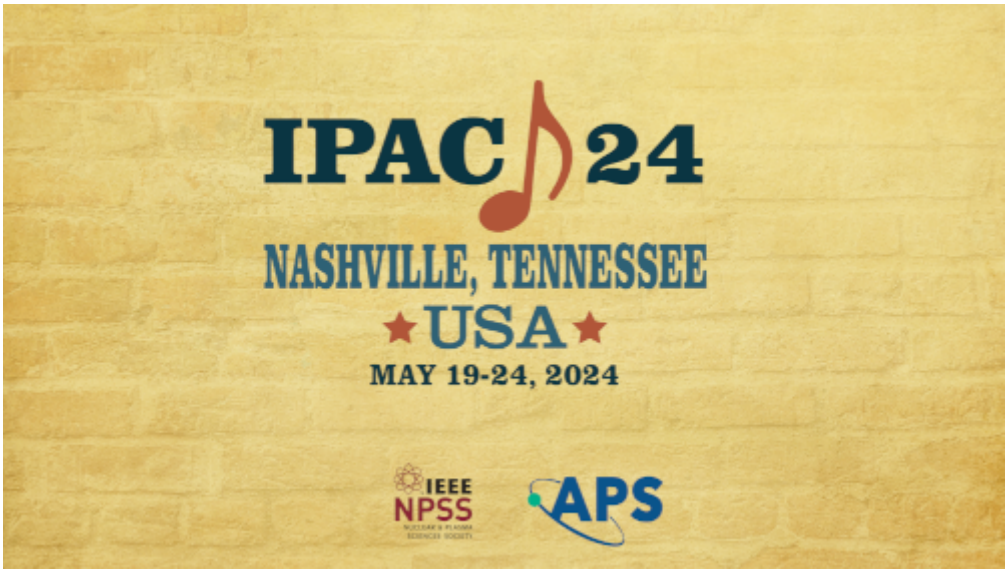
Session Program

19–24 May 2024



IPAC'24 - 15th International Particle Accelerator Conference

Thursday Poster Session

Music City Center
201 Rep. John Lewis Way S, Nashville, TN 37203, USA

Thursday 23 May

16:00

Thursday Poster Session: THPC

Poster Session | **Location:** MCC Exhibit Hall A, Country

Test of parallel beam-based alignment at NSLS-II

Speaker
Minghao Song

FFA@CEBAF beam transport error and tolerance simulation studies

Speaker
Donish Khan

Sorting strategies for the new superconducting magnets for the CERN HL-LHC

Speaker
Thomas Pugnat

Linear optics correction of an asymmetric storage ring lattice

Speaker
Xu Wu

Tail population studies in the CERN Proton Synchrotron

Speaker
Tirsi Prebibaj

Preparations of the Elettra booster for Elettra 2.0

Speaker
Stefano Krecic

Exploratory splitter bend system designs for FFA@CEBAF

Speaker
Donish Khan

Experimental measurements for extracting nonlinear invariants

Speaker
John Wieland

Broadband impedance induced heating proxy for operation at higher total current at SIRIUS

Speaker
Murilo Alves

Beam-based alignment of magnetic system in AREAL linear accelerator

Speaker
Dr Armen Grigoryan

IMPACT-T simulation for the latest coherent electron cooling pop experiment

Speaker
Kai Shih

Design of the H- beamline for the LANL RFQ test stand

Speaker
Dr Salvador Sosa Guitron

Study of the beam-beam interaction in an electron-positron collider with large Piwinski angle and crabbed waist

Speaker
Sangya Li

Quasi-isochronous conditions and high order terms of momentum compaction factor at the compact storage ring

Speaker
Matthias Fuchs

Emittance growth studies due to Crab Cavity induced amplitude noise in the SPS

Speaker
Andrea Fornara

Transmission characteristics of dark current in UED

Speaker
Jiapeng Li

EIC impedance and beam dynamics

Speaker
Alexei Blednykh

Advanced modeling and optimization of nuclear physics colliders

Speaker
Ji Qiang

Correction of nonlinear lattice with closed orbit modulation

Speaker
Xiaobiao Huang

Impedance reduction of the beam gas ionization monitors for the CERN SPS

Speaker
Hikmet Bursali

Simulation of the LANSCE PSR injection and extraction beamlines

Speaker
Dr Salvador Sosa

Image based reconstruction of the Danilov-Nagaitsev integrable potential

Speaker
John Wieland

Design of the low-emittance complex bend lattice

Speaker
Minghao Song

Impedance analysis of the septum in Hefei Advanced Light Facility

Speaker
Dr Wenbin Song

Optimizations for ultrafast electron diffraction with a cryogenic C-band gun

Speaker
Chad Pennington

Resonant matching section for CEBAF energy upgrade

Speaker
Bamunuvita Gamage

Status of the Spallation Neutron Source beam test facility and progress of beam dynamics studies

Speaker
Kiersten Ruisard

Experimental measurement of the second-order transit time factor in a single-cell RF cavity for relativistic electron beams

Speaker
Kai Shih

Direct measurements of RHIC BPM data at the IP using linear regression

Speaker
William Fung

Comparison of simulation and measurement of an in-vacuum undulator coupling impedance at NSLS-II

Speaker
Aamna Khan

Beam trajectory influence on dispersion and uniform beams at NASA Space Radiation Laboratory’s beamline

Speaker
Weijian Lin

Crossing transition in the EIC HSR with a resonance island jump scheme

Speaker
Kirsten Drees

Machine-assisted discovery of integrable symplectic mappings

Speaker
Timofey Zolkin

Impedance database for the Diamond-II booster

Speaker
Richard Fielder

Start-to-end simulations of the LAMP accelerator front-end

Speaker
Dr Salvador Sosa

SOLEIL II booster robustness and emittance exchange

Speaker
Patrick Schreiber

Beam based measurements of titanium coated ceramic chambers at NSLS-II

Speaker
Aamna Khan

Mini-beta optics commissioning at the European Synchrotron Radiation Facility Extremely Brilliant Source

Speaker
Nicola Carmignani

Space charge dominated momentum spread and compensation strategies in the post-linac section of Proton Improvement Plan-II at Fermilab

Speaker
Abhishek Pathak

Status of the ALBA-II lattice studies

Speaker
Michele Carlà

A wireless method for beam coupling impedance bench measurement of resonant structures

Speaker
Chiara Antuono

Assessment of the real part of the impedance of the LHC collimators with instability growth rate measurements

Speaker
Lorenzo Giacomel

Dynamics study of laser stripping injection of H- beam in the SNS

Speaker
Fanglei Lin

Use of two- and three-dimensional magnetic measurement data to refine the APS upgrade model

Speaker
Michael Borland

Updated analysis of beam halo measurements in LHC Run 2 and Run 3

Speaker
Milica Rakic

Optics corrections and performance improvements in the Bessy II Booster

Speaker
Meghan McAteer

Studies and mitigation of TMCI in FCC-ee

Speaker
Chiara Antuono

Impedance calculation for the hadron storage ring in the Electron-Ion Collider with ECHO3D

Speaker
Gang Wang

Full-cycle simulations of the Fermilab booster

Speaker
Jean-Francois Ostiguy

Status of beam-beam studies for the high-luminosity LHC

Speaker
Ilias Efthymiopoulos

Simulation of beam loading compensation with RF-Track

Speaker
Javier Olivares Herrador

Estimates of cross-talk effects for magnets of the Advanced Photon Source upgrade lattice

Speaker
Michael Borland

Beam-cavity interaction in the CERN PS 80 MHz RF systems

Speaker
Mathieu Taquet

Mitigation of beam coupling impedance for the wire scanners in the CERN Super Proton Synchrotron

Speaker
Christine Vollinger

Sextupole offset effects on the storage ring linear optics

Speaker
Jinhyuk Choi

Generation femtosecond proton beam for laser plasma acceleration

Speaker
Ji Qiang

Development of an ERL for coherent electron cooling at the Electron-Ion Collider

Speaker
Sadiq Setiniyaz

Interplay of space charge, emittance, and angular momentum in a flat-to-round transformer

Speaker
Liam Pocher

Adjoint computation of lattice sensitivities using particle simulation codes

Speaker
Tom Antonsen

Discussion of space charge effects of a beam train containing infinitely many bunches

Speaker
Boyuan Feng

Measured dynamic aperture and detuning of nonlinear integrable optics

Speaker
John Wieland

Bunch-by-bunch simulations of beam-beam driven particle losses in the LHC

Speaker
Philippe Belanger

Estimation of impedances and corresponding instabilities in Korea-4th generation storage ring

Speaker
Jimin Seok

Recent updates in the impedance characterization of the CERN PS Booster Finemet RF system

Speaker
Christine Vollinger

Impedance computation for large accelerator structures using a domain decomposition method

Speaker
Herbert De Gersem

GSI electron lens for space charge compensation

Speaker
Markus Kirk

Narrowband impedance studies in the HEPS storage ring

Speaker
Jintao Li

Proton beam dynamics in bare IOTA with intense space-charge

Speaker
Nilanjan Banerjee

Simulation of the simple feedback system for the mitigation of the cavity RF noise effects in EIC HSR

Speaker
Vasiliy Morozov

Investigation of transverse narrow-band impedance by coupled-bunch instability measurement in circular accelerator

Speaker
Yudong Liu

Combined wakefield and beam-beam effects in the EIC design

Speaker
Ji Qiang

Impedance model for the Fermilab Recycler ring

Speaker
Mary Duncan

Study of flat-to-round-to-flat transformation at high space charge

Speaker
Patrick O'Shea

Optics design of a compact helium synchrotron for advanced cancer therapy

Speaker
Tirsi Prebibaj

Minimizing space charge tune spread and increasing beam quality parameters with circular modes

Speaker
Onur Gilanliogullari

Validation of the slice model in beam-beam simulations

Speaker
Yi-Kai Kan

Horizontal splitter design for FFA@CEBAF energy upgrade: current status

Speaker
Ryan Bodenstein

Impact of insertion devices on SSRF-U lattice

Speaker
Liyuan Tan

Performance improvement studies of the fixed target beams along the CERN injector chain

Speaker
Tirsi Prebibaj

Pulsed correctors for the beam vertical stability during injection in CESR

Speaker
Vardan Khachatryan

Simulation of longitudinal phase space measurements for the RUEDI ultrafast electron diffraction beamline

Speaker
Julian McKenzie

Updates to the impedance database for the Diamond-II storage ring

Speaker
Richard Fielder

18:00

16:00

Thursday Poster Session: THPG

Poster Session | **Location:** MCC Exhibit Hall A, Bluegrass

Updates to Xopt for online accelerator optimization and control

Speaker
Ryan Roussel

Equipment protection system against unexpected abnormalities during high-intensity proton beam operation at J-PARC MR

Speaker
Masahito Yoshii

Radiation levels from a beam gas curtain instrument at the LHC at CERN

Speaker
Daniel Prelipcean

Development of a second-generation system for the reliable distribution of machine protection parameters

Speaker
Samuel Bolton

Investigation for the applicability of a Hall probe measurement in B-field control for synchrotron duty cycle optimization

Speaker
Thomas Margreiter

Improved beam loss accounting with fast data acquisition (DAQ) chassis

Speaker
Jayendrika Tiskumara

Implementation of EPU56 control system at the Taiwan Photon Source

Speaker
Jin-Kun Liao

FPGA design of FRIB chopper monitor system

Speaker
ZhiYong Li

Integration of LHC-type beam loss monitors into the machine protection system for the SIS100 synchrotron at FAIR

Speaker
Karim Laihem

Research on Monte Carlo model of radiation source in HLS storage ring

Speaker
Shaoxiang Dong

Machine learning for the LCLS-II injector online modeling and optimization

Speaker
Zihan Zhu

A Kick-and-Cancel injection scheme for Diamond-II

Speaker
Richard Fielder

Performance optimization design of photocathode injector based on multi-objective genetic algorithm

Speaker
Zheng Sun

Cost-effective asset management for accelerator control systems: design and implementation for the ALS-U controls system

Speaker
Jeong Han Lee

Radiation levels in the LHC tunnel and impact on electronics during the 2023 Pb ion run

Speaker
Samuel Niang

Time-of-flight beam loss monitor for the Advanced Photon Source Upgrade booster-to-storage-ring transport line

Speaker
Jeffrey Dooling

Coupling of codes for modeling high-energy-density conditions in fourth generation light sources

Speaker
Austin Dick

FRIB target thermal image processing for accurate temperature mapping

Speaker
Douglas McNanney

Improvements of longitudinal stability with LLRF optimization at SIRIUS

Speaker
David Daminelli

Testing aspects of the CERN beam interlock system prior to installation in the accelerator

Speaker
Antoine Colinet

3D visualization and analysis of neutron scattering data in the control room

Speaker
David Bruhwiler

Development progress of high-level applications for the HEPS

Speaker
Xiaohan Lu

Automation upgrade of the CXLS photoinjector

Speaker
Taryn Brown

Long range plasma experiment beam transport with UCLA MITHRA beam line

Speaker
Dr Monika Yadav

Assessment of the ratios of radiation sources and total electron loss at the injection section of the Taiwan Photon Source facility and total electron loss by using neutron measurements

Speaker
Yu-Chi Lin

The LCLS-II beam loss monitor readout system

Speaker
John Dusatko

The high-level software of the beam position limits detector system for the Advanced Photon Source upgrade storage ring

Speaker
Hairong Shang

Commissioning of the digital LLRF system at the KEK Photon Factory 2.5 GeV ring

Speaker
Daichi Naito

Status of the development of the new digital LLRF for ALBA synchrotron light facility

Speaker
Juan Fernández

Accelerator control system software at LANSCE: vision and strategy for improvement and modernization

Speaker
Eric Westbrook

First studies on error mitigation by interaction point fast feedback systems for FCC-ee

Speaker
Frank Zimmermann

Status of the transverse bunch-by-bunch feedback system at APS-U storage ring

Speaker
Weixing Cheng

Reducing background/noise in stretched wire alignment technique measurements

Speaker
Michael Bates

BPM feedback for LLRF energy and phase regulation in charge stripping beamlines

Speaker
Scott Cogan

Autofocusing accelerator beams

Speaker
Alexander Katrusiak

HPSim simulation of the highly bunched WNR beam at LANSCE

Speaker
En-Chuan Huang

High-reliability and high-performance machine protection system for a demanding electron linac

Speaker
Rok Hrovatin

Continuous position estimation for the full remote alignment system of the High Luminosity LHC upgrade

Speaker
Juergen Gutekunst

An online analysis platform to facilitate analysis at X-ray light source

Speaker
Nathan Cook

Control system of injection and extraction for synchrotron-based proton therapy facility

Speaker
Jin Tong

The pre-alignment strategy of Hefei Advanced Light Facility storage ring magnet unit

Speaker
Wei Wang

Generation of symmetrical optical caustic beams for precise alignment

Speaker
Martin Dusek

CXLS ionizing and laser radiation safety interlock systems

Speaker
Eric Everett

Experimental results on longitudinal RF beam phase feedback in the heavy-ion synchrotron SIS18

Speaker
Dieter Lens

Development of RF reference distribution system for Hefei Advanced Light Facility

Speaker
Shaoxiang Dong

A multi-variable approach to mid-ranging control for unified operation of fast and slow correctors in fast orbit feedback system

Speaker
Pavana Kallakuri

Canadian Light Source developments of the ALBA/CLS DLLRF system

Speaker
Denis Beauregard

Prototype design of a digital low-level RF system for S-band deflectors

Speaker
Jinfu Zhu

Lifetime studies of magnet protection systems for the Large Hadron Collider at CERN

Speaker
Dr David Carrillo

The onine radiation monitoring system for Hefei Advanced Light Facility

Speaker
Shaoxiang Dong

Prototype control system for the Low Energy Branch ion beamline

Speaker
Matevz Skobe

An approachable beam loss monitor configuration and operation tool for FRIB

Speaker
Douglas McNanney

ALS-U accelerator motion design and realization

Speaker
Joseph Ricks

Evaluation of top-up injection by a single nonlinear kicker in Taiwan Photon Source

Speaker
Hao-Wen Luo

Updating the RF system model in beam-cavity interactions under heavy beam loading effects

Speaker
Yubing Shen

Design, manufacturing and validation of the CLIQ units for the protection of superconducting magnets for the High-Luminosity LHC project at CERN

Speaker
Dr David Carrillo

TPS booster power supply performance experiment and monitoring program

Speaker
Wei-Yu Lin

Temporal profile shaping for a dispersive section using a multi-objective genetic algorithm

Speaker
Zheng Sun

Novel clock and trigger solutions with ultra-high precision delay to support time-resolved experiments at TPS

Speaker
Jin-Kun Liao

An accumulator ring lattice design for swap-out injection scheme

Speaker
Yujie Lu

Parallel quadrupole modulation for fast beam-based determination of magnet centers

Speaker
Xiaobiao Huang

Improvement of the LHC orbit feedback testing framework

Speaker
Andrea Calia

AGS Booster model calibration and digital-twin development

Speaker
Weijian Lin

ALS-U AR RF equipment protection system

Speaker
Najm Us Saqib

Machine protection system for TEX facility

Speaker
Giulia Latini

Summary of the operation of CSNS accelerator since its official opening in past five years

Speaker
Yue Yuan

The preliminary design and fabrication of LLRF system in proton CT

Speaker
Chengcheng Xiao

Design, manufacturing and validation of the new quench heater discharge power supplies for the protection of superconducting magnets for the High-Luminosity LHC Project at CERN

Speaker
Dr David Carrillo

RF and multipactor analysis for the CARIE RF photoinjector with a photocathode insert

Speaker
Haoran Xu

Design and commissioning of a high-level control system for a medical isochronous cyclotron

Speaker
Jean-Michel Bruneau

EPICS communication structure based on a SoC FPGA board

Speaker
ChongYue Li

Upgrade of LLRF control system for infrared free-electron laser

Speaker
Shaoxiang Dong

Tune feedback system in the Taiwan photon source

Speaker
Hao-Wen Luo

Design and magnetic field measurement of type c nonlinear magnet

Speaker
Wei Bo Hu

Energy selection of synchrotron booster for SLRI beam test facility

Speaker
Kritsada Kittimanapun

Modernization of DARHT axis-I debris blocker

Speaker
James Maslow

An automated quad scan based emittance measurement software

Speaker
Weijian Lin

Development of a non-linear injection kicker for the TPS storage ring

Speaker
Chin-Kang Yang

Early prediction of system failures at LANSCE

Speaker
Nikolai Yampolsky

Using a particle-in-cell model for accelerator control room applications

Speaker
Brandon Cathey

Real-time data acquisition with CompactPCI serial platform at PSI

Speaker
Radoslaw Rybaniec

18:00

16:00

Thursday Poster Session: THPR

Poster Session | **Location:** MCC Exhibit Hall A, Rock 'n Roll

Automated anomaly detection on European XFEL klystrons

Speaker
Antonin Sulc

Towards unlocking insights from logbooks using AI

Speaker
Antonin Sulc

Electronic brachytherapy replacement of iridium-192

Speaker
Ben Freemire

Investigating pulsed slow extraction schemes at the MedAustron synchrotron

Speaker
Elisabeth Renner

Reduction of radiotoxic lifetime of spent nuclear fuel to produce energy

Speaker
Rolland Johnson

Fabrication of 1.3 GHz Nb cavities at RadiaBeam

Speaker
Aurora Cecilia Araujo Martinez

The design of a rocket based RF electron accelerator for space applications

Speaker
Mr Christopher Roper

High fidelity numerical modelling and condition monitoring applied to septum magnets at CERN

Speaker
Krzysztof Kawa

Operation status of FRIB wedge systems and plan for power ramp up

Speaker
Xing Rao

Magnetic field study for air-cored HTS skeleton cyclotron

Speaker
Tsun Him Chong

Particle radiation in multilayer waveguides taking into account the frequency dependence of the electromagnetic parameters of the layers.

Speaker
Dr Armen Grigoryan

Design of a spin rotator for the ISIS Super-MuSR beamline

Speaker
Dr Iker Rodriguez

Improvements to 4-rod RFQs with additive manufacturing processes

Speaker
Julius-Stephan Storch

Design automation of pre-separator wedges for FRIB advanced rare isotope separator

Speaker
Xing Rao

Update on automated RF-conditioning utilizing machine learning

Speaker
Klaus Kümpel

Generation of bunched beam for SRF industrial cryomodules

Speaker
Roman Kostin

Research on ultra-high energy electron beams for FLASH radiation therapy at ELSA

Speaker
Dennis Proft

Selected beam measurements at PIP-II injector test facility

Speaker
Arun Saini

Medical irradiation studies at KIT accelerators

Speaker
Michael Nasse

RF conditioning of an IH-DTL cavity made using additive manufacturing

Speaker
Dr Hendrik Hähnel

Mechanical design of a QWR cavity for the new ISIS MEBT

Speaker
Jonathan Cawley

Design of cyclotron-based in-vacuum material irradiation beamline at TINT

Speaker
Kritsada Kittimanapun

Beam optics modelling of slow-extracted very high-energy heavy ions from the CERN Proton Synchrotron for radiation effects testing

Speaker
Eliott Johnson

FLASH proton therapy facility design with permanent magnet

Speaker
Dejan Trbojevic

Study of the performance and beam loss limitations during injection of high-intensity LHC proton beams

Speaker
Stefano Redaelli

Environmental sustainability in basic research: a perspective from HECAP+

Speaker
Dr Hannah Wakeling

Preparation for the conditioning of the MYRRHA CH-Cavities at IAP

Speaker
Peter Braun

Solid-state driven X-band linac for electron microscopy

Speaker
Ankur Dhar

The LOEWE-3 RFQ project

Speaker
Klaus Kümpel

Upgrade of the PS booster-to-ISOLDE beam transfer line to facilitate an increase in proton driver energy

Speaker
Matthew Fraser

Container stripping: enhanced classification of materials within cargo containers

Speaker
Jasmin Burke

Towards mitigation of challenges in development of high power ISOL targets

Speaker
Sundeep Ghosh

Electrical fire safety assessment of the synchrotron accelerator experimental station in NSRRC

Speaker
Po-Jiun Wen

Status of the Bonn Isochronous Cyclotron

Speaker
Dennis Sauerland

Development of a compact electron cyclotron resonance accelerator for industrial and security applications

Speaker
Mark Palmer

FLASHlab@PITZ beamline upgrade towards full functionality – status and plans

Speaker
Christopher Richard

Field shaping techniques in a spectrometer magnet in the presence of ferromagnetic shielding

Speaker
Vera Korchevnyuk

Focusing of high-energy electron beam using silicon crystals for application in radiotherapy

Speaker
Marta Monikowska

Optimizing the layout for a highly efficient multi-room particle therapy facility with a minimal footprint

Speaker
Vivek Maradia

Using octupoles to create uniform electron beam produced by irradiation accelerators

Speaker
Weihang Gu

A double multi-turn injection scheme for mixed $^{12}C^{6+}$ and $^{4}He^{2+}$ beams

Speaker
Elisabeth Renner

Towards the slow extraction of mixed He-2+ and C-6+ beams for online range verification

Speaker
Elisabeth Renner

Development of a multi-angle ultrahigh dose rate MV-level X-ray radiation system for FLASH radiotherapy clinical transformation

Speaker
An Li

Monte Carlo estimation of emittance growth during injection into the LANSCE PSR

Speaker
Martin Kay

Uranium spallation target chemistry for subcritical reactors

Speaker
Rolland Johnson

Development of a quality test platform for solid-state power amplifiers in NSRRC

Speaker
Zong-Kai Liu

The design of the proton-EDM injection line from BNL AGS booster

Speaker
Jonathan Lee

A new approach to solving the problem of an extended helical undulator

Speaker
Dr Armen Grigoryan

Effects of implantation temperature and annealing on structural evolution and migration of ruthenium in glassy carbon

Speaker
Tasabeeh Alabid Jafer

Optimizing non-linear kicker injection parameters using machine learning

Speaker
Meghan McAteer

High-power RF conditioning and 700 keV beam commissioning of the revised RFQ for the Frankfurt Neutron Source

Speaker
Dr Hendrik Hähnel

Status of ABC production line at Varex Imaging Corporation

Speaker
Dr Andrey Mishin

Study of stripping magnets for LACE at the SNS

Speaker
Timofey Gorlov

Simultaneous acceleration of multiple beams in novel LANSCE front end

Speaker
Yuri Batygin

Current status of MINIBEE: minibeam beamline for preclinical experiments on spatial fractionation in the FLASH regime

Speaker
Aikaterini Rousseti

Importance of quadrupole magnet fringing fields in low energy beam transport: example in the LIPAc 5 MeV D+ beamline

Speaker
Jibong Hyun

A pulsed Wien filter as a low-energy kicker

Speaker
Brahim Mustapha

European Laboratories for Advanced Sciences – an EC funded transnational access project for nuclear, high-energy physics and accelerator experiments and R&D support

Speaker
Ilias Efthymiopoulos

Revised error sensitivity study for the ESS proton linac

Speaker
Sofia Johannesson

Design of IH-DTL with PMQ focusing for medical RI production

Speaker
Hiromasa Yasuda

Information display board system to enhance safety management at the National Synchrotron Radiation Research Center

Speaker
Po-Jiun Wen

Investigating X-ray detector systems using Monte Carlo techniques

Speaker
Lauryn Eley

The X-ray imaging laboratory: a radiation test facility for validating industrial linacs

Speaker
Michael Jenkins

Design study of a compact IH-DTL-based injector for proton therapy facilities

Speaker
Yixing Lu

Dimensional and thermal design of the electrostatic chopper for the new ISIS MEBT

Speaker
Dr Iker Rodriguez

ELISA: a compact linear accelerator for societal applications

Speaker
Eleonora Pasino

SAFEST project, a compact C-band RF linac for VHEE FLASH radiotherapy

Speaker
Enrica Chiadroni

Conditioning of rod-style RFQ in support of LANSCE front-end upgrade

Speaker
Wesley Hall

Alternative gamma-ray source based on 2.2 MeV linear accelerator with field emission cathode

Speaker
Chunguang Jing

Ernest Courant traineeship in accelerator sciences

Speaker
Vladimir Litvinenko

Nozzle design optimization for proton FLASH therapy

Speaker
Georgios Kourkafas

Progress on pulsed electron beams for radiation effects characterization of electronics

Speaker
Atharva Kulkarni

Practical design and manufacturing of the new ISIS MEBT chopper

Speaker
Akanay Avaroglu

Recovery of Neptunium-236g from Photon and Proton-Irradiated Actinide Targets

Speaker
Jared Horkley

Thermal diffusivity and acoustic properties of Nb thin films studied by time-domain thermoreflectance

Speaker
Md Obidul Islam

The gamma activation measurements at Shanghai Laser Electron Gamma Source (SLEGS)

Speaker
Yuxuan Yang

Fabrication and tuning of a 325 MHz ion-injector prototype for particle therapy facility

Speaker
Yusen Guo

A large momentum acceptance gantry for light-weight proton therapy facility: its beam lattice, magnets design and clinical advantages

Speaker
Yicheng Liao

First implementation of RF-KO slow extraction at COSY

Speaker
Philipp Niedermayer

Simple estimate, detailed computer simulation and measurement of the transverse kick in the SLAC accelerating structure

Speaker
Dr Aliaksei Halavanau

The Laser-hybrid Accelerator for Radiobiological Applications (LhARA): an update towards the conceptual design

Speaker
William Shields

Review of known extraction kickers

Speaker
Bang Nguyen

Power ramp up and minimization of beam losses at the facility for Rare Isotope Beams

Speaker
Alexander Plastun

Commissioning of the IOTA proton injector

Speaker
Alexander Romanov

18:00

16:00

Thursday Poster Session: THPS

Poster Session | **Location:** MCC Exhibit Hall A, Blues

Mechanical design, structural requirements and optimization of the FCC e+e- interaction region components

Speaker
Francesco Fransesini

3D printed beam correctors

Speaker
Mario Del Franco

Statistical evaluation of mechanical properties of RRR300 niobium sheets

Speaker
Hiroaki Umezawa

Improving the uniformity of magnetron sputtering titanium film for nonlinear injection kicker

Speaker
Wei-Yang Lai

Injectors de-cabling project

Speaker
Fernando Dos Santos Pedrosa

SSRF superconducting wiggler coil voltage monitoring system and quench monitoring results

Speaker
Tianya Meng

Integration of FCC-ee RF systems targets and challenges

Speaker
Fani Valchkova-Georgieva

Thermal analysis of rotating single slice graphite target system for FRIB

Speaker
Mohit Patil

Topology optimization of a dipole magnet using normalized gaussian network

Speaker
Jie Li

Perspectives and recent achievements on additive manufacturing technologies for accelerators

Speaker
Prof. Toms Torims

STAR High-Energy Linac status: complete installation acceptance tests

Speaker
Luca Piersanti

Cryogenic permanent magnet undulator at high beam currents

Speaker
Jui-Che Huang

Design and fabrication of the automation system in TLS BL07A end station

Speaker
Wei-Yang Lai

Relationship between anisotropy and cross rolling process for high purity niobium sheets

Speaker
Hiroaki Umezawa

Channeling performance of bent crystals developed at CERN

Speaker
Philippe Schoofs

Radiation dose simulations for Jefferson Lab’s permanent magnet resiliency LDRD study

Speaker
Bamunuvita Gamage

LCLS II DC magnet power supplies – an overview

Speaker
Sudarshan Harave

Cold plate upgrade at the SNS

Speaker
Yugang Tan

Development of a cryogen free MgB2 high temperature superconducting undulator

Speaker
Osvaldo Chimalpopoca

CXFEL labs

Speaker
Mark Holl

Enhanced harmonic stability in magnet resonant power supplies via multi-harmonic closed-loop control and current feedforward

Speaker
Ran Li

Field characterization of axially and radially magnetized neodymium rings

Speaker
Tianzhe Xu

Implementation and experience with the pilot CMDS control system at TS2, in view of operating the ESS LINAC cryogenics

Speaker
Nuno Elias

Design and installation of the liquid nitrogen transfer line for TPS 15A beamline endstation

Speaker
Huang-Hsiu Tsai

Design and testing of high stability power supply for high energy photon source

Speaker
Yang Li

LANSCE electromagnetic chopper and beam dynamic simulation

Speaker
Sandra Biedron

High-voltage nanosecond power supply simulation

Speaker
Chunyu Xu

Development of linear power operational amplifier for TPS correction magnet power supply

Speaker
Bao-Sheng Wang

3D integration methodologies of the accelerators at CERN

Speaker
Fani Valchkova-Georgieva

Hardware Commissioning of the HL-LHC Inner Triplet String Facility at CERN: Individual System and Short Circuit Tests

Speaker
Samer Yammine

Support structures and their removal improve performance of additively manufactured RF cavities

Speaker
Michael Mayerhofer

EMI measurement for SXFEL klystron-modulator system

Speaker
Yongfang Liu

Impact of Delta undulator on SIRIUS beam dynamics

Speaker
Liu Lin

Pressure spike in the LBNF absorber core’s gun drilled cooling channel from an accident beam pulse

Speaker
Abhishek Deshpande

Modernizing of magnet power supplies at KARA and a transition to EPICS-based control system

Speaker
Akira Mochihashi

Thermal-fluid analysis and operation of a low power water-cooled tilted beam dump at Facility for Rare Isotope Beams

Speaker
Raul Quispe-Abad

A 50 kV pulse generator for fast kickers

Speaker
Alexander Smirnov

Design and instrumentation for permanent magnet samples exposed to a radiation environment

Speaker
Ryan Bodenstein

A new cryogenic permanent magnet undulator at BESSY-II: the CPMU-20

Speaker
Stefan Schäfer

New insertion devices for BRIGHT beamlines at the Australian Synchrotron

Speaker
Tessa Charles

Strain measurements of the Apple-X SABINA undulator with fiber Bragg grating

Speaker
Ilaria Balossino

Comparative study of decay heat calculations with FLUKA and MCNP/CINDER2008

Speaker
Yong Joong Lee

Assembly process and inspection results for W100

Speaker
Wei-Yang Lai

Diffusion bonding of tungsten-vanadium-zirconium using vacuum hot pressing for the development of a low decay heat cladding solution for tungsten spallation targets

Speaker
Yong Joong Lee

Study and simulation of cryogenic photonic-band-gap disk-loaded structure

Speaker
Yusen Guo

Measurement of ozone concentration at the BL-02A beamline hutch in the Taiwan photon source for ensuring personnel safety

Speaker
Po-Jiun Wen

Simulation study of nanosecond pulse power based on gyromagnetic nonlinear transmission line

Speaker
Wenbin Zhang

Proton beam power limits for stationary water-cooled tungsten target with different cladding materials

Speaker
Yong Joong Lee

PLAN analytics for enhanced understanding of RUN3 and LS3 activities at CERN

Speaker
Ayla Borglund

Design and characterization of adjustable-length pulse generator for beam kicker system

Speaker
Bang Nguyen

Real-time digital controller design based on SoC FPGA for general usage in J-PARC MR magnet power supplies

Speaker
Yulian Tan

Magnetic measurements for Halbach-type permanent quadrupoles using a single-stretched wire system

Speaker
Antonio Trigilio

Design of local control system for injection of fast pulse power supply for HEPS

Speaker
Peng Liu

Qualification of components for installation in LHC kicker magnets

Speaker
Miguel Diaz Zumel

Permanent magnet resiliency in CEBAF’s radiation environment: LDRD grant status and plans

Speaker
Ryan Bodenstein

Experimental design for validating the feasibility of in-situ plasma cleaning of normal conducting copper cavities

Speaker
Qianxu Xia

Numerical analysis on a modified air conditioning system of the experimental hall at TPS

Speaker
Wen Shuo Chan

Development of high-current correction magnet power supply for TPS facilities

Speaker
Bao-Sheng Wang

A study on the application of photoconductive switches for kicker excitation pulse power supply

Speaker
Feng-lei Shang

Research on key technologies for resonance injection of a compact X-ray light source

Speaker
Shaoxiang Dong

Multi-physics and multi-objective design optimization of quadrupole resonators under geometric uncertainties

Speaker
Piotr Putek

Precision current measurement and calibration system for the APS-U unipolar magnet power supplies

Speaker
Robert Keane

Study on the strength of large grain sliced niobium discs

Speaker
Hiroaki Umezawa

Ultrafast high-voltage kicker system hardware for ion clearing gaps

Speaker
Alexander Smirnov

Bead-pull measurement procedure for AREAL linear accelerator accelerating structure

Speaker
Dr Armen Grigoryan

Investigation of onset field variations in diversely fabricated samples through field emission scanning microscopy

Speaker
Frederic Braun

Design study of a compact superconducting undulator based on laser-structured HTS tapes

Speaker
Andreas Grau

A novel pulse compressor with dielectric assistance

Speaker
Boyuan Feng

Upgrade of the SPARC_LAB low level radiofrequency system

Speaker
Luca Piersanti

18:00