

Session Program

15-20 Oct 2017



17th International Conference on Ion Sources

Poster Session 2

CERN

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

Tuesday 17 October

16:30

Poster Session 2: Tuesday

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

Neutral Beam Injection System for the C-2W Field Reversed Configuration Experiment

Speaker

Dr Alexander Dunaevsky

REGLIS3 at S3 for the Production of High Purity Refractory RIBs

Speaker

Dr Nathalie Lecesne

Development of an Off-Line Negative Ion Source for the Characterization of the Photodetachment Detector GANDALPH

Speaker

David Leimbach

Particle Model of the Driver of the Negative Ion Source for ITER Neutral Beam Injection System

Speaker

Nicola D. Ippolito

Ion Sources for New Radioactive Refractory Element Beams at CERN-ISOLDE

Speaker

Jochen Ballof

Work Function of Caesiated and Cs-Free Materials for Enhanced H⁻ Surface Production

Speaker

Dr Roland Friedl

Recent Results in Modeling of LANSCE H⁻ Surface Converter Ion Source

Speaker

Dr Ilija Draganic

Numerical Analysis of Negative Hydrogen Ion Beam Optics by Using 3D3V PIC Simulation

Speaker

Dr Kenji Miyamoto

System for Voltage Control and for Data Acquisition of Retarding Field Energy Analyzer

Speaker

Dr Matteo Brombin

Numerical Analysis of Ion Dynamics in RF ICP Discharge

Speaker

Kenjiro Nishida

Development of Cesium-Free Negative Ion Source by Using High Density Sheet Plasma

Speaker

Mr Shogo Ishihara

The Effect of Transport and Extraction of Non-Uniform Surface Produced H^- in Large Multi-Aperture Negative Ion Sources

Speaker

Mr Shinya Fujita

Numerical Simulation of the EEDF and the Neutral Transport in the DC Arc-Discharge Hydrogen Negative Ion Source for Medical Use

Speaker

Mr Shota Yamada

Present Status of the J-PARC Cesiumated RF-Driven H^- Ion Source

Speaker

Dr Katsuhiko Shinto

Development of the Plasma Impedance Prediction Model in Radio Frequency Negative Ion Sources

Speaker

Wakaba Kobayashi

Development of an Electron Attachment Type Negative Fullerene Ion Source

Speaker

Keisuke Yamada

Long-Term Performance of CW Negative Hydrogen Ion Source at BINP Tandem Accelerator

Speaker

Andrey Sanin

The Improvement of CSNS Ion Source

Speaker

Dr Shengjin Liu

First Experimental Results of the Helicon Driver on Cybele

Speaker

Mr Iaroslav Morgal

Performance of PKU H^- Source with Liners of Different Materials

Speaker

Mr Tao Zhang

Parametric Dependence of Hydrogen Plasma Lyman-Band Emission and H^- Ion Beam Intensity in LIISA Ion Source

Speaker

Sakari Lätti

Modification of a classical Penning Ion Source operating mode for Sub-Femtoampere Beams at the U-120M Cyclotron

Speaker

Tomas Matlocha

Effect of Filter Field and Biased Double-Bias Plate on Volume Process in Negative Ion Sources**Speaker**

Carlo Baltador

Construction of External Antenna RF H⁻ Source in CSNS**Speaker**

Dr Weidong Chen

Global Model of a Negative Hydrogen Ion Source with Caesiated Plasma Grid**Speaker**

Dr Seth Veitzer

Optimization of the Cesium Process for the SNS H⁻ Ion Sources**Speaker**

Dr Baoxi Han

Record Performance of the Spallation Neutron Source H⁻ Injector**Speaker**

Dr Martin Stockli

Resonant Ionization of Atomic Te with Ti:Sapphire Lasers**Speaker**

Yuan Liu

Response of Negative-Ion Beamlet by Insulation Tip in the Vicinity of Plasma Grid**Speaker**

Haruhisa Nakano

Scaled Penning Source Developments**Speaker**

Dan Faircloth

Production of Ruthenium-96 Ions for RHIC***Speaker**

Dannie Steski

Langmuir Probe Characterization of the NIO1 Ion Source Plasma**Speaker**

Pierluigi Veltri

Diagnostics and Improvements for the LANSCE H⁻ Ion Source**Speaker**

David Kleinjan

Improvements to a 13.56 MHz RF Powered H⁻ Ion Source**Speaker**

Stephane Melanson

Alternative New Concept of an Efficient Negative Ion Source for Neutral Beams

Speaker

Michele Fadone

Isotope Separator for External Ion Injection into EBIS**Speaker**

Sergey Kondrashev

Advanced Filter Structures for NIO1 and other Negative Ion Sources**Speakers**

Marco Cavenago, Marco Cavenago

Comparison of Ion Beam Profile Measuring Methods**Speaker**

Dr Nikita Mamedov

Beam Energy Recovery for Fusion: Secondary Electrons Problem Study and Experimental Tests**Speaker**

Vincenzo Variale

Simulation of Charge-Breeding Processes in ECRIS**Speaker**

Dr Vladimir Mironov

A Prototype Target-Ion Source for RIB Production in a Reactor**Speaker**

Baoqun Cui

R&D of Radio Frequency Ion Source for Neutral Beam Injector in ASIPP**Speaker**

Yahong xie

Status of Arc Based High Power Ion Source for EAST Neutral Beam Injector**Speaker**

Chundong Hu

Towards Direct High-Resolution Laser Spectroscopy on Exotic Isotopes at Hot Cavity Ion Sources: Crossed Laser - Atom Beam Interaction in the Laser Ion Source Trap LIST**Speaker**

Reinhard Matthias Heinke

Effect of Plasma Grid Bias on Negative Ion Beam Optics**Speaker**

Dr Masashi Kasaki

Experimental Realization of Non Resonant Photon Neutralizer for Negative Ion Beams. Concept of Neutralizer for Big NBI Systems**Speaker**

Dr Sergey Popov

Modelling of Negative Ion Extraction from a Magnetized Plasma Source

Speaker

Dr Gwenael Fubiani

Laboratory Experiments for Developments in View of DEMO NNBI

Speaker

Dr Roland Friedl

Development of helium ion source for NPA system in ITER

Speaker

Vladimir Davydenko

Update on the Negative Ion Based Neutral Beam Injectors for ITER

Speaker

Dr Beatrix Schunke

Power Transfer Efficiency in Inductively Coupled Radio-Frequency Ion Source: Case Study for the NIO1

Speaker

Ms Palak Jain

Investigate the Characteristics of Oxide of Zr^{96}

Speaker

Takahiro Karino

Upgrade of the Low Energy, High Power Neutral Beam System

Speaker

Petr Deichuli

Experimental Study of Matching Network with Different Frequency for RF Ion Source

Speaker

Dr Caichao jiang

Benchmark of 3D Multi-Beamlet Numerical Models for the Optics Design of Negative Ion Accelerators

Speaker

Dr Giuseppe Chitarin

Conceptual Design of an Ion Source for the DAMAVAND Neutral Beam Injection

Speaker

Mr Aref Eshkevar Vakili

Recent improvements of the LPSC Charge Breeder

Speaker

Julien ANGOT

The Effect of Plasma Instabilities on the Background Impurities in Charge Breeder ECRIS

Speaker

Dr Olli Tarvainen

Charge Breeding Technique at GANIL: Commissioning of the SPIRAL1 Charge Breeder and New $1+/n+$ Test Bench

Speaker

Laurent Maunoury

High Power and Long Pulse Negative Ion Production by Suppressing of Arcing for JT-60SA**Speaker**

Masahiro Ichikawa

Design Study of 200 keV H⁻ Accelerator for CFETR Neutral Beam Test Facility**Speaker**

Jianglong Wei

Experimental Validation of Grid Heat Loadings in the Five-Stage Accelerator with the ITER-Relevant Gap Lengths**Speaker**

Junichi HIRATSUKA

Overview of the Beam Physics Investigation at the ELISE Test Facility**Speaker**

Dr Dirk Wunderlich

Laser Ion Source for High Resolution Doppler-Free Resonance Ionization Spectroscopy of Radioisotopes and Enhanced Isomer Selectivity**Speaker**

Katerina Chrysalidis

Commissioning and First Results of the ASIPP RF-Driven Negative Ion Source**Speaker**

Jianglong Wei

Distributions of Primary-Electron Populations in Different Magnetic Filter Configurations**Speaker**

Jianglong Wei

Electron and Ion Beam Simulations for the BNL Extended EBIS at Brookhaven National Laboratory**Speaker**

Shunsuke Ikeda

Slow Extraction of Charged Ion Pulses from the REX-EBIS**Speaker**

Niels Bidault

Numerical Investigation of the Early Operational Phase of the Negative Ion Test Facility SPIDER: Beam Features and Diagnostics**Speaker**

Gianluigi Serianni

The CANREB Project for Charge State Breeding at TRIUMF**Speaker**

Dr Friedhelm Ames

Effects of the CARIBU EBIS Trap Configuration on Extracted Ion Beam Characteristics

Speaker

Clayton Dickerson

Charge Breeding of CO^{+} Beams at REX-ISOLDE

Speaker

Johanna Pitters

Towards Ga^{+} and Au^{+} Ion Injection into ESIS: Mock-Setup Experiments and Ion Beam Profiling.

Speaker

Dr Thomae Rainer

Status and Development of the MARA Low-Energy Branch

Speaker

Taneli Kalvas

The First Radioactive Ion Beam at the Beijing Radioactive Ion-Beam Facility

Speakers

Bing Tang, Baoqun Cui

Development of High Current Density Helicon Ion Source for DNB in VEST

Speaker

Mr Kihyun Lee

Study of Isotope Effects in Hydrogen Negative Ion Sources

Speaker

Masashi Kisaki

Comparison of Beam to Arc Discharge Current Ratio Between Hydrogen and Deuterium Operations in LHD-NBI Ion Sources

Speaker

Haruhisa Nakano

19:00