02 Enhancement of ECR performances by means of carbon nanotubes based electron guns
Fabrizio Odorici
TUPOT03 A new BETSI test bench at CEA/Saclay
Sébastien Nyckees
TUPOT04 MICROGAN ECR ion source in a Van de Graaff accelerator terminal
Gabriel Gaubert
TUPOT05 An ECR table plasma generator
Richard Rácz
TUPOT06 Using Mass-flow controllers for obtaining extremely stable ECR ion source beams
Xavier Donzel
TUPOT07 Preliminary design of BLISI, an off resonance microwave proton source
Slobodan Djekic
TUPOT08 Performance of the LBNL AECR-U with a TWTA
Janilee Benitez
TUPOT09 New Measurements Of Bremsstrahlung Radiation From SECRAL
Huanyu Zhang
TUPOT10 Effects of microwave frequency fine tuning on the performance of JYFL 14 GHz ECRIS
Ville Toivanen
TUPOT11 Measurements of low energy x-ray spectrum, plasma formation and decay at the 6.4 GHz LBNL ECR
Jonathan Noland
TUPOT12 Microwave frequency dependence of the properties of the ion beam extracted from a CAPRICE type ECRIS
Fabio Maimone
TUPOT13 Influence of initial plasma density and mean electron energy on the Preglow effect
Ivan Izotov
TUPOT14 Optimized extraction conditions from high power-ECRIS by dedicated dielectric structures.
Leon Schachter
TUPOT15 Permanent Magnet ECRIS for the KEK Digital Accelerator
Kwee Wah Leo
TUPOT16 Long-term operation experience with two ECR ion sources and planned extensions at HIT
Tim Winkelmann
TUPOT17 CEA/Saclay light ion sources status and developments
Raphael Gobin
TUPOT18 Sheath Formation of a Plasma Containing Multiply Charged Ions, Cold and Hot Electrons, and Emitted Electrons
Hyun Jong You
TUPOT19 Stimulated Nonlinear RFS in Magnetized Plasma
Alireza Paknezhad