



# IBIC2024 - 13th International Beam Instrumentation Conference

## Thursday, 12 September 2024

**THP: Thursday Poster Session: THP - China Hall 3 (16:00 - 17:30)**

| [id] title   | presenter                          | board |
|--|------------------------------------|-------|
| [95] Development of beam loss measurement electronics based on ZYNQ in RCS of CSNS-II  | XU, Zhihong                        |       |
| [231] Design and preliminary research of quadrupolar BPM for measuring space charge induced tune shift                                 | YUAN, Yue                          |       |
| [277] Methodology for identifying the centre of a solenoid magnet based on the beam dynamics   | KIM, Dong Hyuck                    |       |
| [82] Design choices for the Cryogenic Current Comparator for FAIR  | SIEBER, Thomas                     |       |
| [165] FPGA algorithm of beam diagnostic devices for fast protection system   | KWON, Jangwon                      |       |
| [99] The timeless timing system  | BATTEN, Tonia                      |       |
| [85] BPM displacement measurement and prediction at HLS II   | WANG, Chuhan                       |       |
| [126] Measurement of beam phase and energy using BPMs and FCTs at the MEBT section of CSNS H- LINAC                                    | LI, Fang<br>REHMAN, Muhammad Abdul |       |
| [175] The analysis of electron and ion movement inside the Faraday cup and error generation for finding the best biasing configuration | MASOUMZADEH, Amin                  |       |
| [263] Energy spectrum of an ICP-RF ion source using a spherical electrostatic energy analyzer  | EYDAN, Anna                        |       |
| [217] Calibration of beam current monitors at J-PARC accelerator facility  | SATOU, Kenichirou                  |       |
| [147] Development of bunch-by-bunch beam charge monitor for High Energy Photon Source  | LIU, Zhi                           |       |
| [31] Absolute charge measurements for ps-long bunches using a wall current monitor in linac-based free electron lasers                 | ISCHEBECK, Rasmus                  |       |
| [51] Characterization of the PREF slow extraction parameters   | LIU, Tong                          |       |
| [216] Development of a metamaterial-based cavity beam current monitor  | LU, Yuexin                         |       |
| [269] DCCT noise and beam lifetime measurement   | KUBE, Gero                         |       |
| [12] Minimizing SNS beam loss using machine learning and virtual accelerator   | ZHUKOV, Alexander                  |       |
| [250] Beam dynamics design of the superconducting section of a 100 mA superconducting linac  | YI, Man                            |       |
| [156] Research and development at the BESSY II booster beamline  | AHMELS, Pauline                    |       |
| [172] Transverse and longitudinal optical beam diagnostics for the BESSY II booster  | MARONGIU, Marco                    |       |
| [116] The bunch length monitor based on CSR in SXFEL   | HUA, Lianfa                        |       |
| [249] SIRIUS fast beam orbit interlock system  | CARDOSO, Fernando Henrique         |       |
| [227] Application of Fiber Beam Loss Monitoring System (FBLM) and Scintillator Beam Loss Monitoring System (SBLM) on HEPS              | YU, Lingda                         |       |

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| <b>[194] Design and first results of a cryogenic beam loss monitor installed at the LHC</b>  | EFFINGER, Ewald               |  |
| <b>[67] Study of gas bremsstrahlung for 3 GeV electron storage ring using FLUKA Monte Carlo code</b>   | MOHAMMADI ALAMOUTI, Samira    |  |
| <b>[58] Status and performance of LumiBelle2 in the 2024 beam operation of SuperKEKB</b>   | LI, Meng                      |  |
| <b>[161] Development of Analog circuit in BLM System at RAON</b>   | LEE, Sungjune                 |  |
| <b>[103] Laser polarimeter at VEPP-4M collider</b>   | KAMINSKIY, Viacheslav         |  |
| <b>[143] The study of the beam characteristics of the SKIF linear accelerator</b>  | MA, Xiaochao                  |  |
| <b>[59] Feasibility study of electron beam probe based longitudinal bunch shape monitor for high-intensity proton beam</b>                             | WANG, Heng                    |  |
| <b>[79] Recent progress and experimental results of electro-optic bunch arrival time monitor for SHINE</b>   | LIU, Xiaoqing                 |  |
| <b>[124] Correction of insert device errors of the SAPS storage ring</b>   | CHEN, Jianliang               |  |
| <b>[224] Measurement of the H- content in mixed beam from ion source</b>   | WANG, Baichuan                |  |
| <b>[208] Beam parameters studies of the CAEP THz FEL as injector for ERL</b>   | YANG, Xin                     |  |
| <b>[241] Betatron stopbands and coupling resonance driving terms characterization at VEPP-2000 collider</b>  | CHISTYAKOV, Danil             |  |
| <b>[200] Measurement of beam energy characteristics at the LHe-free Nb3Sn demo SRF e-linac</b>   | CHU, Yimeng                   |  |
| <b>[204] Measurement and optimization of the beam coupling impedance of a novel 3D-printed titanium alloy cage inside the thin-wall vacuum chamber</b> | ZHU, Guangyu                  |  |
| <b>[60] Low-jitter conversion from optical references to electrical radio frequency signals</b>  | MANSTEN, Erik                 |  |
| <b>[101] Advancements in beam arrival time measurement for SHINE*</b>  | ZHOU, Yimei                   |  |
| <b>[237] A longitudinal phase space measurement using the dechirper composed of corrugated metallic at PAL-XFEL</b>                                    | SUNG, Chang-Kyu               |  |
| <b>[94] Terahertz diagnoses bunch-to-bunch spacing for ultrafast electron bunch trains</b>   | XU, Yang                      |  |
| <b>[153] Measurement of the longitudinal beam size at the Novosibirsk FEL</b>  | BORIN, Vladislav              |  |
| <b>[88] A test bench for 324MHz RF deflectors used in bunch shape monitors for the upgrade of CSNS-II linac</b>  | LIU, Quanru<br>HUANG, Weiling |  |
| <b>[14] Longitudinal phase space measurement of operational H- beam at the SNS linac using a laser wire</b>  | LIU, Yun                      |  |
| <b>[188] longitudinal phase space reconstruction in a electron storage ring</b>  | WANG, Hongshuang              |  |
| <b>[140] Optical pulse picker system for bunch-by-bunch measurement in storage ring</b>  | MA, MingDong                  |  |
| <b>[107] Phase-temperature stability measurement of various RF coaxial cables</b>  | Dr MA, Xinpeng                |  |
| <b>[179] Recent progress in stabilized fiber link</b>  | WANG, Jinguo                  |  |
| <b>[20] Energy phase space measurement and reconstruction of injected fresh bunch in storage rings and its applications</b>                            | Dr WANG, Hongshuang           |  |
| <b>[135] Online beam phase and energy gain measurement through beam-cavity interaction</b>   | GONG, Lingyun                 |  |
| <b>[109] The synchronization and timing system updating at CTFEL facility</b>  | MA, Shuai                     |  |

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| <b>[87] Longitudinal bunch diagnostic in the Terahertz domain at ELBE using fast room temperature operable zero-biased Schottky diode THz Detectors</b> | Mr YADAV, Rahul                      |  |
| <b>[138] Design and experiment of an optimized eight-stripline beam energy and energy spread monitor</b>  | WANG, Qian                           |  |
| <b>[80] Autocorrelator for measuring the duration of the NovoFEL laser pulse</b>  | REVA, Stanislav                      |  |
| <b>[196] Bunch-by-bunch feedback system used as a diagnostic tool for multi-bunch beams in the DAFNE collider</b>                                       | QUARTULLO, Danilo                    |  |
| <b>[54] First results with a Base Band Tune (BBQ) measurement system at Solaris</b>   | WAWRZYNIAK, Adriana<br>GASIOR, Marek |  |
| <b>[74] The status of beam loss diagnostics system for the SKIF synchrotron light source</b>  | MESHKOV, Oleg                        |  |
| <b>[83] Design of beam loss measurement electronic at superconducting section in CSNS-II</b>  | ZENG, Lei                            |  |
| <b>[110] Development of a method for visualizing the magnetic axis of multipole magnets</b>   | REVA, Stanislav                      |  |
| <b>[199] Using transimpedance amplifiers for intensity measurements of long beam pulses</b>   | GASIOR, Marek                        |  |
| <b>[226] High dose pass-rate sealed ion chamber</b>   | Mr ZHANG, Zhiquan                    |  |
| <b>[236] Absolute beam current measurement for slow extracted beams at CERN's North Area facility</b>   | TAN, Jocelyn                         |  |
| <b>[261] Design and experimental testing of electronic flow measurement module in superconducting low-temperature module testing platform</b>           | WANG, zhiyu                          |  |
| <b>[264] A preliminary design of a Compton polarimeter at BEPC</b>  | SU, Mengyu                           |  |
| <b>[48] Beam commissioning of the rapid cycling synchrotron for the CSNS</b>  | HUANG, Ming-Yang                     |  |
| <b>[186] Wide range and high precision grid-cathode modulation of beam current for High Energy Photon Source electron gun</b>                           | LIU, Jingdong                        |  |
| <b>[37] Diamond detectors response to intense high-energy electron pulses</b>   | Dr GABRIELLI, Alice                  |  |
| <b>[271] New beam loss monitor ionisation chambers engineering</b>  | SCHNEIDER, Gerhard                   |  |
| <b>[150] Development status of the fiber length stabilizers for the laser arrival-time measurement</b>  | WU, Bowei                            |  |
| <b>[76] BLM system of Novosibirsk Free Electron Laser</b>   | MESHKOV, Oleg                        |  |
| <b>[114] The beam orbit reconstruction in the linac of CSNS</b>   | HAN, Yanliang                        |  |
| <b>[225] Beam loss measurement at AichiSR storage ring</b>  | FUJIMOTO, Masaki                     |  |
| <b>[205] Machine protection system for HIAF</b>   | WEI, Yuan                            |  |