

Contributed Talks at IBIC 2022

Overview and Commissioning

Thomas Hywel Pacey (STFC/DL/ASTeC) 'Development of a 6d Electron Beam Diagnostics Suite for Novel Acceleration Experiments at Clara-Febe'

Natalia Milas (ESS) 'Beam Tuning Studies in the ESS MEBT'

Beam Position Monitors

Nicoleta Baboi (DESY) 'Beam Position Monitoring of Multi-Bunch Electron Beams at the FLASH Free Electron Laser'

Hideki Aoyagi (JASRI/SPring-8) 'Pulse-by-Pulse Photon Beam Position Measurements at the SPring-8 Undulator Beamline'

Laurence Stant (DLS) 'Diamond-II Electron Beam Position Monitor Development'

Transverse Profile and Emittance Monitors

Alexandre Mariet (CERN) 'Tests and simulations on Carbon Nanotube yarns as a material for beam intercepting instruments in HiRadMat'

Daniel Levin (University of Michigan Ann Arbor) 'A High Performance Scintillator Ion Beam Monitoring System'

Aurélie Goldblatt (CERN) 'LINAC4 Laser Profile and Emittance Meter Commissioning'

Carlos Salgado (CLPU) 'Angular-Resolved Thomson Parabola Spectrometer for Laser-Driven Ion Accelerators'

Nazanin Samadi (PSI) 'An X-Ray Beam Property Analyzer Based on Dispersive Crystal Diffraction'

Beam Loss Monitors and Machine Protection

Eva Calvo Giraldo (CERN) 'The Diamond Beam Loss Monitoring System at CERN LHC and SPS'

Alan Stephen Fisher (SLAC) 'Commissioning Beam-Loss Monitors for the Superconducting Upgrade to LCLS'

Longitudinal Diagnostics and Synchronization

Arnold Kruschinski (HZB-Berlin) 'Advancing the Steady State Microbunching Experiment at the MLS with an Enhanced Detection Scheme'

Christophe Szwej (PhLAM/CERLA) 'Single-Shot Electro-Optic Detection of Bunch Shapes and THz Pulses: Fundamental Temporal Resolution Limitations and Cures Using the DEOS Strategy'

Beam Charge and Current Monitors

Federico Roncarolo (CERN) 'Fast Spill Monitor Studies for the SPS fixed Target Beams'

Pierluigi Casolaro (AEC-Bern) 'Time-Resolved Proton Beam Dosimetry for Ultra-High Dose-Rate Cancer Therapy (FLASH)'

Machine Parameter Measurements

Shiro Takano (Spring-8) 'Beam-Based Calibration of Sextupole Magnet Displacement with Betatron Tune Shift'

Joanna Malgorzata Wanczyk (CERN) 'Upgraded CMS Fast Beam Condition Monitor for LHC Run 3 Online Luminosity and Beam Induced Background Measurements'

Sichen Li (PSI) 'Novel Approaches for Forecasting of Beam Interruptions in Particle Accelerator'

Feedback Systems and Beam Stability

Jonas Breunlin (MAX IV) 'Beam Stability in the MAX IV 3 GeV Storage Ring'

Data Acquisition and Processing Platforms

Pedro Beata (PSI) 'RF Systems-on-Chip for Multibunch and Filling Pattern Feedback'