

Session Program

15-20 Oct 2017



17th International Conference on Ion Sources

Poster Session 3

CERN

Centre international de Conférence Genève (CICG). <http://www.cicg.ch/>

Wednesday 18 October

16:30

Poster Session 3: Wednesday

Poster Session | **Location:** CERN, Centre international de Conférence Genève (CICG). <http://www.cicg.ch/>

IAC Dinner

A Photoconductive Semiconductor Switch Driven Ion Beam Injector for Radiobiological Experiments

Speaker

Dr Daisuke Satoh

A Pulsed Vacuum Arc Ion Source with a Pure Boron Cathode

Speaker

Efim Oks

Observation of Beam Current Fluctuation Extracted from an Rf-Driven H⁻ Ion Source

Speaker

Katsuhiro Shinto

Development of a Prototype of PIG Ion Source with Electric Magnets for a Compact Ion Microbeam System

Speaker

Hirotsugu Kashiwagi

Fabrication of Swelling Structure on SiC Surface by Using Multi-Charged Ar Beam

Speaker

Dr Sadao Momota

A Test Stand for the Development of Ion Sources at CERN-ISOLDE

Speaker

Sebastian Rothe

Development of a Large RF Bucket Ion Source for Large Area Ion Beam Milling Processes to Fabricate Micro-structures

Speaker

Dr Masanobu Tanaka

MELISSA: the MEDICIS Laser Ion Source Setup At CERN

Speaker

Vadim Gadelshin

Source Commissioning for Carbon Ion Treatment Beams at MedAustron

Speaker

Johanna Pitters

Metal Ion Filtering of Vacuum Arc Ion Source Through an Inclined-Aperture Extraction Grid

Speaker

Dr Chaohui Lan

Linac4 Source Extraction and Low Energy Beam Transport Study

Speakers

Daniel Noll, Richard Scrivens

Ion Source and Front End Commissioning at the Facility for Rare Isotope Beams

Speaker

Dr Guillaume Machicoane

Effect of Grid's Geometry on the Space Charge Induced Divergence of a Multi-Beamlet Ion Beam

Speaker

Dr Mostafa Salahshoor

Preliminary Oxygen Ion Beam Acceleration Test for the RISP Injector

Speaker

Hong In-Seok

EBIS-Based HCI Micro-Beams

Speaker

Mr Paul-Friedmar Laux

Generation of Pure Boron Plasma for Ion Beam Formation and Surface Modification

Speaker

Efim Oks

Study of Energy and Mass-Charge Spectra of Ions Emitted by a Hydrogen Penning Plasma Source.

Speaker

Dr Nikita Mamedov

Generation of Boron Ion by Vacuum Arc Ion Source with Lanthanum Hexaboride and Boron Carbide Cathodes

Speaker

Efim Oks

Magnetron Discharge-Based Boron Ion Source

Speaker

Prof. Efim Oks

Ion Beam Lithography, a Promising Technique for Patterning of Graphene Oxide Foil

Speaker

Dr Mariapompea Cutroneo

Development of a Compact Internal PIG H^{+} Ion Source for Industrial Use

Speaker

Mr Nagaaki KAMIGUCHI

Development of New Electromagnets for a Microwave Ion Source

Speaker
Dr Nobuaki TAKAHASHI

Acceleration of Ion Beams Using a Scalable Microelectronmechanical-System-Based RF Structures

Speaker
Dr Qing Ji

The Construction of the Inner Ion Source for SC200 Compact Superconducting Cyclotron

Speaker
Gen Chen

The Trajectory Simulation and Optimization of Ion Source Chimney for SC200 Cyclotron

Speaker
Shiwen xu

Improvement of Microwave Injection for Heavy Ion Production at Compact ECR Ion Source

Speaker
Masayuki Muramatsu

ECR-Source of an Intense Beam of Low-Energy Hydrogen Ions

Speaker
Sergey Konstantinov

Interaction of Intense Pulsed Ion Beams with Matter: Fluence and Dose Rate Dependent Energy-Loss

Speaker
Dr Qing Ji

Inverse Heat Flux Evaluation of Diagnostic Calorimeter Data by Neural Networks

Speaker
Dr Rita Sabrina Delogu

Production of Nitrogen-Fullerene Compound Ion Beams on Tandem-Type Electron Cyclotron Resonance Ion Source

Speaker
Dr Yushi Kato

Carbon Pulsed Evaporator for Carbon Plasma Source

Speaker
Dr Haruhisa Koguchi

The Ion Source for the Commissioning of ELENA Ring

Speaker
Ana Megia-Macias

A New Control System for High Resolution In-Gas Laser Ionization and Spectroscopy Studies

Speaker
Mr Kristof Dockx

Production of Proton Beam with ZrH₂ Pellet Target**Speaker**

Yoshito Saito

On the Formation Mechanism of Modified Fullerenes in the Two-Chamber Configuration of the Bio-Nano ECRIS**Speaker**

Takashi Uchida

Characterization of 1 MHz Solid State High Frequency Power Supply with Inductively Coupled Plasma**Speaker**

Mr Sandip A. Gajjar

Performance and First Data Analysis of the ESS Emittance Measurement Unit**Speaker**

Benjamin Cheymol

Development of 1 MV Electrostatic Accelerator with Compact RF Ion Source at KOMAC**Speaker**

Mr Dae-Il Kim

Analysis of the H⁻ Extraction in the Linac4 Negative Ion Source by 2.5D Particle Simulation**Speaker**

Mr Shota Abe

Development of a Carbon Cluster Ion Source with a Hollow Cathode**Speaker**

Yuta Imamura

Extraction of an Aluminum-Nitride Ion Beam from a Planar Magnetron Sputter Type Ion Source**Speaker**

Kentaro Yoshioka

Integrated Modeling of the Beam Formation and Extraction in the Linac4 Hydrogen Negative Ion Source**Speaker**

Mr Shu Nishioka

The First Test of the Ion Implantation Beamline at VIBA**Speaker**

Dr Mi-Sook Won

Analysis of the Superconducting Magnet Performance for RAON 28 GHz ECR Ion Source**Speaker**

Mr Jeongil Heo

Ion Beam and Discharge Characteristics of a Multi-Cusp Ion Source with Various Magnetic Field Configurations

Speaker
Andrea Gracia CUEVAS

Development of 2.45 GHz ECR Proton Source for Compact Accelerator-Driven Neutron Source System

Speaker
Noriyosu Hayashizaki

Particle Dynamic Simulations of the GSI Test Injector Facility HOSTI

Speaker
Fabio Maimone

Electron Beam-Mediated Reduction of Silver Ions Impregnated in a Natural Zeolite Framework

Speaker
Magdaleno Jr Vasquez

Spectral Modelling of Neutral Beam for Doppler Shift Spectroscopy Diagnostics of INTF

Speaker
Mr Arnab Jyoti Deka

Beam Characterization by Means of Emission Spectroscopy in the NIO1 Experiment

Speaker
Marco Barbisan

Self-Consistent Potential in High Intensity Deuteron Beam Simulations and Measurements

Speaker
Mr Luca Bellan

Effective Transportation of Negative Hydrogen Ions in a Synthesized Hydrogen Beam

Speaker
Anton Kolmogorov

Status of High Intensity Low Energy Injector for Jinping Underground Nuclear Astrophysics Experiments

Speaker
Qi WU

CAMFT Code for Ion Bunch Dynamics Simulation in External Fields with Parallel Computing

Speaker
Dr Helen Barminova

Design of a Long Pulse Beam Diagnostic Calorimeter for the Prototype RF-Driven Negative Ion Source for Neutral Beam Injection Application

Speaker
Yongjian Xu

Design of the Beam Extraction and Transport System for FECR

Speaker

Dr Yao Yang

On Optical Properties of Ion Beams Extracted from Electron Cyclotron Resonance Ion Source**Speaker**

Dr Vladimir Mironov

Downsizing Study of SMASHI LEBT for Higher Beam Transmission**Speaker**

Dr Hyun Jong You

Advances in Development of a New Generation of Plasma-Optical Systems**Speaker**

Alexey Goncharov

Ion Velocity Components and Space Potential Measurements on High-Current-Density and Low-Energy Ion Beam Using Double Electrostatic Probes**Speaker**

Haruhisa Koguchi

Beam Optics Effects at the Entrance to the SARAF RFQ**Speaker**

Leo Weissman

Measurements and Simulations of the Beam Extraction from the ESS Proton Source**Speaker**

Øystein Midttun

Modeling of Beam Acceleration for the Negative Ion Source NIO1**Speaker**

Antonio Pimazzoni

Simulation of Low-Energy Ion Beam Trajectories from a Thin Wire Mesh Electrode Configuration**Speaker**

Ms Mc Guillis Kim Ramos

Design and Fabrication of a Beam Dump at KBSI Heavy Ion Facility**Speaker**

Dr Mi-Sook Won

Wireless Telegram Microwave ECRIS**Speaker**

Mr Takuto Watanabe

Producing and Identifying of Multiply Charged Fullerene Ion Beams and Their Compounds.**Speaker**

Mr Yuto Tsuda

 ${}^3\text{He}$ Beam Development of 18 GHz SCECR-IS for Proton Generator at RCNP

Speaker

Tetsuhiko Yorita

Al and W Ion Beams from MEVVA Ion Source Material Radiation Resistance

Speaker

Petr Fedin

Child-Langmuir-limited Current in the Negative Ion Source NIO1

Speaker

Gianluigi Serianni

The Development of Proton ECRIS for Boron Neutron Capture Therapy

Speaker

Dr Byoung Seob Lee

The Study of Wien Filter for Gas Cluster Ion Source

Speaker

Dr Byoung Seob Lee

MEVVA Single Aperture Extraction System

Speaker

Mr Stanislav Andrianov

Ferromagnetic Enhanced Inductively Coupled Plasma Cathode for Thruster Ion Neutralization

Speaker

Murat Celik

Longitudinal Emittance and In-Situ Plasma Potential Measurements of Ion Beams from the High Temperature Superconducting ECR Ion Source, PKDELIS

Speaker

Dr Gerard Rodrigues

Electron Cyclotron Resonance Ion Sources for Solar and Semiconductor Applications

Speaker

Dr Karuppanan Sekar

The Optimization of Evaporative Cooling Magnet for LECR4 Ion Source

Speaker

Dr Xiong Bin

Design of a 400kV High Intensity Accelerator Facility for Jinping Underground Laboratory for Nuclear Astrophysics

Speaker

Baoqun Cui

Spatial Distributions and Characterizations of Ion Flow Produced from Laser-Induced Plasmas in Capillary Targets

Speaker

Anton Philippe Tanquintic

Low Energy Ion Beam Line for Twin EBIS

Speaker

Dr Alexander Pikin

Design and Experiment Study of an Internal Cold-Cathode Ion Source for the 230 MeV SC Cyclotron

Speaker

Xianlu Jia

The Beam Injection Line Test of CYCIAE-100 Cycotron

Speaker

Xianlu Jia

New Calibrated Evaporation Oven for Time of Flight Mass Spectrometer in Offline SPES Laser Laboratory

Speaker

Mr Massimo Rossignoli

19:00