

## Thu, October 23

3:30 PM

## **THPT** poster session: THPT

**Poster Session** | **Location:** conference center, third floor

Development of Readout System for Target Multi-Wire Scanner Beam Profile Measurement of CSNS-II

Speaker

Zhijun Lu

RF-Track for beam dynamics studies in high-intensity hadron linacs

Speaker

Andrea Latina

Measurements of Linear Resonances and Stopbands on the ISIS Ring

Speaker

ESMAEIL AHMADI

**Dynamic Aperture Tracking for High-Intensity Proton Accelerators** 

Speaker

Jiajie Tan

Modeling the dynamics of third-generation electron cyclotron resonance ion sources

Speaker

Wang Xinyu

Development of a Machine Learning tool for LEBT Optimisation at ISIS

Speaker

Xingchi Liu

Commissioning of an Optical IPM for the CSNS LINAC

Speaker

Mengyu Liu

Design of a laser-based emittance meter for the H- beam at CSNS

Speaker

Biao Zhang

Effect of intrabeam scattering on the bunched beam Schottky noise

Speaker

Valeri Lebedev

Progress of CNT multi-wire beam profile monitor for CSNS-II

Speaker

Zhijun Lu

Beam Dynamics of a High-frequency RFQ with Nested Solenoid

Speaker

Zhongshan Li

## Parametric resonance in a heavy ion synchrotron

#### Speaker

Fucheng Cai

### **Longitudinal Localized Excitation Slow Extraction Method**

## Speaker

Yang Xiong

## High-intensity beam tests in the CERN Proton Synchrotron

#### Speaker

Heiko Damerau

## Online Measurement of Beam Phase and Energy Gain Based on Beam-Cavity Interaction

### Speaker

Mr Lingyun Gong

## Applications of Machine Learning in Beam Commissioning and Operation at CSNS

#### Speaker

Xiaohan Lu

# The experimental evaluation of third-order resonance correction using 8 Trim-S in J-PARC MR

### Speaker

Yulian Tan

### The study of the energy spread measurement at linac of CSNS

### Speaker

Yanliang Han

## Transverse 4D phase space reconstruction using wire scanner measurements at the CSNS Linac

### **Speaker**

Xingguang Liu

## Application of autoresonance in rapid beam extraction of synchrotrons

## Speaker

Ding Xiao

## Beam loss mechanism by parasitic negative hydrogen in high power proton linac

### Speaker

Duanyang Jia

## Compensation of third-order resonances in the presence of strong space-charge effect

### Speaker

Lei Wang

## Design of 6D cooling and final cooling channels for a muon collider

## Speaker

Ruihu Zhu

# Time-resolved space charge compensation studies at the high-intensity KOMAC beam test stand

### Speaker

Emre Cosgun

## 162.5MHz SINGLE-BUNCH SELECTION ULTRA-FAST BIPOLAR CHOPPER POWER SUPPLY DESIGN

#### Speaker

Xin Qiao

Calibration of MEBT Buncher Cavity Voltage and Validation of Phase-Sweep Fitting Method via Time-of-Flight Measurement

#### Speaker

Shengzhuo Xue

Ion Source System: Maximum Extracted Oxygen Beam Current and Emittance Boundary Measurement

#### Speaker

YUNHUI BAO

Beam dynamics design of the superconductiong section of a 100 mA superconducting linac

### Speaker

Ms Man Yi

Study on Resonance and Instability in High-Intensity Beams Based on Envelope Oscillation Theory and Optimization of Beam Transport

#### Speaker

Tao Zhang

Beam Dynamics Design and Beam commissioning of a Compact Accelerator-Based Neutron Source with a double Einzel-Lens LEBT and RFQ

### Speaker

Haoquan Su

Measurement and optimization of the beam coupling impedance of a novel 3D printed titanium alloy cage inside the thin-wall vacuum chamber

### Speaker

Guangyu Zhu

Reducing Energy Spread of Low-Energy Slow Extracted Beam Using Longitudinal Localized Excitation Method

### Speaker

Chuhao Li

Impact of longitudinal beam feedback on single-bunch instabilities

### Speaker

Leandro Intelisano

Xsuite for simulation of high-brightness, high-intensity hadron beams

### Speaker

Riccardo De Maria

Third-order resonances and the correction in J-PARC MR

### Speaker

Susumu Igarashi

# Design of a 2300 W 352 MHz solid-state amplifier module with Integrated EtherCAT interface for monitoring and control

#### Speaker

Mr William Leijenaar

## Techniques and progress in beam transverse emittance measurement at the CSNS RCS

### Speaker

Yong Li

## Electron cooling using longitudinal hollow electron beam

### **Speakers**

Dr He Zhao, Xiaodong Yang

### The slow extraction feedback system at HIRFL-CSR

### Speaker

Tong Liu

## Beam Bunch Spacing Extension for Neutron Time-of-Flight Measurements at the LEAF

### Speaker

Yu Tang

## The Field Measurement of the Injection Painting Bump Magnets for the CSNS-II/RCS

### Speaker

Zixi Pang

## **Grided RF Gun Design**

## Speaker

Mr Zehua Liang

## **Design and Progress of CiADS Beam Line to Reactor**

### Speaker

Huan Jia

## On Fluid Modelling of Beam Instabilities with Wakefields and Direct Space Charge

### Speaker

Adrian Oeftiger

## Research on a Hybrid Coupled Cavity Accelerating Structure for Low-Energy High-Current Proton Beams

### Speaker

Mingze Tuo

# A beam line design of transverse beam profile uniformization using octupole magnets

### Speaker

Mr Haoye Wang

# Research on Optimization of Beam Fault Compensation in CiADS Superconducting Section Based on Reinforcement Learning

### Speaker

Tielong Wang

# Design of Differential Beam Current Measurement System for Fast Protection in CSNS-II Linac Upgrade

#### Speaker

Weiling Huang

## High-performance open-source beam dynamics simulation platform: PASS

### Speaker

Mingxuan Chang

## Research on High-Intensity Proton IH-DTL Accelerating Structure Based on APF

### **Speakers**

Jinghe Yang, Shilin Li

## Efficient Beam Tuning with Surrogate-Model Based Reinforcement Learning

### **Speaker**

Chunguang Su

# The isochronous mode operation with nonlinear optics characteristics of the SRing at HIAF

### Speaker

Wenwen Ge

### Beyond 1 MW Operation of the J-PARC RCS with Minimum Beam Loss

### **Speaker**

Pranab Saha

### Resonant Impedance simulation of RF shields on ceramic chambers

# Experimental study on the fast bunch merging in high-intensity hadron synchrotrons

### Speaker

Yaoshuo Yuan

## Tune Optimization for CSNS-II RCS: Simulations and Machine Studies

## Speaker

Jianliang Chen

# Position-phase error cancellation effects in beam-based linac alignment and synchronization

### Speaker

Haoyu Zhou

# Broadband capture and achromatic focusing of laser-driven protons for RF linac post-acceleration

## Speaker

Haoyu Zhou

## Simulation Study on Magnet and RF Failures in the Linear Accelerator of CSNS-II

### Speaker

Yuwen An

# Preliminary Design of a Compact High-Flux Neutron Source Based on a Proton Linac

Speaker

Xingguang Liu

# H- Beam Halo Collimation using Stripping and Applications of the Secondary Proton Beam

**Speaker** 

Zhiping Li

## MODIFIED ENVELOPE EQUATIONS WITH CONSIDERATION OF AC-CELERATION AND ITS APPLICATIONS IN BEAM DYNAMICS STUDY

Speaker

Xinmiao Wan

ICONE: insights from the early stages of the compact neutron source accelerator

Speaker

Jonathan Dumas

## Beam dynamics design of a Superconducting RFQ for CiADS

Speaker

Shilong Gao

Upgraded Design of the IMP High-Current Continuous-Wave Compact SRF Electron Linac

Speaker

Yimeng Chu

Development and Commissioning of the Fast Beam Loss Monitor System at HIAF

Speaker

Long Jing

Fault Tree Modeling and Reliability Analysis of the CAFE2 Accelerator

Speaker

Xin Ma

## Impedance in matter

Speaker

Elias Métral

Design considerations of the bunch-by-bunch transverse feedback system for the CSNS RCS

Speaker

Weiwen Chen

Maximum entropy tomography in 4D transverse phase space with frozen space charge

Speaker

Liwen Liu

5:30 PM