



# IPAC'23 - 14th International Particle Accelerator Conference

## Thursday, 11 May 2023

**Thursday Poster Session: THPA - Salone Adriatico (16:30 - 18:30)**

| [id] title   | presenter                                 | board |
|--|---|-------|
| [1282] Development progress of high-level applications for the HEPS  |   |       |
| [821] Thermal mechanical simulations of a new germanium detector developed in the European project LEAPS-INNOV for X-ray spectroscopy applications at synchrotron facilities | Dr QUISPE, Marcos                         |       |
| [1233] A Compton transmission polarimeter for DC and SRF electron photo-injectors  | BLUME, Greg                               |       |
| [2247] Study and simulation of cavity bunch length monitor based on monopole mode  | SONG, Chuangye                            |       |
| [711] Evaluation of low-loss alumina material for high-power RF windows  | THIELK, Seiji                             |       |
| [2095] Status of online model developments for BESSY II  | SCHNIZER, Pierre                          |       |
| [1859] High-rate radiation damage studies of materials with heavy ion beams  | BLOMBERG, Ben                             |       |
| [838] Compatibility of non-evaporable ZAO®-based getter pumps with particle-sensitive vacuum applications  | BUSETTO, Beatrice                         |       |
| [1264] Development of the digital low level RF system for the LANSCE proton storage ring   | GAUS, Henry                               |       |
| [1598] RF characterisation of laser treated copper surfaces for the mitigation of electron cloud in accelerators   | PEREZ FONTENLA, Ana Teresa                |       |
| [1669] Pulsed Magnets and Power Supplies for Injection & Extraction in the SOLEIL II Project   | ALEXANDRE, Patrick                        |       |
| [1179] Effect of oxygen and other impurities on copper coating conductivity at cryogenic temperatures  | HERSHCOVITCH, Ady                         |       |
| [645] Data acquisition and supervision systems for the HL-LHC quench protection system - part I the hardware   | PODZORNY, Tomasz                          |       |
| [1033] Impact of Vibration to HL-LHC Performance During the FPF Facility Construction  | GAMBA, Davide                             |       |
| [938] Measurement of the Photoelectron Yield from the Synchrotron Radiation for the NEG-coated Tubes   | HSIUNG, Gao-Yu                            |       |
| [1149] Research and development of a picosecond timing system  | GIL, Pilar                                |       |
| [1504] A new NEG coating setup with travelling thin solenoids for the SLS 2.0 complex vacuum chambers  | KIRCHGEORG, Natalia                       |       |
| [1497] SLS 2.0 crotch absorbers design   | ROSENBERG, Colette<br>KIRCHGEORG, Natalia |       |
| [2109] Evaluation of the in-situ photocathode handling for SRF photoinjector of SEALab   | KUEHN, Julius                             |       |
| [2408] NEG Coating for PETRA IV: Resistivity and Sticking Probability Measurements   | SIRVINSKAITE, Ruta                        |       |
| [1319] Development of new synchronized data system for J-PARC RCS  | SAHA, Pranab                              |       |

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|---|------------------------------|--|
| <b>[2635] SuperKEKB Personnel Protection System</b>   | MIMASHI, Toshihiro           |  |
| <b>[1553] Increasing equipment availability with CERN's enterprise asset management platform</b>  | FRIMAN, Per-Olof             |  |
| <b>[1617] Thin films for the mitigation of electron multipacting</b>  | SATTONNAY, Gaël              |  |
| <b>[1600] DYVACS (DYnamic VACuum Simulation) code: gas density profiles for dynamic conditions in particle accelerators - simulations for the LHC and the FCCee</b> | BILGEN, Suheyla              |  |
| <b>[839] Electromagnetic Design of 402 MHz Normal Conducting Coaxial Window for SNS Facility</b>  | KUTSAEV, Sergey              |  |
| <b>[864] Upgrade of the medium energy dump geometry for the SPIRAL2 single bunch selector</b>   | DI GIACOMO, Marco            |  |
| <b>[2335] Ion acceleration by laser-matter interaction: status and perspective with the upcoming I-LUCE facility at INFN-LNS</b>                                    | PETRINGA, Giada              |  |
| <b>[912] Study on beam orbit shift due to synchrotron radiation</b>   | WANG, Chuhan                 |  |
| <b>[1082] Non-Destructive Testing and Mechanical Measurements at the European Spallation Source</b>   | BIGNAMI, Andrea              |  |
| <b>[748] New pulse forming line and transmission cables for the CERN PS booster extraction and transfer kickers</b>   | DEL BARRIO MONTAÑÉS, Alicia  |  |
| <b>[551] Ultra-fast generator for impact ionization triggering</b>  | DEL BARRIO MONTAÑÉS, Alicia  |  |
| <b>[1409] Status of the SIS100 HV injection-/extraction</b>   | PETRYK, Marc                 |  |
| <b>[2255] Elettra 2.0: the vacuum system design for a new generation storage ring</b>   | NOVINEC, Luka<br>RUMIZ, Luca |  |
| <b>[2707] IC@MS - modular and containerized web-based alarm management system</b>   | ZYTNIAK, Lukasz              |  |
| <b>[882] The consolidation of the interlock systems for the CERN North Area</b>   | ROMERA, Iván                 |  |
| <b>[1515] SPS bunch-by-bunch phase measurement in the CERN SPS low level RF</b>   | BORNER, Robert               |  |
| <b>[1411] Tuner loop based on FPGA for Petra cavity at TPS booster ring</b>   | Dr CHANG, Fu-Yu              |  |
| <b>[2680] Evaluation of the first version of the new RFPI system dedicated to PIP-II project accelerator</b>  | CICHALEWSKI, Wojciech        |  |
| <b>[1552] Beam Measurements from Proton Testbeam At KAHVE-Lab</b>   | HALIS, Duygu                 |  |
| <b>[767] Calibration of LLRF Systems at ESS</b>   | BHATTACHARYYA, Anirban       |  |
| <b>[932] Digital LLRF feedbacks development, implementation and test at KEK LUCX facility</b>   | POPOV, Konstantin            |  |
| <b>[1417] A public data service for the Beam Interlock Systems at CERN - current status and future plans</b>  | GARNIER, Jean-Christophe     |  |
| <b>[2626] Improved Local Oscillator Rear Transition Module for 704.42 MHz LLRF Control System at ESS</b>  | RUTKOWSKI, Igor              |  |
| <b>[2712] First operational results of new real-time magnetic measurement systems for accelerator control</b>   | DI CAPUA, Vincenzo           |  |
| <b>[2131] Electron beam test to the multi-stripline-based non-destructive energy spread monitor for the PAL-XFEL</b>  | SUNG, Chang-Kyu              |  |
| <b>[1482] Data acquisition and archiving system for HEPs RF system based on Archiver Appliance</b>  | LI, Dongbing                 |  |

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| <b>[1530] The CERN SPS Low Level RF: embedded acquisition system for the Cavity-Controller and Beam-Control commissioning and diagnostics</b> | EGLI, Julien   |  |
| <b>[1523] Operation and New Capabilities of CERN's Digital LLRF Family for Injectors</b>  | ANGOLETTA, Maria Elena                                       |  |
| <b>[1391] Application of low-energy, tunable-delay ultrashort electron bunch pairs for irradiation experiments</b>                            | GRIGORYAN, Armen   |  |
| <b>[754] Cloud-based Neutron Transport Simulations and Variance Reduction with OpenMC</b>   | COLEMAN, Stephen   |  |
| <b>[1404] The Personnel Access System for FAIR</b>  | GASSMANN, Dennis<br>SALINAS, Matias                          |  |
| <b>[1624] Superconducting multipole triplet field measurements</b>  | ESPER, Alexandre   |  |
| <b>[1524] The Frascati DAFNE LINAC low level radio frequency status</b>   | PIERMARINI, Graziano<br>DI GIULIO, Claudio<br>BUONOMO, Bruno |  |
| <b>[883] Design considerations for CERN's second-generation Beam Interlock System</b>   | ROMERA, Iván   |  |
| <b>[770] Estimation of Hot S-parameters of Power Amplifiers at ESS</b>  | BHATTACHARYYA, Anirban                                       |  |
| <b>[1021] Development of a new digital LLRF system for high energy photon source</b>  | WANG, Qunyao   |  |
| <b>[1384] Room temperature vacuum chamber with cryogenic installations</b>  | AUMÜLLER, Simone   |  |
| <b>[1250] Synchronization and phase locking of resonant magnet power supplies for Mu2e experiment at Fermilab</b>                             | HENSLEY, Ryan  |  |
| <b>[2134] New injection controls environment for the Taiwan Light Source</b>  | CHEN, Jenny  |  |
| <b>[2231] Advancements of ELBE timing system upgrade</b>  | HROVATIN, Rok  |  |
| <b>[1784] The ThomX diagnostics in the machine commissioning phase</b>  | DELERUE, Nicolas   |  |
| <b>[625] Development of a new online model application for the high-energy beam transfer lines at GSI</b>                                     | HESSLER, Christoph   |  |
| <b>[1635] Beam loading compensation in the CERN SPS 200 MHz cavities. Measurements and comparison with expectations</b>                       | BAUDRENGHIEN, Philippe                                       |  |
| <b>[1781] Commissioning of the ThomX heterodyne synchronisation system</b>  | DELERUE, Nicolas   |  |
| <b>[2089] Initial experimental test of a modified ADRC algorithm for microphonics reduction</b>   | ELEJAGA, Ander<br>USHAKOV, Andriy<br>NEUMANN, Axel           |  |
| <b>[1664] The phase averaging scheme for phase reference line of CiADS SC Linac</b>   | DING, Xinghao  |  |
| <b>[1782] Optical pepper-pots: developing single-shot emittance diagnostics</b>   | WOLFENDEN, Joseph  |  |
| <b>[2462] Development of a combined element with an electric and magnetic fields for the JEDI experiment</b>                                  | Dr GRIGORYEV, Kirill   |  |
| <b>[2208] Upgrades of High Level Applications on Shanghai Soft X-ray FEL facility</b>   | LUO, Hang  |  |
| <b>[1290] Simulation studies of beam commissioning for the HEPS high-energy transfer line</b>   | JIAO, Yi   |  |
| <b>[2160] Recent Development of Cavity Simulator for ESS</b>  | GRZEGRZOLKA, Maciej  |  |
| <b>[1326] New controls for white circuits power supplies for the booster synchrotron of Taiwan Light Source</b>                               | WU, Chunyi   |  |
| <b>[1730] Design and production of the fast HESR-injection kicker magnets</b>   | VALDAU, Yury   |  |
| <b>[2319] DLLRF for the active harmonic RF system of ALBA-II</b>  | SOLANS, Pol  |  |

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| <b>[580] KEK LUCX facility new FPGA based LLRF phase and amplitude feedback performance report</b>   | POPOV, Konstantin      |  |
| <b>[2311] Stability analysis of double-harmonic cavity system in heavy beam loading with its feedback loops by a mathematical method based on Pedersen model</b> | SHEN, Yubing           |  |
| <b>[1962] Study of titanium coating of multipole injection kicker by magnetron sputtering method</b>   | CHAN, Che-Kai          |  |
| <b>[2166] The CERN SPS Low Level RF feedback with amplitude and frequency modulation</b>   | HAGMANN, Gregoire      |  |
| <b>[2213] Handling the functional features of accelerator components using ISO GPS situation features</b>  | NICQUEVERT, Bertrand   |  |
| <b>[1109] Activity inventories and decay heat generation of the LIEBE target at CERN</b>   | TOGOBICKIJ, Benjaminas |  |
| <b>[2084] Project progress of LLRF for the Superconducting RF system of Hefei Advanced Light Facility (HALF)</b>   | WU, Fangfang           |  |
| <b>[2217] ATLAS operations shift log software upgrade and implementation</b>   | BLOMBERG, Ben          |  |
| <b>[2088] Using TSN for accelerator control systems</b>  | PETERS, Andreas        |  |
| <b>[1048] Synchrotron radiation simulations for the development of a coherent synchrotron radiation bunch length monitor</b>                                     | WOLFENDEN, Joseph      |  |
| <b>[2216] Characterization and optimization of laser-generated THz beam for THz based streaking</b>  | XU, Chenran            |  |
| <b>[2143] BPM design and simulation based on Hefei advanced light source</b>   | WANGJIANYE, wangjianye |  |
| <b>[2254] Development of EPICS-based data acquisition system for beam loss monitor and sX-Map</b>  | IWASHITA, Yoshihisa    |  |
| <b>[1073] Study on beam position measurement based on diode-detection in HLS-II</b>  | LAN, Jinkai            |  |
| <b>[2343] Optical transition radiation measurements of a high intensity low energy hollow electron beam on electron beam test facility</b>                       | SEDLACEK, Ondrej       |  |
| <b>[2028] Overview of total ionizing dose levels in the Large Hadron Collider during 2022 restart</b>  | BILKO, Kacper          |  |
| <b>[1908] Development of a Modular X-ray Detector for Beamline Diagnostics at Los Alamos National Lab</b>  | FREEMAN, Patrick       |  |
| <b>[1157] FAIR SIS100 Accelerating RF System - Modeling and Analysis of the Coupled LLRF Control Loops</b>   | SCHMIDT, Janet         |  |
| <b>[1939] Integrated control system for space radiation environment test based on 100 MeV proton accelerator</b>   | SONG, Young-Gi         |  |
| <b>[1909] Study of the active disturbance rejection control for the low level radio frequency system at the Taiwan photon source</b>                             | Dr CHANG, Fu-Yu        |  |
| <b>[1133] MTCA.4-based clock and timing distribution for PETRA IV</b>  | Dr SCHLARB, Holger     |  |
| <b>[1819] Development of a new control interface for the electron gun pulser of TLS LINAC</b>  | LIAO, Jin-Kun          |  |
| <b>[1804] LANSCE accelerator machine protection/timing system interaction opportunities</b>  | LEFFLER, Heather       |  |
| <b>[1977] The potential contribution of a structured laser beam to accelerator alignment technology</b>  | GAYDE, Jean-Christophe |  |
| <b>[1426] Data acquisition and supervision for the HL-LHC quench protection system – Part II the software stack</b>  | GALILÉE, Marc-Antoine  |  |

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| [1975] Simulation study of an adaptive feedforward control for CSNS RCS LLRF system   | WU, Jian                    |  |
| [2422] Upgrades and developments related to stable ion beams injectors at INFN-LNL  | FAGOTTI, Enrico             |  |
| [2442] Studies of radiation background at the synchrotron light source DELTA  | KHAN, Shaukat               |  |
| [2360] Expansion of the $\mu$ TCA based direct sampling LLRF at MedAustron for hadron synchrotron applications                                    | WOLF, Markus                |  |
| [706] Cryogenic surfaces in a room temperature SIS18 ion catcher  | BOZYK, Lars                 |  |
| [1662] A new product lifecycle management platform for CERN's accelerator complex and beyond  | FRIMAN, Per-Olof            |  |
| [1978] Lattice-based simulations for the fast orbit feedback system of PETRA IV   | Dr SCHLARB, Holger          |  |
| [755] Los Alamos National Laboratory Fast Kicker Upgrade 2022   | GAUS, Henry                 |  |
| [2382] Advanced Techniques for Flight Path Alignment at LANSCE  | SVOBODA, Josef              |  |
| [2437] Design study of 972-MHz RF and clock generator board at J-PARC linac   | FUTATSUKAWA, Kenta          |  |
| [863] SAES experience in NEG coating of challenging vacuum chambers   | PORCELLI, Tommaso           |  |
| [550] Emittance Tomography with multiple wire scanners at RAON facility   | MOON, Seok Ho               |  |
| [2601] Foundations of Iterative Learning Control  | KOSCIELNIAK, Shane          |  |
| [639] Finite element analysis for NEG coated vacuum chamber based on ANSYS Workbench  | MA, Wenjing                 |  |
| [682] Phase reference line synchronization for LCLS-I and LCLS-II at SLAC   | HONG, Bo<br>RUCKMAN, Larry  |  |
| [1311] Development of low energy Superconducting Linac (SCL3) control system for RAON   | KIM, Yonghak                |  |
| [557] Operational experience of a low beam coupling impedance injection kicker magnet for the CERN SPS ring                                       | ZANNINI, Carlo              |  |
| [1630] Fabrication Processes for Low-Emittance Storage Ring Copper Vacuum Chambers  | SINKOVITS, Theo             |  |
| [561] Cryogenic oxygen deficiency hazard assessment at the National Synchrotron Radiation Research Center   | LIN, Yu-Chi                 |  |
| [1779] FELICIA – A probe to survey the RHIC magnet beampipe diameter for EIC beam screen insertion  | PTITSYN, Vadim              |  |
| [1633] Challenges for Fabricating Aluminium Alloy Insertion-Device Vacuum Chambers  | CANETTI, Marco              |  |
| [1672] Measurement and characterization of a toroidal tape wound nano-crystalline core for the 40kV Inductive adder development at CERN           | DEL BARRIO MONTAÑÉS, Alicia |  |
| [1930] The Upgrade of Pulsed Magnet Control System Using PXIe Devices at KEK LINAC  | WANG, Di                    |  |
| [1958] An advanced digital feedback control system design for the muon linear accelerator   | CICEK, Ersin                |  |
| [2344] PRAGUE (Proton Range Measurement Using Silicon Carbide): a detector to measure online the proton beam range with laser-driven proton beams | PETRINGA, Giada             |  |
| [2579] An online analysis platform for improving X-ray light source operations  | COOK, Nathan                |  |
| [2486] A UV Pump laser System for micro-UED at Cornell  | GORDON, Matthew             |  |

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| <b>[673] Developing a two-colour all-fibre balanced optical cross-correlator for sub-femtosecond synchronisation</b>                                   | CHRISTIE, Jonathan                  |  |
| <b>[648] Overview of the radiation levels in the CERN accelerator complex after LS2</b>  | PRELIPCEAN, Daniel                  |  |
| <b>[529] Initial application of machine learning for beam parameter optimization at the Hefei Light Source II</b>                                      | YU, Yongbo                          |  |
| <b>[554] Dose rate and accumulated dose around the Taiwan Photon Source in various scenarios</b>   | LIN, Yu-Chi                         |  |
| <b>[1322] Implementation and performance estimation of new archive system for the TLS control system</b>   | LIAO, Jin-Kun                       |  |
| <b>[2354] Study on the laser treatment of Nb and Nb<sub>3</sub>Sn thin films on copper substrate with a kW nanosecond fiber laser</b>                  | WANG, ChangLin                      |  |
| <b>[775] Development of a Tool for Cavity Failure Compensation in Superconducting Linacs: Progress and Comparative Study</b>                           | PLAÇAIS, Adrien                     |  |
| <b>[901] Eom-based bunch arrival monitor development at the Argonne wakefield accelerator facility</b>   | POWER, John                         |  |
| <b>[1007] New event based timing system for the taiwan light source</b>  | WU, Chunyi                          |  |
| <b>[1496] Reliability studies for CERN's new safe machine parameter system</b>   | UYTHOVEN, Jan<br>GANCARCIK, David   |  |
| <b>[1607] Online spatio-temporal couplings monitoring diagnostics for laser-plasma accelerator driver</b>  | KANE, Gueladio                      |  |
| <b>[871] A MTCA.4-based resonance controller for superconducting cavities</b>  | BELLANDI, Andrea                    |  |
| <b>[2289] Upgrade of the ALPI low and medium beta RF control system</b>  | BORTOLATO, Damiano                  |  |
| <b>[2033] Stabilised timing links for the CLARA test facility</b>  | HENDERSON, James                    |  |
| <b>[1125] Multipurpose Vacuum Accident Scenarios (MuVacAS) prototype for the IFMIF-DONES linear accelerator</b>  | SABOGAL, Anderson                   |  |
| <b>[1193] SLS 2.0 vacuum components design</b>   | GANTER, Romain                      |  |
| <b>[2048] Design and testing of the VSR blade tuner and actuators</b>  | WUNDERER, Nora                      |  |
| <b>[636] Study on the vacuum properties of laser-etched oxygen-free copper</b>   | ZHANG, Wenli                        |  |
| <b>[2398] Vacuum design of the Super-FRS at FAIR</b>   | KURICHIYANIL, Neeraj                |  |
| <b>[738] Design and experimental research of UHV flanges for the Hefei Advanced Light Facility</b>   | BIAN, Baoyuan<br>ZHANG, Wenli       |  |
| <b>[2643] The effect of small bends in thin non-evaporable getter coated tubes on the partial pressure ratio as a function of sticking probability</b> | MARSHALL, Eleni                     |  |
| <b>[2187] Multi-terawatt, sub-picosecond long-wave infrared laser for next-generation particle accelerators</b>  | POLYANSKIY, Mikhail                 |  |
| <b>[1967] Development of a Prototype Pulsed Power Supply using SiC-MOSFETs for a Fast Kicker System in KEK-PF</b>                                      | SHINOHARA, Satoshi                  |  |
| <b>[513] The SPES target ion source automated storage system</b>   | LILLI, Giordano                     |  |
| <b>[2586] Study of noise impact on AI-based ptychography for beam characterization</b>   | BIEDRON, Sandra                     |  |
| <b>[1972] New digital low-level rf controls based on the red pitaya STEMLab for the tIs linac system</b>   | CHENG, Yung-Sen<br>LIAO, Jin-Kun    |  |
| <b>[2717] Challenges for personnel safety systems during commissioning of ESS normal conducting linac</b>  | PAULIC, Denis<br>PETRUSHENKO, Artem |  |
| <b>[1815] Beam-based alignment of individual members of sextupole families</b>   | SAGAN, David                        |  |

**Thursday Poster Session: THPL - Sala Laguna (16:30 - 18:30)**

| [id] title  | presenter  | board |
|---|--|-------|
| [808] Operation improvements of the actual booster-injector for Elettra 2.0   | Dr KRECIC, Stefano   |       |
| [1213] Initial results of applying an autoencoder to detect anomalies in the air conditioning systems of the Brookhaven accelerator complex | SCHOEFFER, Vincent   |       |
| [684] Machine learning applications for orbit and optics correction at the Alternating Gradient Synchrotron                                 | SCHOEFFER, Vincent   |       |
| [1783] LANSCE's instrumentation and controls system modernization   | PIECK, Martin  |       |
| [857] Advancements in the scintillation fibre beam monitor for low-intensity ion beams at HIT   | HERMANN, Richard   |       |
| [727] Transverse phase space tomography using machine learning at the CLARA accelerator test facility                                       | Dr JOHNSON, Mark   |       |
| [1484] Virtual photon pulse characterisation using machine learning methods   | JAFARINIA, Farzad  |       |
| [1744] Non-destructive definition of emittance using the Compton back-scattering and AI machine learning                                    | DREBOT, Illya  |       |
| [1681] Machine learning for laser pulse shaping   | POLLARD, Amelia  |       |
| [1637] Identification of magnetic field errors in synchrotrons based on deep learning map networks  | CALIARI, Conrad  |       |
| [1168] Time resolved measurements of DARHT-II multi-pulse beam  | SZUSTKOWSKI, Sebastian   |       |
| [1555] Robust adaptive Bayesian optimization  | KUKLEV, Nikita   |       |
| [1182] Bayesian Optimization for SASE Tuning at the European XFEL   | XU, Chenran  |       |
| [2151] Review of CERN beam instrumentation for fixed target experiments   | RONCAROLO, Federico<br>GUERRERO, Ana<br>LEVENS, Thomas<br>TOPALOUDIS, Athanasios |       |
| [1427] Emittance tuning bumps for the main linac of CLIC 380 GeV  | PASTUSHENKO, Andrii  |       |
| [768] Capacitive BPM electromagnetic design optimisation  | BILANISHVILI, Shalva   |       |
| [1471] Towards Elettra 2.0: Beam diagnostics overview   | BASSANESE, Silvano   |       |
| [804] Elettra 2.0 eBPM: Complete System Overview  | Dr BRAJNIK, Gabriele   |       |
| [1537] Preclinical proton minibeam radiotherapy facility for small animal irradiation   | ROUSSETI, Aikaterini   |       |
| [802] Reconstruction of the transverse electron beam profile using an interferometric beam size monitor                                     | SHMIDT, Irma   |       |
| [2613] Diagnostics beamline development for ALS-U   | SUN, Changchun   |       |
| [2041] Beam loss monitors characterization for SPES proton beam line  | ALLEGRI, Maria Luisa<br>DE RUVO, Luca  |       |
| [2678] Design study of rebuncher system for KoBRA at RAON   | KWAK, Donghyun   |       |
| [1773] Improving the phase stability of the 201.25 MHz BPPM reference for the LANSCE 805 MHz LINAC  | BRAIDO, Anthony  |       |
| [2645] Influence of vibratory effects on the beam parameters of SuperKEKB   | BRUNETTI, Laurent  |       |
| [1333] Bunch-by-bunch transverse position measurement during injection  | HUANG, Chih-Hsien<br>LIAO, Jin-Kun   |       |



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| <b>[823] Improvement of the longitudinal phase space tomography at the J-PARC synchrotrons</b>  | OKITA, Hidefumi                        |  |
| <b>[850] Comparison between Run 2 SEU measurements and FLUKA simulations in the CERN LHC tunnel and shielded alcoves around IP1/5</b> | PRELIPCEAN, Daniel                     |  |
| <b>[1434] Dealing with thermionic emission in wire scanners based on secondary electron emission</b>                                  | BOUCARD, Manon<br>Dr SAPINSKI, Mariusz |  |
| <b>[801] An effective use of calibration measurements for the CNAO pickup</b>   | PARRAVICINI, Anna                      |  |
| <b>[1474] Imaging a high-power hollow electron beam non-invasively with a gas-jet-based beam profile monitor</b>                      | ZHANG, Hao                             |  |
| <b>[571] Development and commissioning of a new materials irradiation station at ATLAS</b>  | MUSTAPHA, Brahim                       |  |
| <b>[807] Design of an electron energy spectrometer and energy selector for laser-plasma driven beams at EPAC</b>                      | BAINBRIDGE, Alexander                  |  |
| <b>[2625] High-bandwidth Electro-Optic BPMs and an optical time-stretch technique</b>   | GIBSON, Stephen                        |  |
| <b>[2293] Characterisation and analysis of supersonic gas jets using interferometric measurement methods</b>                          | WEBBER-DATE, Alexander                 |  |
| <b>[2193] Bayesian optimization calibration of ionization profile monitor at the AGS complex</b>                                      | SCHOEFER, Vincent                      |  |
| <b>[1483] Design of a High-Power Linac for the industrial production of Isotopes</b>  | QUITMANN, Christoph                    |  |
| <b>[805] Design of a broadband modular permanent magnet electron energy spectrometer for FEBE</b>                                     | BAINBRIDGE, Alexander                  |  |
| <b>[1687] Demonstration of an electro-optic spectral interferometry longitudinal profile monitor at Clara</b>                         | WALSH, David                           |  |
| <b>[1399] Simulations of the compact transverse-deflecting system for ultra-short electron bunch diagnostic</b>                       | GLUKHOV, Sergei                        |  |
| <b>[1546] Button Type Beam Position Monitor Design for the Elettra 2.0 Storage Ring</b>   | BASSANESE, Silvano                     |  |
| <b>[1248] Long short-term memory networks for anomaly detection in storage ring power supplies</b>                                    | LOBACH, Ihar                           |  |
| <b>[2706] XH Detector integration with LImA</b>   | GANDOR, Michal                         |  |
| <b>[1393] About the damage mechanisms of thin targets exposed to high-power particle beams</b>  | Dr SAPINSKI, Mariusz                   |  |
| <b>[2671] Gradient descent optimization and resonance control of superconducting RF cavities</b>                                      |  |  |
| <b>[845] Longitudinal Electron Beam Characterisation at the MAX IV Linac</b>  | BLASKOVIC KRALJEVIC, Neven             |  |
| <b>[1249] Application for Anomaly Detection in the Storage Ring Power Supplies of APS-U</b>   | LOBACH, Ihar                           |  |
| <b>[1216] Design Study of button BPMs for the EIC Hadron Storage Ring</b>   | SANGROULA, Medani                      |  |
| <b>[794] Cryogenic Current Comparator (CCC): absolute beam current measurement in the order of nA</b>                                 | CRESCIMBENI, Lorenzo                   |  |
| <b>[1765] Exploring time-of-flight energy filtering possibilities for ultrafast electron single-pixel imaging</b>                     | DUNCAN, Cameron                        |  |
| <b>[1746] GNU Radio 4.0 for real-time signal-processing and feedback applications at FAIR</b>   | STEINHAGEN, Ralph                      |  |

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| <b>[1612] Raspberry Pi cameras as beam induced fluorescence monitors for low and high energy beams</b>   | ATEŞ, Adem  |  |
| <b>[2049] Beam diagnostics and instrumentation for MESA</b>  | DEHN, Marco   |  |
| <b>[1374] Status and upgrade of the visible light diagnostics port for energy spread measurements at KARA</b>  | PATIL, Meghana  |  |
| <b>[1521] Improvements on the LHC Interlock BPM system</b>   | BOZZOLAN, Michele   |  |
| <b>[1084] Optimization of EPURE LINAC performances and time characterization using electronic/photonic focal spot size correlation</b>                       | POULET, Frédéric  |  |
| <b>[1242] Beam Instrumentation Hardware Architecture for Upgrades at the BNL Collider-Accelerator Complex and the Future Electron Ion Collider</b>           | MICHNOFF, Robert  |  |
| <b>[1268] The Design of the Emittance Diagnostic for the Scorpius Accelerator</b>  | RAPHAELIAN, Mark  |  |
| <b>[1759] Recording two-beam LHC BPM signals to validate a technique for extracting individual beam positions</b>  | BETT, Douglas   |  |
| <b>[1738] Accurate prediction of mega-electron-volt electron beam properties from UED using machine learning</b>   | YANG, Xi  |  |
| <b>[1772] HL-LHC BPM electronics development as a case study for direct digitization and integrated processing techniques in accelerator instrumentation</b> | DEGL'INNOCENTI, Irene   |  |
| <b>[1636] Functional Architecture of SPES Safety System</b>  | DE RUVO, Luca<br>ALLEGRI, Maria Luisa<br>BENINI, Daniela<br>MARCATO, Davide |  |
| <b>[2505] Measurement of beam energy in the Fermilab's Linac taken at the transfer line</b>  | MWANIKI, Matilda<br>WESLEY, Michael   |  |
| <b>[1786] Automated Faraday cup readings at ATLAS</b>  | BLOMBERG, Ben   |  |
| <b>[860] Beam profile measurement using the highly-oriented pyrolytic graphite</b>   | KITAMURA, Ryo   |  |
| <b>[1735] Opendigitizer: digitizer modernisation using openCMW and GNU radio 4.0 for FAIR</b>  | STEINHAGEN, Ralph   |  |
| <b>[1208] Online fit of an analytical response matrix model for orbit correction and optical function measurement</b>  | SANTAMARIA GARCIA, Andrea   |  |
| <b>[1670] Upgrades to logging and ml analytics architecture at APS</b>   | KUKLEV, Nikita<br>LOBACH, Ihar  |  |
| <b>[1698] Design Status of the Electron-Ion Collider Beam Instrumentation</b>  | GASSNER, David  |  |
| <b>[1069] Fast kickers for bunch by bunch feedbacks at SLS 2.0 and ELETTRA</b>   | DEHLER, Micha   |  |
| <b>[1736] First two-bunch measurements using the electro-optical near-field monitor at KARA</b>  | PATIL, Meghana  |  |
| <b>[1777] Instrumentation and operation modes for the commissioning phase of the SEALab SRF photoinjector</b>  | ERGENLIK, Ezgi  |  |
| <b>[2175] Study on transverse beam size measurement using Cherenkov diffraction radiation in low-energy electron accelerator</b>                             | SONG, Woojin  |  |
| <b>[2212] Design and commissioning of a 200-kV photocathode electron gun</b>   | DONG, Zhichao   |  |
| <b>[2320] Automating beam dump failure detection using computer vision</b>   | BENCINI, Vittorio   |  |
| <b>[2065] Design of the Test Platform for High Current VHF Electron Gun</b>  |   |  |
| <b>[2126] Experimental and simulated dark current and beam loss studies for a SRF photo-injector of an ERL injector</b>                                      | NEUMANN, Axel<br>USHAKOV, Andriy  |  |
| <b>[608] Virtual diagnostics for longitudinal phase space imaging</b>  | LUNDQUIST, Johan  |  |

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| <b>[1047] A compact dielectric grating-based charged particle bunch length diagnostic device at ARES</b>                        | STACEY, Blae                                    |  |
| <b>[1852] Bead-pull analysis of HOM in X-band linearizer linac on CLARA, with update on HOM measurement system</b>              | JOSHI, Nirav                                    |  |
| <b>[1126] Cherenkov diffraction radiation dielectric button characterization via a slab-line</b>                                | PAKUZA, Collette<br>WENDT, Manfred              |  |
| <b>[1283] A consecutive double-slit emittance meter for high-brightness electron source</b>                                     | YANG, Renjun                                    |  |
| <b>[2032] Turn-by-turn beam size measurement based on spatial interferometer</b>  | ZHOU, Yimei                                     |  |
| <b>[2177] Study of NSLS-II storage ring sextupole BBA measurement</b>   | HIDAKA, Yoshiteru                               |  |
| <b>[1634] Three-stage simulation for the development of an ion-acoustic dose-deposition mapping system for LhARA</b>            | MAXOUTI, Maria                                  |  |
| <b>[1884] Commissioning of new photocathode RF gun for oscillator-type mid-infrared free-electron laser at Kyoto University</b> | ZEN, Heishun                                    |  |
| <b>[2302] Surrogate Model for Linear Accelerator: A fast Neural Network approximation of ThomX's simulator</b>                  | GOUTIERRE, Emmanuel                             |  |
| <b>[1714] Enhancing the sensitivity of the electro-optical far-field experiment for measuring CSR at KARA</b>                   | PATIL, Meghana                                  |  |
| <b>[628] Conception design for high-resolution reconstruction of fault occurrence</b>   | ZHOU, Zize                                      |  |
| <b>[2259] 4D Transverse Phase Space characterization of high brightness electron beams at PITZ</b>                              | AFTAB, Namra                                    |  |
| <b>[2110] R&amp;D of EOTD bunch length monitor for SXFEL</b>  | HUA, Lianfa                                     |  |
| <b>[2168] Resonant Cavity for Beam Current Diagnostics in Medical Accelerators</b>  | STULLE, Frank                                   |  |
| <b>[1897] Qualitative measurements of bunch length at CLARA using coherent transition radiation</b>                             | MATHISEN, Storm                                 |  |
| <b>[1292] The ionization profile monitors in the recycler ring</b>  | BABACAN, Betiay                                 |  |
| <b>[1761] Absolute charge measurements with pick-ups</b>  | KLAPROTH, Stephan                               |  |
| <b>[1102] Corrugated wakefield structures at SwissFEL</b>   | MALYZHENKOV, Alexander                          |  |
| <b>[1146] Calibration of the LHC Diamond beam loss monitors for LHC Run 3</b>   | MORALES VIGO, Sara                              |  |
| <b>[1329] TPS fast orbit feedback upgrade</b>   | CHENG, Yung-Sen<br>WU, Chunyi<br>CHIU, Pei-Chen |  |
| <b>[1790] Reconstructing 4D source momentum space via aperture scans</b>  | ZHANG, Charles                                  |  |
| <b>[1910] BAM system and machine stability at SXFEL</b>   | CAO, Shanshan                                   |  |
| <b>[1136] A low-latency feedback system for the control of horizontal betatron oscillations</b>                                 | SCOMPARIN, Luca                                 |  |
| <b>[2031] Absolute calibration of BSI monitors in the SPS North Area at CERN</b>  | Ms PARSONS FRANÇA, Luana                        |  |
| <b>[1960] A novel fibre optic monitor for VHEE UHDR beam monitoring: first tests at CLEAR</b>                                   | BATEMAN, Joseph                                 |  |
| <b>[1961] LLRF control upgrade at BESSY-II with mTCA.4 platforms</b>  | USHAKOV, Andriy                                 |  |
| <b>[1155] Update on the status of the uTCA Digitizer BPM design for SARAF Phase II</b>  | FERNÁNDEZ, Juan                                 |  |
| <b>[1185] Beam trajectory control with lattice-agnostic reinforcement learning</b>  | XU, Chenran                                     |  |

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| <b>[1836] Real-time Bayesian Optimization with Deep Kernel Learning and NN-Prior Mean for Accelerator Operations*</b>  | MARTINEZ MARIN, Jose  |  |
| <b>[2117] RF system on a chip: a compact controller for SRF cavity field and detuning control</b>  | USHAKOV, Andriy       |  |
| <b>[2008] Detector parametrisation for the front end test stand laserwire diagnostic using GEANT4</b>  | BOSCO, Alessio        |  |
| <b>[2553] Recovery and check of the switching relay in the BPMs in the J-PARC MR</b>   | TOYAMA, Takeshi       |  |
| <b>[2478] Beam loss monitoring with fixed and translating scintillation detectors along the Fermilab drift-tube linac</b>  | SHARANKOVA, Ralitsa   |  |
| <b>[2399] Optimizing the discovery of underlying nonlinear beam dynamics and moment evolution</b>  | POCHER, Liam          |  |
| <b>[824] Quantum efficiency and lifetime study for negative electron affinity GaAs nanopillar array photocathode</b>   | RAHMAN, Md Aziz Ar    |  |
| <b>[2551] Novel diagnostics for measuring 4D beam matrix</b>   | YAMPOLSKY, Nikolai    |  |
| <b>[2389] Photon beam stability and XBPMs at the MAX IV storage ring light source</b>  | BREUNLIN, Jonas       |  |
| <b>[679] Detailed Phase Space Reconstruction from Accelerator Beam Measurements Using Differentiable Simulations</b>   | ROUSSEL, Ryan         |  |
| <b>[2100] Direct RF sampling processor for cavity BPM system</b>   | CHEN, Jian            |  |
| <b>[1989] Optimisation of a gas jet-based beam profile monitor for high intensity electron beams</b>   | STRINGER, Oliver      |  |
| <b>[1631] Improvements in longitudinal phase space tomography at PITZ</b>  | AFTAB, Namra          |  |
| <b>[2415] Reinforcement learning-based beam orbit correction for the KOMAC linac</b>   | KIM, Dong-Hwan        |  |
| <b>[1817] Observation of beam emittance reduction due to gas sheet injection for beam profile measurement</b>  | YAMADA, Ippei         |  |
| <b>[2426] Commissioning of the low energy electron gun test stand at the University of Chicago</b>   | BOSSARD, Mary         |  |
| <b>[1140] Beam lifetime monitoring using beam loss monitors during LHC Run 3</b>   | MORALES VIGO, Sara    |  |
| <b>[1557] Machine learning for combined scalar and spectral longitudinal phase space reconstruction</b>  | KAISER, Jan           |  |
| <b>[1153] Status of the uTCA Digital LLRF integration for SARAF Phase II</b>   | FERNÁNDEZ, Juan       |  |
| <b>[2003] Towards fiber optics-guided synchrotron radiation-based longitudinal beam diagnostics at the KARA booster synchrotron</b>                                | MAIER, Sebastian      |  |
| <b>[1072] Tolerance analysis of a bunch arrival-time monitor design with rod-shaped pickups on a printed circuit board for the European XFEL and FELBE</b>         | Mr SCHEIBLE, Bernhard |  |
| <b>[1925] Feasibility Study of the Real-time Proton Flux Monitoring System for Space Radiation Environment Test By Using a 100 MeV Proton Irradiation Facility</b> | YUN, Sang-Pil         |  |
| <b>[715] Development of beam position monitor for korea 4GSR project</b>   | JANG, Si-Won          |  |
| <b>[1043] CERN's beam instrumentation R&amp;D study for FCC-ee</b>   | MAZZONI, Stefano      |  |
| <b>[1041] Development and testing of quantum gas jet beam profile scanner</b>  | ZHANG, Hao            |  |
| <b>[1103] Electron beam studies on a beam position monitor based on Cherenkov diffraction radiation</b>  | PAKUZA, Collette      |  |
| <b>[2577] Developments and characterization of a gas jet ionization imaging optical column</b>   | DENHAM, Paul          |  |

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| [2494] Commissioning of ESS normal-conducting linac instrumentation and implications for future hadron linacs                         | TARKESHIAN, Roxana<br>SHEA, Thomas              |  |
| [2552] Ultra fast reinforcement learning demonstrated at CERN AWAKE   | HIRLAENDER, Simon                               |  |
| [2501] Electron gun for sheet electron probe for beam tomography  | CUMMINGS, Mary Anne                             |  |
| [2333] Split-ring resonator experiments and data analysis at FLUTE  | HAERER, Bastian                                 |  |
| [2406] Operation the Accelerator Test Facility linac transport beamline by using Artificial Intelligence and Machine Learning Methods | FEDURIN, Mikhail                                |  |
| [2575] Diagnostic Suite for High Power Electron Beams   | POGUE, Nathaniel                                |  |
| [2607] Artificial Intelligence for improved facilities operation in the FNAL LINAC  | STRUBE, Jan                                     |  |
| [2411] Impact of dipole component change on quadrupole beam-based alignment accuracy for circular accelerators                        | HIDAKA, Yoshiteru                               |  |
| [2555] A Simulation Study on Residual Gas Chamber Based Photon Beam Position Monitor  | HAHN, Garam                                     |  |
| [2525] Recent progress at the UV to visible light-based diagnostic beam lines at MAX IV   | ANDERSSON, Ake                                  |  |
| [668] Beam size measurement developments at SLS   | OZKAN LOCH, Cigdem                              |  |
| [545] AI-ML developments for Heavy Ion Linac operations   | MUSTAPHA, Brahim                                |  |
| [653] Summary of the 3rd ICFA Beam Dynamics Mini-Workshop on Machine Learning Applications for Particle Accelerators                  | BIEDRON, Sandra                                 |  |
| [1325] TLS orbit feedback upgrade   | CHIU, Pei-Chen<br>CHENG, Yung-Sen<br>WU, Chunyi |  |
| [1246] Experimental design for beam motion measurements in the Crocker Nuclear Laboratory cyclotron at UC Davis                       | KNUDSON, Logan                                  |  |
| [849] Radiation levels produced by the operation of the Beam Gas Vertex monitor in the LHC tunnel at IR4                              | PRELIPCEAN, Daniel                              |  |
| [1017] Non-invasive bunch length reconstruction in linacs   | BETTONI, Simona                                 |  |
| [1220] Xopt: A simplified framework for optimization of accelerator problems using advanced algorithms                                | ROUSSEL, Ryan                                   |  |
| [2497] Rapid High Resolution Surface Microanalysis using Low Temperature Plasma   | DUDNIKOV, Vadim                                 |  |
| [2199] Optimization and development of the CBPM system for the SHINE  | CHEN, Jian                                      |  |
| [655] AGS booster beam-based main quadrupole transfer function measurements   | SCHOEFER, Vincent                               |  |

**Thursday Poster Session: THPM - Sala Mosaici 2 (16:30 - 18:30)**

| [id] title  | presenter                    | board |
|---|------------------------------|-------|
| [2848] Jacobs remote leak sealing   | FIFE, Gregory                |       |
| [1528] Laser powder bed fusion of pure niobium for particle accelerator applications                  | CANDELA, Silvia              |       |
| [2720] Phase-space reconstruction based on severe undersampling for ultrafast electron beam           | FAN, Kuanjun                 |       |
| [2719] Longitudinal phase space mapping of low energy electron beams using an rf deflector and a bend | CHEN, Qushan<br>LUO, Ruiying |       |

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| <b>[1561] Conceptual lattice design for vertical fixed field medical accelerators</b>  | VANWELDE, Marion  |  |
| <b>[1187] Design development and technological R&amp;D for niobium-cladded beam production targets</b>   | GRIESEMER, Tina   |  |
| <b>[2721] Characteristics of focused very high energy electron (VHEE) beams in radiotherapy</b>  | FAN, Danlei<br>FAN, Kuanjun                               |  |
| <b>[2195] Dual-scattering foil installation at CLEAR</b>   | ROBERTSON, Cameron  |  |
| <b>[861] CFD studies and experimental validation of the convective heat transfer coefficient in non-fully developed flows applied to conventional geometries used in particle accelerators</b> | COLLDEL RAM, Carles                                       |  |
| <b>[1567] Finite element study of AC losses in the superconducting coil of the NHa C400 cyclotron</b>  | DENIS, Louis  |  |
| <b>[1330] Impacts of strongly curved magnetic multipoles on compact synchrotron dynamics</b>   | NORMAN, Hannah  |  |
| <b>[582] Characteristic study of the pulse bump magnet in HEPS</b>   | PENG, Yuemei  |  |
| <b>[2334] Status of the field mapping system design for the C400 cyclotron</b>   | MAUNOURY, Laurent<br>Dr VELTEN, Philippe                  |  |
| <b>[2395] Additively manufactured tantalum cathode for FEBIAD type ion sources: production, geometric measurements, and high temperature test</b>  | BALLAN, Michele<br>REBESAN, Pietro                        |  |
| <b>[2484] Energy saving magnets for beam lines</b>   | ROSSI, Lucio<br>SORTI, Stefano                            |  |
| <b>[969] Alignment activities of storage ring at Taiwan Photon Source</b>  | LAI, Wei-Yang   |  |
| <b>[730] Heavy ion beam characterization for radiation effects testing at CERN using Monte Carlo simulations and experimental benchmarking</b>   | BILKO, Kacper   |  |
| <b>[661] Retrofit study of compressed air systems in NSRRC</b>   | Mr JAN, Wen-Shuo  |  |
| <b>[1659] Initial high electric field – vacuum arc breakdown test results for additively manufactured pure copper electrodes</b>   | RATKUS, Andris  |  |
| <b>[2637] Predictive capabilities in CFD simulations of additively manufactured extraction grid cooling channels for the DTT NBI system</b>  | FAVERO, Giacomo   |  |
| <b>[553] Respiratory protective equipment fit tests for researchers at the National Synchrotron Radiation Research Center</b>  | WEN, Po-Jiun  |  |
| <b>[1058] Design of the ESS DTL mechanical supports</b>  | BENCIVENGA, Tina<br>MINGIONI, Carlo<br>NICOLETTI, Edoardo |  |
| <b>[739] Towards multiple energy extraction operation in ion beam therapy</b>  | STEINBRÜGGE, René   |  |
| <b>[967] Prototype girder systems for Korea 4GSR</b>   | LEE, Hong-Gi  |  |
| <b>[1392] Democratization of Particles Therapy: Design of The Most Compact Multiroom Particle Therapy Facility</b>   | MARADIA, Vivek  |  |
| <b>[2417] Optimization of mechanical robustness in the booster injection bumpers</b>   | LACKNER, Friedrich  |  |
| <b>[1355] Conceptual design of the high-power electron beam irradiator using niobium-tin superconducting cavity</b>  | SAKAI, Hiroshi<br>Dr HONDA, Yosuke                        |  |
| <b>[2287] Focusing of high energy electron beam using crystal lenses for applications in radiotherapy - feasibility study</b>  | PATECKI, Marcin   |  |
| <b>[2386] Mechanical characterization of the BPMs brazing interface for Sirius storage ring</b>  | BAGNATO, Osmar  |  |

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| <b>[1273] Progress toward TURBO: a novel beam delivery system for charged particle therapy</b>   | YAP, Jacinta   |  |
| <b>[2591] Progress in Accelerator Research and Education at Korea University, Sejong</b>   | PARK, Chong Shik   |  |
| <b>[1556] Pure copper and stainless steel additive manufacturing of an IH-type linac structure</b>   | Dr HÄHNEL, Hendrik                                       |  |
| <b>[927] A compact and mobile system for breast irradiation in prone position</b>  | RONSIVALLE, Concetta                                     |  |
| <b>[968] Anodic bonding of silicon and glass for bent monochromator</b>  | LAI, Wei-Yang  |  |
| <b>[2365] Calibration assessment of the PSI proton therapy Gantry 2 scanning system after 10 years of operation</b>                              | ACTIS, Oxana   |  |
| <b>[2544] High efficiency, 1 MW, 1 MeV accelerator for environmental applications</b>  | SHUMAIL, Muhammed  |  |
| <b>[619] Effect of a silicon dioxide diffusion barrier layer on the migration of strontium implanted into SiC</b>                                | HESHAM ABDELBAĞI, Ali Abdelbagi                          |  |
| <b>[1378] Gantry design using achromatic scaling fixed-field magnets</b>   | TESSE, Robin   |  |
| <b>[1344] Electron beam qualification at ENEA Frascati particle accelerators laboratory</b>  | BAZZANO, Giulia  |  |
| <b>[1260] A novel large energy acceptance beamline for hadron therapy</b>  | STEINBERG, Adam  |  |
| <b>[784] First high quality DTL cavity additively manufactured from pure copper</b>  | MAYERHOFER, Michael                                      |  |
| <b>[2147] Development of reliable VHEE/FLASH passive dosimetry methods and procedures at CLEAR</b>   | RIEKER, Vilde<br>Mr WROE, Laurence<br>ROBERTSON, Cameron |  |
| <b>[1723] Design and test of C-band linac prototypes for electron flash radiotherapy</b>   | GIULIANO, Lucia  |  |
| <b>[2758] Measurement of the <math>^{80}\text{Se}(\gamma, n)</math> reaction with linearly polarized <math>\gamma</math> rays</b>                | YATES, Stephen   |  |
| <b>[2638] Progress on the conceptual design of the laser-hybrid accelerator for radiobiological applications (LhARA)</b>                         | SHIELDS, William   |  |
| <b>[1842] First correction to elastic scattering of electrons for microscopy</b>   | YANG, Xi   |  |
| <b>[1091] SWELL 1.3 GHz Cavity fabrication approach and machining</b>  | SCIBOR, Karol  |  |
| <b>[609] Establishment of the new particle therapy Research Center (PARTREC) at UMCG Groningen</b>   | GERBERSHAGEN, Alexander                                  |  |
| <b>[994] EUV-FEL light source for future lithography</b>   | Dr NAKAMURA, Norio                                       |  |
| <b>[2127] Laser powder bed fusion of CuCrZr for nuclear fusion acceleration components</b>   | BONESSO, Massimiliano                                    |  |
| <b>[2414] Design optimization of the water-cooled coil for the LEIR extraction septum</b>  | LACKNER, Friedrich                                       |  |
| <b>[631] Characterization of Sn100cv filler metal in UNS C10700 copper silver alloy vacuum soldering for Sirius vacuum chamber manufacturing</b> | BAGNATO, Osmar   |  |
| <b>[1816] Multi-megahertz induction cell driver for the next generation compact hadron therapy system</b>  | OKAMURA, Katsuya   |  |
| <b>[844] Beam-beam long range compensator mechanical demonstrator</b>  | ACCETTURA, Carlotta                                      |  |
| <b>[2518] Mu*star: A new paradigm for nuclear reactors</b>   | JOHNSON, Rolland   |  |
| <b>[2307] VHEE and ultra high dose rate radiotherapy studies in the CLEAR user facility</b>  | MALYZHENKOV, Alexander<br>KORYSKO, Pierre                |  |
| <b>[1747] SAFEST: a compact C-band linear accelerator for VHEE-FLASH radiotherapy</b>  |  |  |

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| <b>[2652] Magnet technology and design of superconducting magnets for heavy ion gantry for hadron therapy</b>   | CARLONI, Anna Giulia<br>GAUTHERON, Emma<br>FELCINI, Enrico<br>ROSSI, Lucio<br>FARINON, Stefania<br>SORTI, Stefano |  |
| <b>[827] S-Band Accelerating Cells Geometry RF Measurements Technique for Pre-Tuning and Smart Combination</b>  | GRIGORYAN, Armen  |  |
| <b>[644] Can additive manufactured materials meet ISO cleanroom standards?</b>  | ALLISON, Steven<br>HANLEY, Thomas   |  |
| <b>[2192] Progress of application and surface enhancement by Plasma Electrolytic Polishing as a new treatment for SRF substrates and accelerator components preparation</b> | PIRA, Cristian  |  |
| <b>[2374] Plasma cleaning of hydrocarbon and carbon contaminated surfaces of accelerator components</b>   | GIORDANO, Maria Carmen  |  |
| <b>[1527] Additive Manufacturing of 6 GHz seamless SRF copper cavities: printing, surface treatments and performance investigations</b>                                     | CANDELA, Valentina  |  |
| <b>[1060] Development and Tests of a Full-Size Additive Manufactured Radio Frequency Quadrupole Module</b>  | VEDANI, Maurizio<br>Dr TORIMS, Toms   |  |
| <b>[2296] Start-to-end tracking of therapeutic ion beams in BDSIM</b>   | SHIELDS, William  |  |
| <b>[1166] Innovations in the Next Generation Medical Accelerators for Therapy with Ion Beams</b>  | VRETENAR, Maurizio  |  |
| <b>[1454] Upgrade plans and new target stations for the HZB cyclotron</b>   | DENKER, Andrea  |  |
| <b>[2502] IRIS - the Italian research infrastructure on Applied Superconductivity for Particle Accelerators and Societal Applications</b>                                   | ROSSI, Lucio<br>BALCONI, Lorenzo<br>MAFFEZZOLI FELIS, Stefano<br>SORTI, Stefano                                   |  |
| <b>[2018] Beam properties beyond the therapeutic range at HIT</b>   | SCHOEMERS, Christian  |  |
| <b>[719] Compact Carbon Ion Therapy Gantry Design</b>   | BELTRAN, Chris  |  |
| <b>[1645] Evaluation of green laser source additive manufacturing technology for accelerator applications with ultra-high vacuum requirements</b>                           | RATKUS, Andris  |  |
| <b>[831] Beam delivery system for BNCT at Tokyo Institute of Technology</b>   | ARAMAKI, Mizuki   |  |
| <b>[1507] Realization of an Energy System-Informed Digital Twin of the KARA Accelerator at KIT in a Real-Time Simulation Environment: the ACCESS Project</b>                | MOHAMMAD ZADEH, Mahshid   |  |
| <b>[1059] Preparations for beam commissioning of the carbon RFQ at CERN</b>   | KOOPMANS, Marten  |  |
| <b>[1433] Design and Thermomechanical Calculation of High-heat-load Absorber in WALS Storage Ring</b>   | LI, Jian  |  |
| <b>[2338] Dose Simulation of Ultra-High Energy Electron Beams for Novel FLASH Radiation Therapy Applications</b>  | PROFT, Dennis   |  |
| <b>[610] An objective approach to determining the steel penetration capabilities of X-ray cargo inspection systems</b>  | BURKE, Jasmin   |  |
| <b>[1343] Development of low-dose proton irradiation test bench using beam window</b>   | SHIRAKATA, Masashi  |  |
| <b>[1446] Elongation of LED lighting lifetime under X-ray dominant radiation environment</b>  | FUKUI, Toru   |  |
| <b>[717] Measurements of the Variation of Extracted Beam Current of a Clinical Hitachi Proton and Carbon Synchrotrons and Implications for Particle Therapy</b>             | FURUTANI, Keith   |  |



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| <b>[2324] Swift Heavy Ions Induced Structural Modifications in Tungsten Carbide (WC) Thin Films</b>   | BIST, SHRISTI   |  |
| <b>[1029] Quantitative availability modelling for the MYRRHA accelerator driven system</b>  | UYTHOVEN, Jan   |  |
| <b>[2582] Interactive automated Bragg peak identification with 3D neutron scattering data</b>   | KILPATRICK, Matthew   |  |
| <b>[1923] Flash Radiotherapy with the CEPC(Circular Electron-Positron Collider) Synchrotron Radiation</b>   | WANG, Jike  |  |
| <b>[1703] Conceptual design of a compact synchrotron-based facility for cancer therapy and biomedical research with helium and proton beams</b>                           | VRETENAR, Maurizio  |  |
| <b>[2604] A new center for heavy ion research</b>   | JOHNSTONE, Carol<br>IZZO, Christopher   |  |
| <b>[2050] Production of short-lived neutron-rich beams for hadron therapy</b>   | TRAYKOV, Emil   |  |
| <b>[2685] Compact, mega-watt superconducting electron linear accelerators for environmental and industrial applications: projects and status</b>                          |   |  |
| <b>[2152] Beam instrumentation for real time FLASH dosimetry: experimental studies in the CLEAR facility</b>  | RIEKER, Vilde<br>ADLI, Erik<br>SJOBAK, Kyrre<br>Mr WROE, Laurence<br>ROBERTSON, Cameron |  |
| <b>[2171] Overview of FLASHlab@PITZ: the new R&amp;D platform for FLASH radiation therapy and radiation biology</b>   | LI, Xiangkun  |  |
| <b>[1874] Characterization of elliptical single-cell Nb thin-film cavity at low temperatures</b>  | ABDISATAROV, BEKTUR   |  |
| <b>[2190] An beam line setup for flash radiation therapy with focused electron beams at the Pitz facility at DESY in Zeuthen: basic concept and dosimetry simulations</b> | AMIRKHANYAN, Zohrab   |  |
| <b>[1879] Heavy Ion CW RFQ Test Stand Development</b>   | IZZO, Christopher   |  |
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| <b>[1927] Design and Development of Inverse Compton Scattering Hard X-Ray Source Based on Linear Accelerator of Polish Free Electron Laser (PolFEL)</b>                   | KWIATKOWSKI, Roch   |  |
| <b>[1950] Generation and NRF application of Flat-Laser Compton Scattering gamma-ray beam in UVSOR</b>   | ZEN, Heishun  |  |
| <b>[2610] Construction of and experiments with a compact plasma source</b>  | MANWANI, Pratik   |  |
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| <b>[2711] High energy electron shadowgraphy diagnosing magnetic field</b>   | LI, Haoqing   |  |
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| <b>[1574] Increased dose rate for a proton therapy eye treatment nozzle on a medical gantry system using a diamond degrader</b>   | GNACADJA, Eustache  |  |

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| <b>[2229] Comparison of measurements and simulation results of dose for the FLASH radiation therapy beamline at PITZ</b> | AMIRKHANYAN, Zohrab |  |
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