

Session Program

7-11 Sept 2025



IBIC2025 - 14th International Beam Instrumentation Conference

MOP

Teaching Hub 502
The University of Liverpool 160 Mount Pleasant L3 5TR Liverpool

Monday 8 September

16:00

MOP: Monday Poster Session

Session | **Location:** Teaching Hub 502, The University of Liverpool 160 Mount Pleasant L3 5TR Liverpool

16:00–18:00

Beam loss monitoring system at SOLARIS

Speaker

Klaudiusz Dudek

16:00–18:00

Development of Monitoring and Analysis System for Beam Operation in RAON

Speaker

Dr Eunhun Im

16:00–18:00

Data-Driven Prediction of Infrared Free-Electron Laser Performance Using BPM Measurements and Machine Learning

Speaker

can Liu

16:00–18:00

Operational experience with Machine Protection System for high current, high brightness accelerator

Speaker

Sergei Seletskiy

16:00–18:00

Current Development Status of Beam Diagnostics Electronics at SSRF

Speaker

Longwei Lai

16:00–18:00

Beam Diagnostics of the NEWGAIN Project

Speaker

Christophe Jamet

16:00–18:00

Overview of Diagnostics and Instrumentation for Siam Photon Source-II

Speaker

Porntip Sudmuang

16:00–18:00

An overview of the beam instrumentations for the CSNS upgrade

Speaker

Renjun Yang

16:00–18:00

Exploring beam diagnostic performances of cSTART using the KARA booster synchrotron

Speaker

Dima El Khechen

16:00–18:00

Optimization of Electron Transfer from a Source of Polarized Electrons with Improved Visual Laser and Electron Beam Diagnostics**Speaker**

Michael Switka

16:00–18:00

The new SLS 2.0 Booster-to-Ring Transfer Line - Design Criteria, Diagnostics Layout and First Beam Results**Speaker**

Volker Schlott

16:00–18:00

Commissioning of the CLARA Facility: Status Update and Diagnostics Performance**Speaker**

Thomas Pacey

16:00–18:00

Development of a fast extraction method for short high intensity pulses at ELSA**Speaker**

Michael Switka

16:00–18:00

First Attila4MC simulations for the high-power proton accelerator of the European Spallation Source**Speaker**

Elena Donegani

16:00–18:00

The CEPC beam instrumentation design and R&D status**Speaker**

Yanfeng Sui

16:00–18:00

Development of an Imaging Protocol for Laser Driven X-ray Sources**Speaker**

Evan Kiely

16:00–18:00

Diagnostic Contributions to the Commissioning of SLS 2.0**Speaker**

Cigdem Ozkan Loch

16:00–18:00

A Large Language Model to Assist Users of Beam Instrumentation in HIPA**Speaker**

Rasmus Ischebeck

16:00–18:00

Quantum efficiency measurements and beam diagnostics test stand design for a dual-mode electron gun at ELSA**Speaker**

Samuel Kronenberg

16:00–18:00

Design Status of the Electron-Ion Collider Beam Instrumentation

Speaker

David Gassner

16:00–18:00

Commissioning of the 71 MeV beam delivery line of the TOP-IMPLART accelerator**Speaker**

Paolo Nenzi

16:00–18:00

Diagnostics Layout for the PERLE Injector**Speaker**

Alex Fomin

16:00–18:00

EPAC Beamline Prototype: Development and Optimization of a High-Repetition-Rate LWFA System**Speaker**

KIRILL FEDOROV

16:00–18:00

The Beam Test Facility of the National Laboratories of Frascati**Speaker**

Dr Eleonora Diociaiuti

16:00–18:00

Challenges with the beam destinations for the ESS linac**Speaker**

Elena Donegani

16:00–18:00

Beam Instrumentation for the new linear accelerator at the CLS**Speaker**

Tonia Batten

16:00–18:00

Design of High Speed Digital Acquisition for Beam Current Monitor**Speaker**

R. Turner White

16:00–18:00

Design of the LCLS-II HE Burn-Through Monitor Readout Electronics**Speaker**

John Dusatko

16:00–18:00

Machine vision cameras for beam spot analysis**Speaker**

Michael Bree

16:00–18:00

Joint Analysis of Beam Loss and Beam Position During the Injection Process at Hefei Light Source**Speaker**

Yunzhi Xiao

16:00–18:00

Performance of the Cryogenic Beam Loss Monitors Developed at the LHC**Speaker**

Ewald Effinger

16:00–18:00

Non-linear optimization of Iranian Light Source Facility storage ring using MOGA**Speaker**

Kowthar Noori

16:00–18:00

Upgrade of the BPM Processor for SXFEL**Speaker**

Longwei Lai

16:00–18:00

A Proposed CEBAF Diagnostics Upgrade**Speaker**

Nathan Rider

16:00–18:00

Development of 4GSR BPM Electronics for the Korean 4th Generation Storage Ring**Speaker**

Si-Won Jang

16:00–18:00

Performance Validation of High-Gradient X-Band Structures at the University of Melbourne's X-LAB**Speaker**

Matteo Volpi

16:00–18:00

Development of a wide dynamic range and high-precision ammeter for beamline instrumentation at SIRIUS**Speaker**

Patricia Nallin

16:00–18:00

Study of UV-VIS Emissions from Heavy Ions Interacting with Matter at SIS Extraction Energies**Speaker**

Rupeshkumar Ghagi

16:00–18:00

Minimally-invasive real-time beam current approximation for light ion beams using existing beam profile monitors in ATLAS.**Speaker**

David Novak

16:00–18:00

DESIGN STUDIES OF A RETARDING POTENTIAL ENERGY ANALYSER (RPEA) FOR LOW-ENERGY ANTIMATTER EXPERIMENTS**Speaker**

Bharat Rawat

16:00–18:00

Exceptional Point Electronics for Beam Instrumentation**Speaker**

Arnold Stillman

16:00–18:00

A 3GHz Wall Current Transformer for Very High Bandwidth Beam Current Measurements**Speakers**

Frank Stulle, Pierre Korysko

16:00–18:00

Development of Wall Current Monitor on FETS-FFA Test Ring**Speaker**

Emi Yamakawa

16:00–18:00

Development of a Faraday Cup for the FETS-FFA**Speaker**

Sushanta Sapkota

16:00–18:00

Large Dynamic Range Beam Intensity Measurement of Both H0 and Proton Beams in Injection Upgrade of CSNS-II**Speaker**

Weiling Huang

16:00–18:00

Investigation and improvement of slow extraction quality at HIRFL-CSRm**Speaker**

Tong Liu

16:00–18:00

Measurements of Dark Current and Breakdown Processes using Faraday Cups and Fast Digitisers at the XBand Laboratory for Accelerators and Beams (XLAB)**Speaker**

Matteo Volpi

16:00–18:00

Monitoring modulated slow extraction spills with capacitive pick-ups**Speaker**

Rahul Singh

16:00–18:00

Development of Current Monitor for Stacking Beam in FETS-FFA Test Ring**Speaker**

Emi Yamakawa

16:00–18:00

Realisation of a Faraday Cup for the Gun of PERLE Accelerator**Speaker**

Dr Sidi Mohammed Ben Abdillah

16:00–18:00

Signal reconstruction method applied in HEPS beam charge measurement**Speaker**

Ying Zhao

16:00–18:00

Development of a novel DC Current Monitor device, based on Tunnelling MagnetoResistive sensors, for ion beam current measurement

Speaker

Carmelo Manna

16:00–18:00

Simulation and feasibility analysis of a Non-Invasive Cavity Beam Current Monitor for Low-Energy Antiproton beams**Speaker**

Sruthy Chandran

16:00–18:00

Bunch-by-bunch beam current and lifetime measurement with interleaved sampling at Hefei Light Source**Speaker**

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16:00–18:00

CERN Secondary Emission Monitor Response: Insights from Artificial Neural Networks**Speaker**

Dani Metin

16:00–18:00

CSNS-II superconducting Section Beam Loss Measurement Electronic Design**Speaker**

Weiling Huang

16:00–18:00

Development of Beam Signal Processors for SHINE**Speaker**

Longwei Lai

16:00–18:00

Robotic Solution for BLM Detector Maintenance in High Radiation Areas**Speaker**

Ewald Effinger

16:00–18:00

Next-Gen Middleware for Fermilab Beam Instrumentation DAQ Systems**Speakers**

Derek Steinkamp, Shreya Joshi

16:00–18:00

Application of Convolutional Neural Networks for Pile up correction in single particle counting**Speaker**

Tobias Habermann

16:00–18:00

Development of an Integrated Control and Monitoring System for Centralized Beam Operation at RAON**Speaker**

Jangwon Kwon

16:00–18:00

End to end simulations of a novel optical fibre monitoring system for energy recovery LINACs**Speaker**

Angus Jones

16:00–18:00

Design and Implementation of Embedded System in HIAF Beam Diagnostics System**Speaker**

Ruixia Tian

16:00–18:00

Development of BPM electronics for PIP-II at Fermilab**Speaker**

Shengli Liu

16:00–18:00

Development of CMOS beam loss monitor for Korea-4GSR**Speaker**

Bokkyun Shin

16:00–18:00

Optimization of beam intensity measurement system of HIPA at PSI**Speaker**

Pascal Huber

16:00–18:00

Measuring the effects of fast beam loss on the APS-U storage-ring collimators**Speaker**

Jeffrey Dooling

16:00–18:00

First Beam Commissioning Experience With RF System On Chip Based Bunch By Bunch Signal Processing Systems at SLS 2.0**Speaker**

Pedro Baeta Neves Diniz Santos

16:00–18:00

Study of Gas Bremsstrahlung for 3 GeV Electron Storage Ring Using FLUKA Monte Carlo Code**Speaker**

Samira Mohammadi Alamouti

16:00–18:00

Development and Characterisation of a Radiation-Tolerant Power Supply for Beam Instrumentation**Speaker**

Ewald Effinger

16:00–18:00

Optical beam loss monitor installed at the SPS extraction region**Speaker**

Montague King

16:00–18:00

Web Streaming Integration for the TLS Beam Size Monitoring Broadcast System

Speaker

Lin-Pin Hsu

16:00–18:00

PIP II machine protection system ADC data noise elimination and de-ripple algorithm**Speaker**

Jinyuan Wu

16:00–18:00

Beam Loss Measurements during Injection into the Advanced Photon Source Upgrade Storage Ring**Speaker**

Jeffrey Dooling

16:00–18:00

Considering the Suitability of X-Ray Detectors for Medical Imaging and Accelerator Applications**Speaker**

Lauryn Eley

16:00–18:00

Design and development of turn-by-turn and bunch-by-bunch high-speed 128-channel data acquisition electronics applied to the HIAF facility**Speaker**

ZhiXue Li

16:00–18:00

Compact NMR Magnet Design for In-Vivo Measurement Applications**Speaker**

Daliya Aflyatunova

16:00–18:00

Advancements in Cherenkov fiber-based machine protection system at TRIUMF's e-Linac**Speaker**

Richard Hermann

16:00–18:00

Performance evaluation of tailored shielding for energy-selective neutron detection in reactor environments**Speaker**

Andrew Jones

16:00–18:00

Early Prediction of System Failures at Los Alamos Nuclear Science Center (LANSCE)**Speaker**

Nikolai Yampolsky

16:00–18:00

High-resolution diagnostics of the TOP-IMPLART 71 MeV proton beam using photoluminescent color centers in LiF crystals

Speaker

Enrico Nichelatti

16:00–18:00

X-RAY CHARACTERIZATION OF A HIGH-ENERGY Gd₂O₂S FLAT PANEL FOR ELSA FACILITY**Speaker**

Rudolf ROSCH

16:00–18:00

Physics-Guided ML Driven Data Expansion for Photocathodes using TESS Measurements**Speaker**

Saransh Malhotra

16:00–18:00

Web Streaming Integration for the TLS Beam Size Monitoring Broadcast System**Speaker**

Lin-Pin Hsu

16:00–18:00

Modelling, anomaly detection and classification of slow losses using machine learning for Diamond-II Beam Loss Monitors**Speaker**

Mr Corey Lehmann

16:00–18:00

Characterization of the radiation environment in the FCC-ee tunnel**Speaker**

Alessandro Frasca

16:00–18:00

LHC BLM System Automations for Fault Prognosis, Detection and Issue Tracking**Speaker**

Dion Tzamarias

16:00–18:00

Software Upgrade of Beam Diagnostics Readout System Based on PXIe Hardware**Speaker**

Weiling Huang

16:00–18:00

The SPS Beam Loss Monitoring System renovation plan**Speaker**

Eva Calvo Giraldo

18:00