

Session Program

7-11 Sept 2025



IBIC2025 - 14th International Beam Instrumentation Conference

WEP

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

Wednesday 10 September

16:00

WEP: Wednesday Poster Session

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

16:00–18:00

Button-Type Beam Position Monitors for Elettra 2.0: from design to real measurements.

Speaker

Dr Gabriele Brajnik

16:00–18:00

Performance evaluation of front-end attenuators and integrated gain calibration system for new BPM DAQ system at J-PARC MR

Speaker

Kenichirou Satou

16:00–18:00

Design strategy of the Frontend Blade X-ray Beam Position Monitors (FEXBPM) based on the MAX IV experience.

Speaker

Petr Ilinski

16:00–18:00

A new type of optical beam position monitor for light ions with relativistic energy

Speaker

Jürgen Bundesmann

16:00–18:00

Development of Pyroelectric Detectors for THz Diagnostics on CLARA

Speaker

Storm Mathisen

16:00–18:00

Development of a Rectangular Diagonal Cut-Plane BPM for the CSNS-II Injection Upgrade

Speaker

Muhammad Abdul Rehman

16:00–18:00

Bead Test Result of Cavity Beam Position Monitor for PAL-XFEL

Speaker

Changbum Kim

16:00–18:00

Development of Bunch Selector Modules for Double Bunch Operation in PAL-XFEL BPM Systems

Speaker

DongCheol Shin

16:00–18:00

Progress of the EIC HSR cold BPM mechanical design and integration

Speaker

David Gassner

16:00–18:00

Single-shot detection of short electron bunch shapes at MHz repetition rates using diversity electro-optic scheme with advanced reconstruction algorithms at EuXFEL and FLASH.

Speaker

Quentin Demazeux

16:00–18:00

Smith-Purcell and transition radiation based charged particle beam diagnostics for the femtosecond-range

Speaker

Blae Stacey

16:00–18:00

MEASUREMENT OF CRABBING ANGLE WITH PHASE INFORMATION FROM BPM

Speaker

Igor Pinayev

16:00–18:00

Beam position monitors design for PERLE project

Speaker

Dr Sidi Mohammed Ben Abdillah

16:00–18:00

ChDR bunch length monitor improvements at CERN

Speaker

Jack McGunigal

16:00–18:00

Development and evaluation of an RFSoc based stripline BPM readout hardware prototype

Speaker

Bela Urbschat

16:00–18:00

Application of Phase Detectors at the Taiwan Photon Source

Speaker

Chih-Hsien Huang

16:00–18:00

Investigation of Diagonal Cut-Plane BPM Performance in the CSNS RCS

Speaker

Muhammad Abdul Rehman

16:00–18:00

Online position conversion factor calibration study for BPM system

Speaker

Jian Chen

16:00–18:00

Noninterceptive beam energy measurement of high-frequency free electron lasers

Speaker

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16:00–18:00

Beam Measurements during Swap-out Injection of the APS-U Storage Ring**Speaker**

Weixing Cheng

16:00–18:00

Novel high-current multichannel ammeter for X-ray Beam Position Monitoring (XBPM) applications**Speaker**

Niccolò La Rosa

16:00–18:00

Development of Analog Front-End Module for the BPM Signal Processor at SSRF**Speaker**

Longwei Lai

16:00–18:00

Design and Expected Performance of the new BPM systems for AWAKE Run 2C**Speaker**

Laurence Stant

16:00–18:00

Electro-optic sampling based measurement of near field of RF-compressed relativistic electron beams**Speaker**

Maximilian Lenz

16:00–18:00

Digital signal processing improvements of the SPIRAL2 Beam Position Monitors at low intensity**Speaker**

Pierre Salou

16:00–18:00

Machine learning based image processing technology for longitudinal phase space analysis in a compact THz-FEL**Speaker**

Anlin Lei

16:00–18:00

Current profile and longitudinal phase space measurement using a corrugated structure**Speaker**

Chang-Kyu Sung

16:00–18:00

Influence Analysis of Dipole Magnet Design and Beam Collimation in the High-Precision Energy Spectrometry System**Speaker**

Yifeng Zeng

16:00–18:00

Preparing the next phase of the steady-state microbunching proof-of-principle experiment at the Metrology Light Source**Speaker**

Arnold Kruschinski

16:00–18:00

Development of a Bunch-by-Bunch BPM Processor at SSRF Based on Direct RF Sampling**Speaker**

Longwei Lai

16:00–18:00

Bunch by bunch measurement by oscilloscope**Speaker**

Jun He

16:00–18:00

Spiral Beam Position Monitor for Heavy Ion Beams**Speaker**

Taihei Adachi

16:00–18:00

Accurate offline calibration and simulation analysis of various types of BPM position sensitivity**Speaker**

Peilin He

16:00–18:00

Design of spectrometer energy measurement setups for the future EuPRAXIA@SPARC_LAB and SSRIP linacs**Speaker**

Danilo Quartullo

16:00–18:00

Diamond dosimeter for the measurement of the proton beam impact position on a neutron spallation target**Speaker**

Julian Melbinger

16:00–18:00

Investigation of readout methods for electro-optical beam position monitor pickups**Speaker**

Daniel Harryman

16:00–18:00

Transverse and Longitudinal Beam Diagnostics and Characterizations at IUAC-High Current Injector**Speaker**

Dr Rajesh Hariwal

16:00–18:00

Beam Diagnostic for the DALI accelerator**Speaker**

Michael Kuntzsch

16:00–18:00

First measurements of a prototype Stripline BPM for PETRA IV: geometry effects and comparison with simulation**Speaker**

Gero Kube

16:00–18:00

Longitudinal bunch profile reconstruction via Cherenkov radiation in optical fibers**Speaker**

Matteo Volpi

16:00–18:00

Study of a novel eight electrodes RF pickup**Speaker**

Dr Aurora Ortega Moral

16:00–18:00

Single-shot electron bunch profile monitor based on coherent transition radiation imaging**Speaker**

Ana Maria Guisao Betancur

16:00–18:00

Development of Ultra-broadband Direct THz Detectors based on Schottky diodes and AlGaAs/GaAs FETs for Longitudinal Beam Diagnostics**Speakers**

Mr Rahul Yadav, Mr Bernhard Scheible

16:00–18:00

Theoretical and experimental Investigation, and resolution optimization, of Semiconductor-Based Sensors for Non-Fully Intercepting Whitebeam Monitoring of Synchrotron Beams**Speakers**

Mr Gabriele Trovato, Massimo Camarda, Mr Niccolò La Rosa

16:00–18:00

High-Frequency Beam Position Monitoring: A 500 MHz BPM System by Safran**Speaker**

Juan Fernández

16:00–18:00

Studies of longitudinal phase space tomography using booster cavity and dipole spectrometer**Speaker**

Mr Geunwoo Kim

16:00–18:00

Longitudinal Profile Measurements of Particle Beams with Deconvolution in the APS-U Storage-ring ***Speaker**

Weixing Cheng

16:00–18:00

CLS Timing System

Speaker

Tonia Batten

16:00–18:00

Gain calibration for X-Y coupling correction of X-ray beam position monitors at SPring-8 photon beamlines**Speaker**

Hideki Aoyagi

16:00–18:00

Suitability of GHz frequency beam position monitors for electron bunch position discrimination in the AWAKE facility**Speaker**

Bethany Spear

16:00–18:00

Ultrashort Relativistic Electron Bunch Characterization via High-Gradient THz Streaking**Speaker**

Maximilian Lenz

16:00–18:00

Electro-optical spectral interferometry longitudinal profile monitor design updates and performance on CLARA**Speaker**

David Walsh

16:00–18:00

Compact electro-optical bunch length detector: from an expert device to an operator tool**Speaker**

Bernd Steffen

16:00–18:00

MEASUREMENT OF TWO BEAMS POSITIONS WITH BUTTON BPM**Speaker**

Igor Pinayev

16:00–18:00

Versatile Bunch Length Measurement Setup for Low Bunch Charges at the S-DALINAC**Speaker**

Adrian Brauch

16:00–18:00

Design of Button Beam Position Monitor for the ILSF Storage Ring**Speaker**

Samira Mohammadi Alamouti

16:00–18:00

Design Study of the Beam Position Monitor for the Hadron Center at Kutaisi International University**Speaker**

Revaz Shanidze

16:00–18:00

Button BPM Development and Prototyping for ALBA II

Speaker

Laura Torino

16:00–18:00

Synchronisation performance of a fibre-based two-colour balanced optical cross-correlator**Speaker**

Jonathan Christie

16:00–18:00

Fast beam-based alignment of BPMs and quadrupole magnets for SPring-8-II**Speaker**

Mr Hirokazu Maesaka

16:00–18:00

Recent upgrades on longitudinal diagnostics at FLASH**Speakers**

Bernd Steffen, Jiri Kral

16:00–18:00

Performance results of the novel photoemission mask type X-ray Beam Position Monitor (PheM XBPM) for the ‘white’ undulator radiation.**Speaker**

Petr Ilinski

16:00–18:00

Bunch Length Monitoring using Synchrotron Radiation with Fast Photodiode and RF Frequency Domain Sampling**Speaker**

Cigdem Ozkan Loch

16:00–18:00

Results of HESR BPM Testing**Speaker**

Christian Boehme

16:00–18:00

Study of XBPM Diagnostic Parameters in the TPS Frontend**Speaker**

Chia-Mu Cheng

16:00–18:00

Performance Analysis of the RF Analog Frontend for Diamond-II Electron Beam Position Monitors**Speaker**

Hasan Malik

16:00–18:00

Innovative resistive X-ray beam position monitors based on Silicon Carbide free-standing membrane**Speaker**

Gabriele Trovato

16:00–18:00

A compact device for measuring and monitoring the energy of accelerated particle beams

Speaker

Zoltán Kormány

16:00–18:00

High-resolution longitudinal beam diagnostics with a Fast Faraday Cup at the UNILAC accelerator**Speaker**

Nimue Schmidt

16:00–18:00

Upgrade of Beam Position Diagnostics System at FELiChEM**Speaker**

Yongbin Leng

16:00–18:00

Development of BPM electronics for TRIUMF's BL4N**Speaker**

Holden Jones

16:00–18:00

Bunch Shape Measurements at the Los Alamos Neutron Science Center**Speaker**

Martin Kay

16:00–18:00

Experiments on a BSM test bench for CSNS-II linac upgrade**Speaker**

Xu Yang

16:00–18:00

Concepts for beam diagnostics based on planar pickups on a printed circuit board**Speaker**

Mr Bernhard Scheible

16:00–18:00

SOLEIL II BPMs development progress**Speaker**

Moussa El Ajjouri

16:00–18:00

Characterisation of a Dielectric Streaker Structure for Longitudinal Diagnostics at CLARA**Speaker**

Beatriz Higuera Gonzalez

16:00–18:00

Optimization and Upgrade of the BPM Electronics System for CSNS-II RCS**Speaker**

Ruiyang Qiu

16:00–18:00

The FERMI FEL2 Electro Optical Sampling Design and Operational Experience**Speaker**

Marco Veronese

16:00–18:00

Studies of an optimal geometry for arc beam position monitors of the FCC-ee

Speaker

Emily Howling

16:00–18:00

Beam Position Monitor Calibration Through Correlation with Accelerator Models During LIPAc Phase B+ Commissioning**Speaker**

Llorenc Macia

16:00–18:00

Functionalization of SiC diodes for soft X-ray optics**Speakers**

Gabriele Trovato, Massimo Camarda, Mr Niccolò La Rosa, Dr Simone Finizio

16:00–18:00

Development of Novel, Radiation-Hard, Ultra-Compact Active Beamstops with Integrated X-ray Sensors for Scattering Experiments on High-Brilliance Undulator Beamlines**Speakers**

Mr Gabriele Trovato, Massimo Camarda

16:00–18:00

Transverse Beam Position Monitoring and Polarimetry with a Compton Backscattering Polarimeter**Speaker**

Michael Switka

16:00–18:00

X-ray beam position monitor with pixelated GaAs detectors for high-power synchrotron radiation beams**Speaker**

Boris Podobedov

16:00–18:00

New Photon BPM setup using SiC devices in photoconductive mode**Speaker**

Matija Colja

16:00–18:00

Testing of SiC Blade X-ray Beam Position Monitors for Synchrotron Front Ends**Speaker**

Claire Houghton

18:00