XXIII



Monday, 10th September 2018 (Diocesan Museum)

OPENING SESSION: 9:00 - 9:30

Welcome of INFN-LNS Director: Giacomo Cuttone

MORNING ORAL SESSION: 9:30 - 10:50

Chair: S. Gammino

Status reports and new developments

H. Zhao (23'+7') - Development and status of 45 GHz

FECR D. Xie (23'+7') - Exploring the potential of VENUS ion source

H. Koivisto (15'+5') - First Ion Beams Extracted from a New JYFL 18GHz Ecris: HIISI

MORNING ORAL SESSION: 11:10 - 12:30

Chair: H. Zhao

Status reports and new developments, Applications

- V. Skalyga (15'+5') Status of a New 28 GHz Gasdynamic Ion Source for Multipurpose Operation (GISMO) Development at the IAP RAS
- N. Gambino (15'+5') Status of the carbon ion source commissioning at MedAustron
- D. Mascali (15'+5') Characterization of the AISHA Ion Source
- P. Salou (15'+5') Positive Ion Mass Spectrometry: A Novel Technique of Accelerator Mass Spectrometry Using Ecris

AFTERNOON ORAL SESSION: 14:30 - 16:

Chair: R. Vondrasek Charge Breeding

- T. Thuiller (15'+5') Challenges and Prospects of ECR Charge Breeding
- D. May (15'+5') Charge-Breeding of Radioactive Ions at the Texas A&M Cyclotron Institute
- J. Angot (15'+5') Charge breeding time studies with short pulse beam injection
- L. Manoury (15'+5') SPIRAL1 charge breeder: performances and status
- A. Annaluru (15'+5') 1+/n+ method: numerical simulation studies and experimental measurements on the SPIRAL1 charge breeder
- V. Toivanen (15'+5') Redesign of the GANIL GTS ECRIS for 1+/n+ Studies

ROUND TABLE: 16:50 - 18:15

Chair: D. Leitner

Future Magnetic systems for ECRIS

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Tuesday, 11th September 2018 (Diocesan Museum)

MORNING ORAL SESSION: 9:00 - 10:50

Chair: D. Xie

Status reports and new developments

- T. Nakagawa (23'+7') Optimization of RIKEN SC-ECRIS performance for production of intense metal ion beam
- A. Kitagawa (15'+5') Present Status and Future Prospect of Heavy Ion Radiotherapy
- T. Nagatomo (15'+5') New 28-Ghz Superconducting Ecr Ion Source for Synthesizing New Super Heavy Elements of Z > 118
- G. Machicoane (15'+5') FRIB 28 GHz ECR ion source construction progress and commissioning status
- L. Sun (15'+5') High Power Operation with SECRAL-II Ion Source

MORNING ORAL SESSION: 11:10 - 12:30

Chair: T. Nakagawa

Plasma physics and techniques

- J. Guo (15'+5') Perspective on High-Power Microwave Coupling in Gyrotron Frequency ECR Ion Sources
- G. Torrisi (15'+5') Plasma Heating and Innovative Microwave Launching in ECRIS: Models and Experiments
- C. Gallo (15'+5') A Possible Optimization of Electron Cyclotron Resonance Ion Sources Plasma Chambers
- R. Mitchel (15'+5') l Manufacture of a 7.5 M Long Cryogen-Free Magnet System for Neutron Decay Studies

GELLER PRIZE SESSION: 14:30 - 15:20

Chair: Mi-Sook Won Co-Chair: G. Gaubert

POSTER SESSION: 15:20 - 16:50

ROUND TABLE: 16:50 - 18:15

Chair: H. Koivisto

Future of ECRIS, beyond the scaling laws?



Wednesday, 12th September 2018 (Diocesan Museum)

MORNING ORAL SESSION: 9:00 - 10:50

Chair: D. Mascali Plasma Investigations

- I. Izotov (23'+7') The Energy Distribution of Electrons Escaping Minimum-B ECR Plasma in Unstable Mode
- J. Li (15'+5') Bremsstrahlung Measurements with SECRAL II Ion Source
- B Isherwood (15'+5') Plasma Instability Studies of the SuSI 18 Ghz Source
- G. Castro (15'+5') OES and other diagnostics for the ESS Proton Source
- R. Rácz (15'+5') Effect of the two-close-frequency heating to the extracted ion beam and to the X-ray flux emitted by the ECR plasma

MORNING ORAL SESSION: 11:10 - 12:30

Chair: T. Thuiller

Plasma physics and Techniques

- V. Mironov (15'+5') Simulations of ECRIS Performance for Different Working Materials
- A. Leduc (15'+5') Ca production and strategy with the Phoenix V3 ECR ion source
- W. Lu (15'+5') High temperature oven development for intense metal beam production at IMP
- J. Ohnishi (15'+5') Practical Use of High-Temperature Oven for 28 GHz Superconducting ECR Ion Source at RIKEN

LIGHT LUNCH: 12:30 - 14:30

CONFERENCE OUTING: 14:30 - 16:30



Thursday, 13th September 2018 (Diocesan Museum)

MORNING ORAL SESSION: 9:00 - 10:50

Chair: G. Machicoane High current ion sources

L. Neri (23'+7') - High intensity proton source and LEBT for the European Spallation Source

S.V. Golubev (15'+5')- Point-like Neutron Emission Observation Using a Neutron Generator Based on a Gasdynamic ECR Ion Source

A. Miraglia (15'+5')- Strategic Management for Delivery and Installation of Ion Source and Low Energy Beam Transport for ESS Project

C. Qian (15'+5')- Development of LECR4 ion source for intense beam production and LECR5 for SESRI Project

R. Lapin (15'+5') - Gasdynamic ECR Tandem Ion Source for Negative Hydrogen Ion Production

ROUND TABLE: 11:10 - 12:30

Chair: P. Spaedtke

Extraction and transport of intense ion beams

AFTERNOON ORAL SESSION: 14:30 - 16:30

Chair: V. Skalyga

High current ion sources

- Q. Wu (15'+5')- Development of 2.45 GHz ECR ion source at IMP
- S. Vala (15'+5')- Development of test bench of 2.45 GHz ECR ion source for RFQ accelerator
- Y. Iwashita (15'+5')- Compact High current H+ ECR Ion Source with Fast Pulse Gas Valve
- S.. Bogomolov (15'+5') Development of Compact 2.45 GHz ECR Ion Source for Generation of Singly-Charged Ions

POSTER SESSION: 15:50 - 17:30

CONFERENCE BANQUET: 20:00 - 22:30



Friday, 14th September 2018 (INFN-LNS)

TRANSFER TO INFN-LNS: 9:00 - 9:30

MORNING ORAL SESSION: 9:30 - 10:50

Plasma Investigations Chair: K. Tinschert

- R. Kronholm (23'+7')- High Resolution Spectrometer Development for Ecris Plasma Spectroscopy
- D. Todd (15'+5')- Simulation and experimental studies of biased disc behavior in the superconducting ECR ion source VENUS
- M. Giarrusso (15'+5') High Resolution Spectropolarimetry: from Astrophysics to ECR plasmas

MORNING ORAL SESSION: 11:10 - 12:00

Plasma Investigations

Chair: S. Biri

J. Benitez (15'+5') - Axial X-Ray Cutoff in Small, Dense Plasma in the VENUS ECR E. Naselli (15'+5') - Impact of the two close frequency heating on ECRIS plasmas stability

CLOSING REMARKS: 12:00 - 12:30

A. Kitagawa

LIGHT LUNCH: 12:30 - 14:30

TOUR OF INFN-LNS: 14:30 - 16:30

TRANSFER TO HOTEL: 16:30 16:50