

Session Program

30 August 2026 to 3 September 2026



IBIC2026 - 15th International Beam Instrumentation Conference

Wednesday Poster Session 3

Whistler Conference Centre, Rainbow Theatre
4010 Whistler Way, Whistler, BC

Wednesday 2 September

16:00

Wednesday Poster Session 3

Poster Session | **Location:** Whistler Conference Centre, Ballroom C

RFSoc-based direct RF sampling scheme with preliminary tests on CBPM & BAM pickups

Speaker

Ruizhe Gong

Location

Whistler Conference Centre, Ballroom C

Development and test of 3.3 GHz cavity BPMs for cSTART at the Swiss Light Source

Speaker

Boris Keil

Location

Whistler Conference Centre, Ballroom C

Evaluation of MTCA.4 based Libera Brilliance X BPM electronics at NSLS-II

Speaker

Manuel Cargnelutti

Location

Whistler Conference Centre, Ballroom C

Upgrade of the BPM and FOFB electronics for SSRF

Speaker

Longwei Lai

Location

Whistler Conference Centre, Ballroom C

Channel-level anomaly detection for beam position monitors at HEPS with multi-window autoencoder and physics validation

Speaker

Xiaoyu Liu

Location

Whistler Conference Centre, Ballroom C

Development of readout software for EPICS-based beam position measurement system of CSNS-II

Speaker

Zhihong Xu

Location

Whistler Conference Centre, Ballroom C

Canadian Light Source Machine Toolbox

Speaker

Tonia Batten

Location

Whistler Conference Centre, Ballroom C

Integrated beam diagnostics and simulation for online proton storage ring tuning at LANSCE**Speaker**

En-Chuan Huang

Location

Whistler Conference Centre, Ballroom C

Real-time prediction of multi-turn beam dynamics using ML surrogates for the proton storage ring at LANSCE**Speaker**

En-Chuan Huang

Location

Whistler Conference Centre, Ballroom C

A scalable phosphor-based beam profile monitoring platform at RAON**Speaker**

Geonhee Oh

Location

Whistler Conference Centre, Ballroom C

Development of an EPICS-based 8-channel 5 GSample/s waveform digitizer and 10 GSample/s function generator for RF System-On-Chip generation 3**Speaker**

David Madlener

Location

Whistler Conference Centre, Ballroom C

Precise trigger and bunch ID distribution for SHINE beam data synchronization**Speaker**

Yingbing Yan

Location

Whistler Conference Centre, Ballroom C

Usage of Red Pitaya single board DAQ system in COSY beam instrumentation**Speaker**

Christian Boehme

Location

Whistler Conference Centre, Ballroom C

Development of a new BPM system for the HL-LHC Inner Triplets**Speaker**

Chris Hulley

Location

Whistler Conference Centre, Ballroom C

Measurement of loaded and intrinsic Q-factors of overcoupled SRF cavities operated in SEL mode**Speaker**

Dr Sergey Kuzikov

Location

Whistler Conference Centre, Ballroom C

Development of a novel bunch-by-bunch beam size monitor using silicon strip sensors and the RFSoc architecture**Speaker**

Gaku Mitsuka

Location

Whistler Conference Centre, Ballroom C

Calibration of the simulation model based on 6-dimensional phase space reconstruction at the PAL-XFEL**Speaker**

Seongyeol Kim

Location

Whistler Conference Centre, Ballroom C

Development of a BPM system for the ISIS MEBT**Speaker**

Yusuf Fazlee

Location

Whistler Conference Centre, Ballroom C

Optimization of ALBA II BPM pickups**Speaker**

Laura Torino

Location

Whistler Conference Centre, Ballroom C

Synchrotron beam position monitors performance with Libera Hadron system in CNAO facility**Speaker**

Umberto Berzano

Location

Whistler Conference Centre, Ballroom C

Design of a high-performance BPM diagnostic system**Speaker**

Andrew Young

Location

Whistler Conference Centre, Ballroom C

FPGA machine learning for ESS beam diagnostics using Vitis AI DPU and hls4ml on Xilinx Versal board**Speaker**

Rok Hrovatin

Location

Whistler Conference Centre, Ballroom C

Optimized beam position monitor for the RFT-30 cyclotron**Speaker**

Dr Donghyun Kwak

Location

Whistler Conference Centre, Ballroom C

Non-invasive determination of scaling and skew factors for X-ray beam position monitors**Speaker**

Claire Houghton

Location

Whistler Conference Centre, Ballroom C

Recent beam characterization and performance baseline of the Siam Photon Source injector**Speaker**

Dr Thakonwat Chanwattana

Location

Whistler Conference Centre, Ballroom C

Cryogenic beam position monitors production for high luminosity LHC**Speaker**

Gerhard Schneider

Location

Whistler Conference Centre, Ballroom C

Phase calibration of signal cables for TOF measurement at KOMAC 100 MeV proton accelerator**Speaker**

Seok Ho Moon

Location

Whistler Conference Centre, Ballroom C

The new upgraded beam profile monitoring system of the CERN IRRAD proton irradiation facility for post LS3**Speaker**

Federico Ravotti

Location

Whistler Conference Centre, Ballroom C

RFSoc based stripline BPM readout hardware for use at SuperKEKB's injection points**Speaker**

Bela Urbschat

Location

Whistler Conference Centre, Ballroom C

Performance improvement of the XBPM2 in the TPS front end**Speaker**

Chia-Mu Cheng

Location

Whistler Conference Centre, Ballroom C

Bunch-by-bunch phase detection and filling pattern measurement via digital I/Q demodulation

Speaker

Chih-Hsien Huang

Location

Whistler Conference Centre, Ballroom C

Design and optimization of a non-interceptive capacitive pick-up monitor for TOF-based beam energy monitoring at the RFT-30 cyclotron**Speaker**

Dr Donghyun Kwak

Location

Whistler Conference Centre, Ballroom C

Operational experience with the RF-SoC for the HL-LHC BPM system**Speaker**

Chris Hulley

Location

Whistler Conference Centre, Ballroom C

Composable beam-instrumentation acquisition across EPICS and Tango**Speaker**

Igor Khokhriakov

Location

Whistler Conference Centre, Ballroom C

Analog front end for a ultra-short pulse acquisition system at the cSTART accelerator: circuit simulation**Speaker**

Marvin Noll

Location

Whistler Conference Centre, Ballroom C

Development of next-generation universal beam diagnostic electronics platforms at SSRF**Speaker**

Longwei Lai

Location

Whistler Conference Centre, Ballroom C

The importance of software in data acquisition: a Canadian Light Source example**Speaker**

Chelsea-Lea Randall

Location

Whistler Conference Centre, Ballroom C

Turn-by-turn tune analysis using adaptive BPM ensembles in the Fermilab Mu2e delivery ring**Speaker**

Derek Steinkamp

Location

Whistler Conference Centre, Ballroom C

Radiation hardness test of a silica aerogel cherenkov radiator for a muon beam profile monitor for the J-PARK muon g-2/EDM experiment

Speaker

Risa Nakagawa

Location

Whistler Conference Centre, Ballroom C

Scorpius prototype beam position monitor test stand characterization

Speaker

Carl Hlnes

Location

Whistler Conference Centre, Ballroom C

An FPGA-based BPM with simultaneous harmonic acquisition and dual RF/White Rabbit synchronization for IFMIF-DONES

Speaker

Janis DeWitt

Location

Whistler Conference Centre, Ballroom C

Experience with micro TCA based in-house built beam position monitor electronics at ARES, LUX, FLASH and the European X-FEL at DESY, Hamburg, Germany

Speaker

Bastian Lorbeer

Location

Whistler Conference Centre, Ballroom C

Sensitivity of button- and stripline beam position monitors to crabbing angle and trajectory tilt angle

Speaker

Mr Daniel Sittard

Location

Whistler Conference Centre, Ballroom C

Design optimization and RF characterization of the SPS-II storage ring BPM prototype

Speaker

Ms Porntip Sudmuang

Location

Whistler Conference Centre, Ballroom C

ALS-U beam diagnostics: beam position monitor (BPM) characterization and testing

Speaker

Jared De Chant

Location

Whistler Conference Centre, Ballroom C

Bpm button testing and qualification at the electron ion collider

Speaker

Lee Flader

Location

Whistler Conference Centre, Ballroom C

Performance testing of DBPM for the HALF storage ring**Speaker**

Yongbin Leng

Location

Whistler Conference Centre, Ballroom C

Laboratory closed-loop testing of the HALF beam current monitor based on high-fidelity beam signal simulator**Speaker**

Yongbin Leng

Location

Whistler Conference Centre, Ballroom C

Development of a universal broadband synchronous beam signal acquisition daughter board at the SSRF**Speaker**

Longwei Lai

Location

Whistler Conference Centre, Ballroom C

Development and performance evaluation of a new BPM data acquisition system for J-PARC MR**Speaker**

Kenichirou Satou

Location

Whistler Conference Centre, Ballroom C

Instrumentation and data acquisition for CBXFEL X-ray beam intensity monitoring**Speaker**

An Le

Location

Whistler Conference Centre, Ballroom C

Preliminary design of the digital signal processing scheme for the CSNS-II RCS BPM electronics**Speaker**

Chunjie Xie

Location

Whistler Conference Centre, Ballroom C

Unsupervised deep learning framework for longitudinal bunch-by-bunch signal diagnostics and status monitoring at HLS-II**Speaker**

Yongbin Leng

Location

Whistler Conference Centre, Ballroom C

18:00