

ECRIS10 – Scientific Program

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Monday, August 23rd, 2010 Oral Presentation

MOCOAK
Status of ECRIS Operation

Chair: S. Gammino

[MOCOAK01](#) SECRAL Status and Test Operation at 24GHz

Hongwei Zhao

[MOCOAK02](#) Intense Ion Beam Production with SuSI

Liangting Sun

MOCOAK03 Status of new RIKEN SC-ECRIS

Takahide Nakagawa

[MOCOAK04](#) Status of the VENUS ECR Ion Source

Daniela Leitner

MOCOBK
Status & New Developments

Chair: C. Lyneis

[MOCOBK01](#) ECR ion sources for the Facility for Rare Isotope Beams (FRIB) project at Michigan State University

Guillaume Machicoane

[MOCOBK02](#) Present status of FLNR (JINR) ECR ion sources

Sergei Bogomolov

[MOCOBK03](#) Status of ion sources at HIMAC

Atsushi Kitagawa

[MOCOBK04](#) The ORNL MIRF HV Platform and Floating Beamline Upgrade Project

Fred Meyer

MOCOCK
Status & New Developments

Chair: T. Nakagawa

MOCOCK01 PK-ISIS: a new superconducting ECR ion source at Pantechnik

Antonio C. Villari

[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

MOCOCK03 Design study of a higher magnetic field SC ECRIS at IMP

Daniel Xie

MOCOCK04 Measurement of the Sixty GHz ECR Ion Source using Megawatt Magnets - SEISM magnetic field map

Mélanie Marie-Jeanne

MOCOCK05 Multigan®: a new multicharged ions source based on axisymmetric magnetic structure

Laurent Maunoury

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Masanori Kidera
- MOPOT04** Neutralisation of accelerated ions and detection of resulting neutrals.
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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
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- MOPOT08** He²⁺ source based on penning discharge with additional 75 GHz ECR heating.
Alexander Vodopyanov
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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
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- MOPOT13** MONOBOB II : Latest results of monocharged ion source for SPIRAL2 RIB
Mickael Dubois
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Misook Won
- MOPOT15** The Design Study of Superconducting Magnet System for a Advanced ECR Ion Source
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- MOPOT16** Early uranium ion production in SUSI and a low power survey of offset axial sputtering
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- MOPOT17** Tests of a New Axial Sputtering Technique in an ECRIS
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Ions Beam & LEBTs

Chair: R. Vondrasek

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Christophe Peaucele

TUCOAK02 Cancelled

TUCOAK03 Plasma-to-Target WARP simulations of Uranium beams extracted from VENUS compared to emittance measurements and beam images.

Daniel Winklehner

TUCOAK04 Production of U ion beam from RIKEN SC-ECRIS with sputtering method

Yoshihide Higurashi

TUCOAK05 An interpretation of the data measured with the KVI4D emittance meter

Herman R. Kremers

TUCOBK
Pulsed Operation

Chair: P. Spaedke

TUCOBK01 Preglow phenomenon origins and its scaling for ECRIS

Ivan Izotov

TUCOBK02 "Preglow" investigation in ECR discharge @ 37 GHz, 100 kW

Vadim Skalyga

TUCOBK03 Time Evolution of Plasma Potential in Pulsed Operation of ECRIS

Olli Tarvainen

TUCOBK04 Micropulses generation in ECR breakdown stimulated by gyrotron radiation @ 37,5 GHz.

Vladimir Zorin

TUCOCK
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Chair: L.Maunoury

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Pascal Sortais

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Shixiang Peng

TUCOCK03 Development of 14 GHz electron cyclotron resonance ion source at KAERI

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TUCOCK04 Mass Spectrometry with an ECR Ion Source

Michael Hotchkis

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Huanyu Zhang
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WECOAK

Plasma & Beam Investigations

Chair: H.W. Zhao

[WECOAK01](#) Characterization of the microwave coupling to the plasma chamber of the LBL ECR ion source.

Claude M Lyneis

WECOAK02 Some considerations about frequency tuning effect in ECRIS plasmas

David Mascali

WECOAK03 Studies of the ECR plasma in the visible light range

Sandor Biri

[WECOAK04](#) Bremsstrahlung and ion beam current measurements with SuSI ECR ion source

Tommi Ropponen

WECOAK05 Maximum bremsstrahlung energy versus different heating limits

Hannu Koivisto

WECOBK

Charge Breeding, Optics

Chair: O. Kester

[WECOBK01](#) Commissioning of the ECRIS Charge State Breeder at TRIUMF

Friedhelm Ames

[WECOBK02](#) Recent Performance of the ANL ECR Charge Breeder

Richard Vondrasek

WECOBK03 Fine frequency tuning of the PHOENIX charge breeder used as a probe for ECRIS plasmas

Thierry Lamy

[WECOBK04](#) Ion beam focussing and steering using a 3D-movable extraction

Lauri Panitzsch

Thursday, August 25, 2010
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THCOAK

Plasma & Beam Investigations

Chair: R. Leroy

THCOAK01 A correction scheme for the hexapolar error of an ion beam extracted from an ECRIS

Peter Spaedtke

THCOAK02 Kinetic Plasma Simulation of Ion Beam Extraction from a Hexapole ECR Ion Source

Stephen M. Elliott

[THCOAK03](#) Dipole magnet optimization for high efficiency low energy beam transport

Suresh Saminathan

[THCOAK04](#) Modeling ECRIS using a 1D multifluid code

Michael Stalder

THCOBK01 Closing Remarks

Takahide Nakagawa