

Session Program

7-11 Sept 2025



IBIC2025 - 14th International Beam Instrumentation Conference

TUP

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

Tuesday 9 September

16:00

TUP: Tuesday Poster Session

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

16:00–18:00

Design and Testing of a Universal Embedded Feedback Controller for RF Cavities

Speaker

Ashish Sharma

16:00–18:00

Design of a laser-based emittance meter for the H- beam based upon LGAD sensor

Speaker

Cheming Chen

16:00–18:00

Performance of Titanium, Tungsten, and Carbon as Beam Profile Monitor Materials

Speaker

Dani Metin

16:00–18:00

Time-resolved measurements of transverse beam excitation in an electron storage ring

Speaker

Marvin Noll

16:00–18:00

Low energy experimental bench (LEEx-B) and emittance-meter developments at IPHC

Speaker

Emil Traykov

16:00–18:00

Transverse emittance measurements of electron beams from the superconducting RF gun at Helmholtz-Zentrum Dresden-Rossendorf for high-current operation

Speaker

Raffael Niemczyk

16:00–18:00

Cherokov radiation spectral and resolution properties studies at SINBAD ARES

Speaker

Gero Kube

16:00–18:00

Upgraded beam profile monitoring using Chromox and fiber optic imaging for high-radiation environments

Speaker

Alexander Gottstein

16:00–18:00

Designing a next generation beam wire scanner for the Large Hadron Collider**Speaker**

Harry Sullivan

16:00–18:00

Design and implementation of Allison scanner at the KOMAC LEBT**Speaker**

Seok Ho Moon

16:00–18:00

Upgrade of Screen Monitor System for SPS-I Linac Injector**Speaker**

Thakonwat Chanwattana

16:00–18:00

Beam Energy Measurement with X-ray Scintillator Imaging in the 6-MeV Linac at SLRI**Speaker**

Thakonwat Chanwattana

16:00–18:00

Current status of developing peeper-pot emittance monitor for high-intensity ion beam**Speaker**

YASUTERU KOTAKA

16:00–18:00

Design and Programming of a Multifunctional Device for Accelerator Beam Profile Measurement and Beam Stop**Speaker**

Muhammad Abdul Rehman

16:00–18:00

Status of oscillating arm wire monitor development**Speaker**

Dr Rudolf Dölling

16:00–18:00

Phase contrast issues operating pinhole cameras with low-emittance beams**Speaker**

Nicolas Hubert

16:00–18:00

Study of Optical Synchrotron Radiation as a Non-Invasive Tool for emittance diagnostics**Speaker**

Debdeep Ghosal

16:00–18:00

IRRADIATION TESTS OF A DIGITAL RADIATION-TOLERANT CAMERA FOR CERN'S PARTICLE ACCELERATOR INSTRUMENTATION**Speaker**

Stephane Burger

16:00–18:00

UPGRADE AND EVOLUTION OF THE AD TARGET BEAM IMAGING SYSTEM AT CERN: A TWO-YEAR PERFORMANCE ANALYSIS**Speaker**

Stephane Burger

16:00–18:00

PEPITES: an ultra-thin beam profiler with wide dynamic range for charged particle beams**Speaker**

Marc VERDERI

16:00–18:00

Experimental Investigation Into Supersonic Gas Jet Induced Beam Perturbation**Speaker**

William Butcher

16:00–18:00

R&D of an Ultrafast X-ray Beam Size Monitor for SuperKEKB**Speaker**

Riku Nomaru

16:00–18:00

Exploiting Non Redundant Aperture Interferometry as a Diagnostics Tool for Synchrotron Light Characterization**Speaker**

Laura Torino

16:00–18:00

Development of an optical simulation toolkit for transverse beam profile characterization**Speaker**

馨茹 高

16:00–18:00

Development of White Beam Profile Monitor for Korea-4GSR**Speaker**

Woojin Song

16:00–18:00

Gas Sheet Beam Profile Monitor Test Performance at Crocker Nuclear Lab. Cyclotron**Speaker**

Sebastian Szustkowski

16:00–18:00

Novel gas jet-based measurement method for beam profile and emittance analysis on the HUN-REN EK-CER microwave proton ion source**Speaker**

András Zsákai

16:00–18:00

Development of low density materials for beam intercepting instruments**Speaker**

Raymond Veness

16:00–18:00

Research and development of a radiation hard beam profile monitor for use in the CERN North Area secondary beamlines**Speaker**

Inaki Ortega

16:00–18:00

Enhanced techniques for transverse beam profile measurement by two-slit interference at ILSF**Speaker**

Sasan Ahmadiannamin

16:00–18:00

Measurement of transverse profile in electron linacs: recent advances in SwissFEL**Speaker**

Rasmus Ischebeck

16:00–18:00

Beam size measurement at SBL in SuperKEKB**Speaker**

Hitomi Ikeda

16:00–18:00

OTR beam profile monitor for online measurements**Speaker**

Changchun Sun

16:00–18:00

Reconstruct phase space of high intensity beams using machine learning**Speaker**

Hao Zhang

16:00–18:00

Direct X-Ray imaging for the new pinhole diagnostics at BESSY II**Speaker**

Marco Marongiu

16:00–18:00

Progress on Gas-Sheet Beam Profile Monitor**Speaker**

Ippei Yamada

16:00–18:00

Gas-Jet based Ionization Profile Monitor for Proton FLASH Therapy**Speaker**

Farhana Thesni Mada Parambil

16:00–18:00

Developing radiation-tolerant transverse beam imaging using machine learning**Speaker**

Mr Qiyuan Xu

16:00–18:00

Overview of the Pinhole Camera Design for the Diamond-II Upgrade**Speaker**

Dr Niki Vitoratou

16:00–18:00

Low-Density Wires for Beam Halo Monitoring

Speaker

Gerard Aliana Cervera

16:00–18:00

Development of a High-Gain Residual Gas Ionization Profile Monitor (HGRGIPM) for the slow extraction proton beamline at the J-PARC Hadron Experimental Facility**Speaker**

akihisa toyoda

16:00–18:00

Evaluation of a 4D phase-space mapping using two orthogonal slits**Speaker**

Weiwen Chen

16:00–18:00

Development of Wire Scanner Profile Monitor in FETS-FFA Test Ring**Speaker**

Emi Yamakawa

16:00–18:00

Performance of the Beam Gas Curtain as emittance monitor at the Large Hadron Collider**Speaker**

Daniele Butti

16:00–18:00

High-Precision Profile Measurement with COTR Interference Resistance**Speaker**

Lianfa Hua

16:00–18:00

Status of the Synchrotron Radiation Telescope at the Large Hadron Collider**Speaker**

Daniele Butti

16:00–18:00

Development of a Cherenkov Radiation-Based Beam Profile Monitor for a Muon Linear Accelerator**Speaker**

Risa Nakagawa

16:00–18:00

Development and experimental validation of a PI control system for synchrotron X-Ray beam stabilization**Speaker**

Niccolò La Rosa

16:00–18:00

Laser transport and stabilization for the CSNS laser wire profile monitor prototype**Speaker**

Cheming Chen

16:00–18:00

4D transverse beam characterization with a virtual pepper pot

Speaker

Christopher Richard

16:00–18:00

Evaluation of accuracy and resolution of the electron beam profile scanner at the Fermilab Main Injector**Speaker**

Matilda Mwaniki

16:00–18:00

Design of a Non-Invasive Laser-based Beam Profile Monitor System for the New Fermilab PIP-II Superconducting H- Linac**Speaker**

Randy Thurman-Keup

16:00–18:00

Turnkey scintillating beam profiler for high-resolution and high-rate beam diagnostics**Speaker**

Dr Benoit Truc

16:00–18:00

Nanostructured targets for advanced beam diagnostics**Speaker**

Mirko Siano

16:00–18:00

Novel hollow core optical fibre-based radiation sensing technique for medical applications and extreme environments.**Speaker**

Robert Larsen

16:00–18:00

Preliminary data analysis of the CSNS RCS IPM prototype**Speaker**

Renjun Yang

16:00–18:00

Passive Transverse Beam Profiler for Real-Time Monitoring for FLASH radiotherapy**Speaker**

Milaan Patel

16:00–18:00

IPM design and new ideas for HIAF**Speaker**

Mr Hong Ming Xie

16:00–18:00

Results from the new titanium wired harp at the Spallation Neutron Source***Speaker**

Dr Willem Blokland

16:00–18:00

Pre-commissioning of the wide-dynamic range Halo Monitor to be installed in the Fermilab MI-8 Line

Speaker

Betia Babacan

16:00–18:00

Emittance Characterisation at the RFQ Exit of FETS Using Tomographic reconstruction**Speakers**

Alan Letchford, Emi Yamakawa, Sarah Fisher, Sasan Ahmadiannamin

16:00–18:00

Study of pulsed jet operation for beam gas curtain monitors**Speakers**

Hao Zhang, Shakti Sethi

16:00–18:00

Using Machine Learning to accurately predict the transverse beam profile at CLARA's Interaction Point**Speaker**

Valentina Malconi

16:00–18:00

Overview of Beam Instrumentation at SPS-I Linac Injector**Speaker**

Thakonwat Chanwattana

16:00–18:00

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

Weiwen Chen

16:00–18:00

Commissioning of a laser wire profile monitor prototype at CSNS**Speaker**

Biao Zhang

16:00–18:00

Status of longitudinal instability suppression at NanoTerasu**Speaker**

Kota Ueshima

16:00–18:00

Requirements for equipment in Cooling Section of EIC Low Energy Cooler**Speaker**

Sergei Seletskiy

16:00–18:00

Fast Corrector Vessel Selection for High Bandwidth Fast Orbit Feedback**Speaker**

Shohan Banerjee

16:00–18:00

Feedbacks at Low Energy RHIC Electron Cooler**Speaker**

Sergei Seletskiy

16:00–18:00

Design and Prototyping for Diamond-II Stripline Kickers

Speaker
Alun Morgan

16:00–18:00 **Fast orbit feedback system upgrade plan for TPS**

Speaker
Chunyi Wu

16:00–18:00

Initial implementation of a new orbit feedback system using MicroTCA.4 for the PF user operations

Speaker
Ryota Takai

16:00–18:00 **Yilin Li**

Speaker
Ying Zhao

16:00–18:00

Conceptual design of collision feedback system for the Super Tau-Charm Facility

Speaker
Qi Chen

16:00–18:00

Side effects of bunch-by-bunch feedback system on SuperKEKB collider

Speaker
Makoto Tobiyama

16:00–18:00

Beam Stability with Ground Vibration Measurements at the Korea-4GSR

Speaker
Hyunchang Jin

16:00–18:00

A Closed-Loop Photon Beam Control Approach for the Siam Photon Source

Speaker
Thakonwat Chanwattana

16:00–18:00

Dependence of tune-sweep waveforms in Diamond on mode number

Speaker
Dmitrii Rabusov

16:00–18:00

Implementation and Initial Operation of the Bunch-by-Bunch Feedback System at SOLARIS

Speaker
Mateusz Szczepaniak

16:00–18:00

Model-based Optimal Control Design for Slow Orbit Feedback at the Siam Photon Source

Speaker
Thakonwat Chanwattana

16:00–18:00

Real-time embedded feedforward correction for SIRIUS undulators

Speaker

Patricia Nallin

16:00–18:00

Model Enhanced IPM Based Emittance Measurements at the BNL Alternating Gradient Synchrotron

Speaker

Christopher Hall

16:00–18:00

Wide range low cost digital RF phase shifter

Speaker

Klaus Zenker

18:00