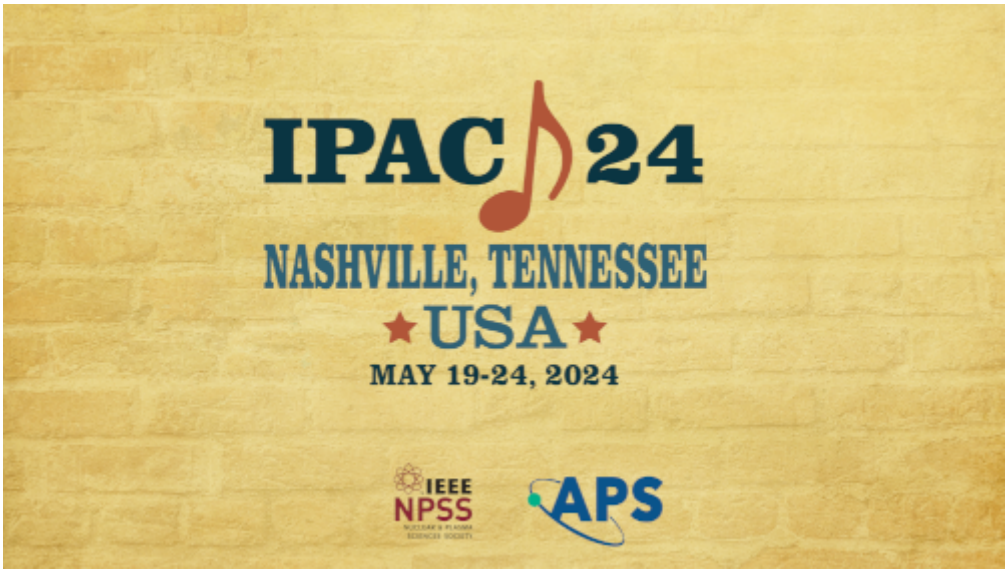
Session Program

19–24 May 2024



IPAC'24 - 15th International Particle Accelerator Conference

Tuesday Poster Session

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

Tuesday 21 May

16:00

Tuesday Poster Session: TUPC

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

Design of a two-cell C-band accelerator cavity with higher-order mode damping

Speaker
Haoran Xu

Study on beam injection and ramping efficiency for Korea-4GSR booster synchrotron

Speaker
Keonho Kim

Orbital alignment of electron beam in the CeC experiment

Speaker
Gang Wang

Four-dimensional phase space control with a strongly X-Y coupled beam for the three-dimensional spiral trajectory with a validation experiment with 0.12 m radius of compact storage ring

Speaker
Hiromi Iinuma

Optimizations and updates of the FCC-ee collimation system design

Speaker
Giacomo Broggi

Topologies for the kicker systems of the FCC-ee collider and injectors

Speaker
Miguel Diaz Zumel

Background mitigation concepts for Super-NaNu

Speaker
Florian Stummer

Flattening the field during injection in the Fermilab booster using dipole corrector magnets

Speaker
Kiyomi Seiya

Preliminary study of HALF lattice utilizing superconducting longitudinal gradient bend

Speaker
Chao Chen

A review of the 2023 antiproton physics run in the CERN antimatter factory

Speaker
Lajos Bojtar

Dynamic aperture of the RCS during bunch merges

Speaker
Daria Kuzovkova

Application and comparative analysis of the APES_CBI module in BEPC-II experimental results

Speaker
Siyuan Feng

A reformulated accelerator R&D program as envisioned by the 2023 Particle Physics Project Prioritization Panel

Speaker
Mark Palmer

A wide-open-waveguide cavity for the International Linear Collider crabbing system

Speaker
Binping Xiao

ATF2-3 hardware upgrade and new experimental results to maximize luminosity potential of linear colliders

Speaker
Angeles Faus-Golfe

Energy dependence of PS main unit harmonics

Speaker
Vittorio Ferrentino

HL-LHC series collimators: key technical requirements, crucial production challenges and risk mitigation plan

Speaker
Carla Piccinni

Future colliders using recycling energy-recovery linacs

Speaker
Vladimir Litvinenko

The magnetic error correction of SAPS storage ring based on ELEGANT script in AT code

Speaker
Jianliang Chen

Particle injection and acceleration in laser wakefield generated via propagation of two laser pulses

Speaker
Saumya Singh

Advancements in the development of beam dynamics software APES for CEPC

Speaker
Weibin Liu

Beam loss studies for the P42 beamline at the CERN SPS north area

Speaker
Luke Dyks

Improvements of the SPS slow extraction electrostatic septum

Speaker
Krzysztof Kawa

Secondary beam line efficiency studies at the CERN PS East Experimental Area

Speaker
Elisabetta Parozzi

Modern electron beam diagnostic techniques based on LOCO and feed forward artificial neural networks.

Speaker
Jacek Biernat

More general formula of minimum emittance

Speaker
Gyeongsu Jang

Optimization of cooling distribution of the EIC SHC cooler ERL

Speaker
Ningdong Wang

Various methods for computing dominant spin-orbit resonance strengths in storage rings

Speaker
Joseph Devlin

DONES-ConP1 project: consolidating the start of the IFMIF-DONES construction phase

Speaker
Antonio Moreno Cortes

Simulations of coherent electron cooling with varied beam parameters

Speaker
Jun Ma

Instability issue of rapid cycling synchrotron of CSNS-II

Speaker
Liangsheng Huang

Energy deposition and radiation level studies for the FCC-ee experimental insertions

Speaker
Alessandro Frasca

Single bunch tracking on the ten-pass ER@CEBAF energy recovery beamline

Speaker
Bamunuvita Gamage

Design optimization of a dual energy electron storage ring cooler for improved cooling performance

Speaker
Fanglei Lin

A preliminary feasibility study on multi-cavity cryomodule integration for the Electron Ion Collider energy recover linac cooler

Speaker
Sadiq Setiniyaz

Optimization of nanostructured plasmas for laser wakefield acceleration using a Bayesian algorithm

Speaker
Juan Rodríguez Pérez

Anodically bonded bent crystals: an advanced tool for channeling applications in particle beams steering

Speaker
Riccardo Negrello

The PSI positron production project

Speaker
Paolo Craievich

Enhancing beam current in compact cyclotrons for diverse applications

Speaker
Chong Shik Park

Characterisation of the optics of the TT24 and P42 beamlines in the CERN SPS north area

Speaker
Luke Dyks

Bmad based particle tracking simulation for slow resonant extraction

Speaker
Eiad Hamwi

Predicting the multi-turn channelling efficiency of a 7 mrad-bending silicon crystal in the Large Hadron Collider for TeV-range proton energies

Speaker
Kay Dewhurst

Estimates of the recombination rate for the strong hadron cooling system in the EIC

Speaker
Gang Wang

Impedance evaluation, mitigation, and measurement of ALS-U vacuum components.

Speaker
Dan Wang

High-current DC gun for low energy RHIC cooler project

Speaker
Xiaofeng Gu

Alternative solenoid compensation scheme for the FCC-ee interaction region

Speaker
Andrea Ciarma

Measurements of beam correlations induced via coupled resonance crossing in the CERN PSB

Speaker
Elleanor Lamb

Development of a fast pulsed magnet system for the MYRRHA collaboration

Speaker
Miguel Diaz Zumel

Hydrodynamic simulations of an argon-filled tapered plasma lens for optical matching at the ILC E+ source

Speaker
Manuel Formela

Beam optics modeling for the LANSCE proton storage ring

Speaker
Joshua Yoskowitz

Multi-bunch beam dynamics studies for the C3 main linac

Speaker
Wei Hou Tan

A crystal-based positron source for FCC-ee

Speaker
Riccardo Negrello

Summary of Jefferson Lab LDRD on FFA@CEBAF beam dynamics simulations

Speaker
Ryan Bodenstein

Overview of the new beam physics research at the IOTA/FAST facility

Speaker
Alexander Romanov

Calculating the channelling efficiency of bent silicon crystals using two particle simulation programs: SixTrack and Xsuite

Speaker
Kay Dewhurst

Optimisation of a permanent magnet multi-energy FFA arc for the CEBAF energy upgrade

Speaker
Stephen Brooks

Initial operational experience of an LHC injection kicker magnet upgraded for HL-LHC

Speaker
Miguel Diaz Zumel

A left-handed helical snake for the HSR

Speaker
Kiel Hock

SPS injection kicker system: 2023 operational experience and upgrade proposals for high-luminosity LHC

Speaker
Miguel Diaz Zumel

SoC based time-resolved scaler DAQ and amplifier-discriminator upgrade for laser spectroscopy

Speaker
Shriraj Kunjir

Beam correction for multi-pass arcs in FFA@CEBAF: status update

Speaker
Alexander Coxe

Applications of horizontal field damping wiggler in the diffraction limited storage ring

Speaker
Xinzhong Liu

Magnetic compression method for macro pulses of relativistic electron beam

Speaker
An Li

Production and validation of the RF cooling damper for the LHC injection kickers

Speaker
Miguel Diaz Zumel

Correction of horizontal partial snake resonances with pulsed skew quadrupoles at the Brookhaven AGS

Speaker
Vincent Schoefer

RF system upgrade for 1.3 MW operation of J-PARC main ring

Speaker
Kiyomi Seiya

Active control of the energy chirp of a relativistic electron beam at the Argonne Wakefield Accelerator

Speaker
Quinn Marksteiner

Progress in the design of the future circular collider FCC-ee interaction region

Speaker
Manuela Boscolo

Effects of dipole power converter ripple during empty-bucket channelling

Speaker
Matthew Fraser

A prototype storage ring for the precision frontier

Speaker
Paolo Lenisa

Adaptation of the Fermilab proton source to support new muon facilities

Speaker
Diktys Stratakis

Normalized uniformity-based common points layout optimization method for alignment installations

Speaker
Yimin Yang

Simulating a 6D cooling channel in BDSIM

Speaker
Rohan Kamath

High-current deuteron accelerator for neutron production

Speaker
Yong Jiang

Optics rematching between TT24 and P42 primary beam lines within the HI-ECN3 study project at CERN

Speaker
Matthew Fraser

Enhancing e+ sources for future colliders through conical converter targets

Speaker
Paolo Craievich

Novel positron beam generation based on Shanghai Laser Electron Gamma Source

Speaker
Sheng Jin

Radiation to electronics studies for CERN gamma factory-proof of principle experiment in SPS

Speaker
Samuel Niang

Future upgrades for GANIL

Speaker
Dr Hanna Franberg Delahaye

A high-power positron converter based on a recirculated liquid metal in-vacuum target

Speaker
Christopher Mayes

Characterization of radiation damages to positron source materials

Speaker
Andriy Ushakov

Advanced laser-driven betatron X-ray generation

Speaker
Matthias Fuchs

18:00

16:00

Tuesday Poster Session: TUPG

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

BESSY III overview and its bending sources

Speaker
Bettina Kuske

Beam-based girder alignment to reduce corrector strengths: conceptual simulations for PETRA IV

Speaker
Thorsten Hellert

Chromaticity and Landau damping effects in the SLS 2.0 transverse coupled bunch instability threshold

Speaker
Micha Dehler

Full simulations of the Diamond-II storage ring commissioning and possible improvements of procedures

Speaker
Hung-Chun Chao

Echo-enabled harmonic generation at the DELTA storage ring

Speaker
Shaukat Khan

Sub-picosecond long-wave infrared laser for advanced accelerators

Speaker
Igor Pogorelsky

Design of a single mode 3rd harmonic cavity for PETRA IV

Speaker
Herbert De Gersem

An electron beam modulation laser for steady-state microbunching

Speaker
Xinyi Lu

First injection and lattice commissioning of APS upgrade storage ring

Speaker
Vadim Sajaev

Summary of the commissioning of the active harmonic EU cavity

Speaker
Jesus Ocampo

Present status and future project of Synchrotron Light Sources at KEK

Speaker
Takashi Obina

Beam centroid studies at the Canadian Light Source

Speaker
Denis Beauregard

Comparison of BBA methods for commissioning of fourth generation light sources

Speaker
Masahito Hosaka

Investigations in turn-by-turn optics measurements at KARA

Speaker
Johannes Steinmann

High-quality dislocation-free diffraction grade HPHT diamond substrates for next-generation of synchrotron and FEL X-ray sources

Speaker
Alexei Kanareykin

Longitudinal beam profile monitoring in ILSF based on Smith-Purcell, transition, and diffraction radiation

Speaker
Reza Bazrafshan

Operation and developments at the ESRF-EBS light source

Speaker
Laurent Hardy

ALS-U accumulator ring raft and dipole installation

Speaker
Elizabeth Lee

Further investigations into the impacts of insertion devices on the Diamond-II lattice

Speaker
Hung-Chun Chao

Improve the injection with high energy for CAMD light source

Speaker
Yanshan Wang

Conceptual design of a future Australian light source

Speaker
Tessa Charles

Integrated Hall probe and stretched wire measurement system for an in-vacuum undulator

Speaker
Chin-Kang Yang

The online undulator magnetic field measurement system at SSRF

Speaker
Wei Zhang

Multiphysics design of a high heat-load superconducting undulator

Speaker
Yung-Chuan Chen

Single-shot meV-resolution hard X-ray spectrograph for CBXFEL diagnostics

Speaker
Mr Keshab Kauchha

Operational status of synchrotron SOLEIL

Speaker
Laurent Nadolski

Initial status report on BNL ATF AE131 experiment harmonic nonlinear inverse Compton scattering

Speaker
Yusuke Sakai

Collimator study for the Diamond-II storage ring

Speaker
Hung-Chun Chao

Status of undulators for the APS upgrade

Speaker
Yinghu Piao

Complex bend prototype beamline commissioning result

Speaker
Guimei Wang

Optical cavity status for SSMB at Tsinghua

Speaker
Xing Liu

Force-neutral adjustable phase undulator

Speaker
Joseph Xu

Numerical optimization of the Diamond-II storage ring optics

Speaker
Hung-Chun Chao

SOLEIL II Project

Speaker
Laurent Nadolski

APS upgrade booster commissioning

Speaker
Katherine Harkay

Preliminary lattice design for Australian Synchrotron 2.0

Speaker
Tessa Charles

New insertion device control system for the APS upgrade

Speaker
Wei Li

Magnetic characterization and phase error tuning of a 1.5 m long NbTi SCU at the Advanced Photon Source

Speaker
Matthew Kasa

Coherent radiation of a microbunched beam in a short undulator

Speaker
Gennady Stupakov

Dynamic aperture in a wiggler dominated ring electron cooler of the EIC

Speaker
Eiad Hamwi

Path to high current 500 mA at NSLS-II

Speaker
Guimei Wang

The status of the X-ray beam position monitor in the TPS front end

Speaker
Che-Kai Chan

Tunable laser pulses enable the generation of femtosecond electron beams with controllable lengths

Speaker
Jiapeng Li

Studies for single bunch and multi-bunch beam instabilities in the Diamond-II booster

Speaker
Richard Fielder

The low charge linac injector for the SAPS

Speaker
Yanliang Han

Single-electron experiments at the DELTA storage ring

Speaker
Shaukat Khan

Dismantle, assembly and installation plans for the ALBA II upgrade

Speaker
Ferran Fernandez

Light source top-up through direct generation of electron beam based on LPA technology

Speaker
Micha Dehler

Study of an upgraded lattice for Taiwan Photon Source

Speaker
Dr Nuan-Ya Huang

Superconducting undulator mock-up coils with 18 mm period length – design and first cryogenic tests

Speaker
Andreas Grau

Progress of physics studies and beam commissioning of the High Energy Photon Source

Speaker
Jintao Li

The laser system of very compact inverse Compton scattering γ-ray source

Speaker
Qili Tian

Candidate lattice design for SAPS storage ring

Speaker
Yi Jiao

Radio frequency design and analysis of quasi-waveguide multicell deflecting cavities for the production of picosecond x-ray pulses for Elettra 2.0

Speaker
Simone Di Mitri

Intra-beam scattering and Touschek scattering optimizations for the upgraded SSRF

Speaker
Xinzhong Liu

Status of the Advanced Light Source

Speaker
Thorsten Hellert

Magnetic field simulation of a planar superconducting undulator for the FEL demonstrator

Speaker
Yuko Shiroyanagi

TDR baseline lattice for SOLEIL II upgrade project

Speaker
Alexandre Loulergue

Status of beam commissioning at NanoTerasu

Speaker
Kota Ueshima

Design of an X-undulator

Speaker
Maofei Qian

Emittance blow-up with a magnetic shaker at different chromaticities

Speaker
Nicola Carmignani

Particle accumulator ring restart and readiness for Advanced Photon Source upgrade commissioning

Speaker
Katherine Harkay

Error analysis and commissioning simulations for the SSRF-U lattice

Speaker
Xu Wu

Networking activities of the I.FAST project in the high brightness accelerator for light sources

Speaker
Akira Mochihashi

ALBA II accelerator upgrade project status

Speaker
Jesus Ocampo

Advanced utilization of a single laser source for an inverse Compton scattering system

Speaker
Loic Amoudry

Design and construction progress of ALS-U

Speaker
Thorsten Hellert

Parallel beam-based alignment for the EBS storage ring

Speaker
Nicola Carmignani

18:00

16:00

Tuesday Poster Session: TUPR

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

Solder joint cryogenic fatigue of the RHIC 12x150A current leads and mitigation for future operation

Speaker
Frederic Micolon

The MESA high power 1.3 GHz CW solid state power amplifier systems

Speaker
Christoph Lorey

Identifying downtime sources in CEBAF SRF linac systems for improving its reliability

Speaker
Oleksandr Hryhorenko

Advancements in X-band technology at the TEX facility at INFN-LNF

Speaker
Luca Piersanti

Conceptual design of an 805 MHz cavity with beryllium windows and distributed coupling

Speaker
Dillon Merenich

Analysis of laser engineered surface structures' roughness and surface impedance

Speaker
Patrick Krkotic

Intra-undulator magnets for the SABINA THz FEL line: magnets design, manufacturing and measurements

Speaker
Lucia Sabbatini

Thermal and vibrational studies of a new germanium detector for X-ray spectroscopy applications at synchrotron facilities

Speaker
Dr Marcos Quispe

Preserving restoring and conditioning the RF cavities of the storage ring for the Advanced Photon Source upgrade

Speaker
Aditya Goel

Influence of deposition parameters on the microstructure and vacuum properties of NEG-coated vacuum chamber

Speaker
Zexin Cao

Development of a spill-structure manipulation cavity and first experiment with beam in SIS18

Speaker
Dieter Lens

Design of side-coupled proton accelerating structure

Speaker
Jianhao Tan

Design of dipole magnets for luminosity pair spectrometer subsystem at the detectors of electron ion collider

Speaker
Holger Witte

Novel injection locked coaxial magnetrons

Speaker
Milorad Popovic

Higher order modes characteristic of the capacitive type RF cavity at the Siam Photon Source

Speaker
Thakonwat Chanwattana

Design, fabrication and measurements of a quadrupole wiggler prototype

Speaker
Maofei Qian

Self-correction coil for RCS dipole in Electron Ion Collider

Speaker
Dr Vahid Ranjbar

Design of 500 MHz HOM-damped normal conducting RF cavity

Speaker
Jian Pang

Extended Jiles-Atherton hysteresis model to accurately predict fields in a Rapid Cycling Synchrotron dipole magnet

Speaker
Harshita Singh

Injection magnet system for Korea-4GSR facility

Speaker
Garam Hahn

Review of the complex baseband RF cavity model and its applications

Speaker
Stephen Jachim

RF design of a C-band spherical pulse compressor for linac of Super Tau-Charm Facility

Speaker
Zexin Cao

Modification of TPS arc-cell vacuum system for installation of EPU66

Speaker
Che-Kai Chan

Progress on the normal conducting magnets for the Electron-Ion Collider

Speaker
Holger Witte

Preliminary design of the normal conducting RF cavities for Electron-Ion Collider Hadron Storage Ring

Speaker
Binping Xiao

Dark current simulations in accelerating structures operating with short RF pulses

Speaker
Gaurab Rijal

Sextupole misalignment and defect identification and remediation in IOTA

Speaker
John Wieland

Network status for PAL-XFEL

Speaker
Soung Youl Baek

Studies of operation and control of CW magnetrons for HEP and ADS accelerators

Speaker
Grigory Kazakevich

Design of an X-band parallel-coupled accelerating structure for future linacs

Speaker
Zexin Cao

Wakefield analysis of the FCC-ee collimation system

Speaker
Mostafa Behtouei

An input port for a high-power magnetron

Speaker
Michael Neubauer

Preliminary results on X-Band structures for the Eupraxia@SPARC_LAB project

Speaker
David Alesini

Findings of simulation studies for the fast corrector magnets of PETRA IV

Speaker
Jan-Magnus Christmann

Vacuum acceptance test of vacuum chambers for early science FAIR

Speaker
Phe Suherman

Eight-piece quadrupole magnet allows precise pole tip positioning

Speaker
Mark Jaski

Solid state amplifier project at the Advanced Photon Source

Speaker
Douglas Horan

Exploring convective heat transfer coefficients in fully developed flows: a combined CFD analysis and experimental validation for common geometries in particle accelerators

Speaker
Dr Marcos Quispe

Geometry-based design of high power RF sources with the Neptune 3D EM-PIC code

Speaker
Simon Cooke

Development of a flux-concentrator-based 2-Tesla solenoid as a round lens for ultrafast microscopy

Speaker
Chunguang Jing

Models for power combining magnetrons in a magic tee

Speaker
Alexander Laut

Distributed coupling linac for efficient acceleration of high charge electron bunches

Speaker
Ankur Dhar

The mechanical behavior of the EIC beam screen during a magnet quench

Speaker
Marco Morrone

Test magnet for the EIC Rapid Cycling Synchrotron

Speaker
Holger Witte

Preliminary Design of a 500 MHz Normal-Conducting Cavity for Main Rings of Super Tau-Charm Facility

Speaker
Zexin Cao

Research on design of a novel permanent quadrupole magnet

Speaker
Shaoxiang Dong

Operation of TPS 300 kW solid-state amplifier

Speaker
Zong-Kai Liu

Development of test bench for 324 MHz superconducting cavity power couplers

Speaker
MengXu Fan

DYVACS code: calculation of gas density profiles for dynamic conditions in FCCee accelerator.

Speaker
Suheyla Bilgen

Magnetic design of non-linear kicker for ESRF-EBS

Speaker
Chamseddine Benabderrahmane

Modeling of single-beam and multiple-beam klystrons by the TESLA-family of large-signal codes

Speaker
Dr Igor Chernyavskiy

Exploring high gradient limit with cryogenic experiments at FREIA laboratory

Speaker
Mircea Coman

Research of plasma discharge process of magnetron sputtering coating for NEG film in the IAU vacuum chamber

Speaker
Pengcheng Wang

Simulation study of ion beam used to produce Mo-99

Speaker
Stephen Kahn

Stress-strain state analysis of the first-grade titanium foil of the accelerator output window in a static state

Speaker
Dr Armen Grigoryan

Electron stimulated desorption using a Compton electron beam on PHIL facility

Speaker
Suheyla Bilgen

A new design of the S-band acceleration unit

Speaker
Yusen Guo

Design of permanent dipole magnet in transport line for TPS

Speaker
Chin-Kang Yang

Investigation of reduced baking time on dynamic pressure in a Taiwan photon source front end system

Speaker
Che-Kai Chan

PSI's open-source FPGA DSP libraries

Speaker
Mr Benoit Stef

Development of prototype magnets for the ultralow emittance storage ring ALBA II

Speaker
Jordi Marcos

Adjoint approach to the design of vacuum RF sources

Speaker
Alexander Vlasov

Engineering studies on collimators for CERN’s experimental areas

Speaker
Laurence Nevay

Novel radiation durable composite materials

Speaker
Courtnay Brand

Transistor load imbalances within a 6:1 smart combining structure during an output short condition

Speaker
Marcus Lau

Studying the properties of particle accelerator cavity materials

Speaker
Emmanouil Trachanas

Setup of Goubau Line system for impedance-measurement of vacuum components at the NSRRC

Speaker
Che-Kai Chan

Progress on magnetron R&Ds for industrial particle accelerators

Speaker
Haipeng Wang

Transient finite-element simulations of fast-ramping muon-collider magnets

Speaker
Jan-Magnus Christmann

LANSCE 805 MHz klystron reliability analysis

Speaker
Jesus Valladares

Realizing high average power temporal laser shaping for photocathode emittance reduction

Speaker
Jack Hirschman

Magnetic measurement bench for a pulsed non-linear kicker based on vibrating wire

Speaker
Michele Carlà

Fundamental power couplers development at CSNS campus

Speaker
MengXu Fan

Advanced charge selector for stripped heavy ion beams

Speaker
Alexander Plastun

Design and test plans for a 1.3-GHz, 100-kW high-efficiency IOT amplifier

Speaker
Mohamed Othman

High temperature superconducting RF cavity

Speaker
Ankur Dhar

LHC abort gap monitor electronics upgrade

Speaker
Petr Pacner

High vacuum measurements at a linear inductive accelerator module

Speaker
Dr Ilija Draganic

A power amplifier based on rad-hard gallium nitride FETs for the 10 MHz cavities of the CERN proton synchrotron

Speaker
Giulia Gnemmi

New design techniques on matching couplers for travelling wave accelerating structures

Speaker
Zexin Cao

Waveguide system for an SRF cryomodule in KEK

Speaker
Prakash Joshi

RF power station stabilization techniques and measurements at LNF-INFN

Speaker
Luca Piersanti

18:00

16:00

Tuesday Poster Session: TUPS

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

The Data Platform: an independent system for management of heterogeneous, time-series data to enable data science applications

Speaker
Craig McChesney

An overview of the proton storage ring upgrade at LANSCE

Speaker
John Lewellen

PIP-II laser beam profile monitor laser system

Speaker
Parker Landon

Shower simulations for the CERN proton synchrotron internal dump and possible shielding options

Speaker
Samuel Niang

Preliminary results on the reinforcement learning-based control of the microbunching instability

Speaker
Luca Scomparin

Injection optimization via reinforcement learning: from simulation to real-world application

Speaker
Jan Hetzel

Magnetic field modelling and symplectic integration of magnetic fields on curved reference frames for improved synchrotron design: first steps

Speaker
Silke Van der Schueren

PulseOne, first FLASH-ready LINAC timing/trigger system

Speaker
Anze Jakos

The energy spread measurement for the CSNS linac

Speaker
Yanliang Han

Machine learning enabled model predictive control of the FRIB RFQ

Speaker
Jinyu Wan

Study of longitudinal effects during transition crossing of the EIC hadron storage ring

Speaker
Kirsten Drees

Vertical quadrupole electric field systematics and its mitigation in the proton-EDM ring

Speaker
Jonathan Lee

Estimation and control of accelerator beams by latent space tuning of generative models

Speaker
Alan Williams

Orbit response matrix correction based on exploration enhanced evolutionary algorithm

Speaker
Mr Jiazhen Tang

Upgrade specifications for the booster main magnet power supply

Speaker
Kiel Hock

An update on the transition crossing schemes for the EIC hadron storage ring

Speaker
Kirsten Drees

Breaking new ground in data-intensive science: first insights from the LIV.INNO center for doctoral training

Speaker
Prof. Carsten Welsch

Recent progress in laser wire-based H^- beam diagnostics at the SNS linac

Speaker
Yun Liu

Final cooling with thick wedges for a muon collider

Speaker
Diktys Stratakis

Efficient 6-dimensional phase space reconstructions from experimental measurements using generative machine learning

Speaker
Ryan Roussel

Schedule management for large scale projects: the example of HL-LHC at CERN

Speaker
Sarah Fleury

Status of helium ion beams commissioning at MedAustron ion therapy center

Speaker
Greta Guidoboni

Benchmarking power deposition from fast losses of heavy-ion beams at the onset of LHC Run 3

Speaker
Philippe Schoofs

Towards few-shot reinforcement learning in particle accelerator control

Speaker
Luca Scomparin

Enhancing plasma wakefield accelerator analysis through machine learning

Speaker
Dr Monika Yadav

A data science and machine learning platform supporting large particle accelerator control and diagnostics applications

Speaker
Craig McChesney

Commissioning of 160 kW beam power for the CSNS RCS

Speaker
Jintao Li

Dielectric wakefield accelerators: THz radiation for medical applications

Speaker
Dr Monika Yadav

Generative deep learning for 6D phase space diagnostics via physics-constrained neural networks, physics models, and adaptive feedback

Speaker
Alexander Scheinker

Data-driven model predictive control for automated optimization of injection into the SIS18 synchrotron

Speaker
Nico Madysa

Numerical simulation study on the mechanism of emittance growth and beam loss arising from magnetic field ripples in J-PARC MR

Speaker
Yoichi Sato

Progress on combining digital twins and machine learning-based control for accelerators at SLAC

Speaker
Auralee Edelen

Intensity reach in the CERN PSB with the high-current LINAC4 source

Speaker
Tirsi Prebibaj

A novel two stage collimation unit for Fermilab booster

Speaker
Chandra Bhat

Snake matching the EIC's hadron storage ring

Speaker
Eiad Hamwi

Linac_Gen: integrating machine learning and particle-in-cell methods for enhanced beam dynamics at Fermilab

Speaker
Abhishek Pathak

SRF cavity instability detection with machine learning at CEBAF

Speaker
Hal Ferguson

Overview of machine learning based beam size control during user operation at the Advanced Light Source

Speaker
Thorsten Hellert

Intensity reach of the barrier-bucket multi-turn transfer for fixed-target proton beam from PS to SPS

Speaker
Tirsi Prebibaj

Radiographic source prediction for linear induction accelerators using machine learning

Speaker
Jason Koglin

SIS18 Operation with U^{28+}

Speaker
Lars Bozyk

Optimization of a welding procedure for making critical aluminum welds on the LBNF absorber core block

Speaker
Abhishek Deshpande

White Rabbit based picosecond timing system for scientific facilities

Speaker
Juan Fernández

SRF cavity fault prediction using deep learning at Jefferson Lab

Speaker
Monibor Rahman

Characterization of meter-scale Bessel beams for plasma formation in a plasma wakefield accelerator

Speaker
Travis Nichols

Development status of laser arrival time measurement at SXFEL

Speaker
Bowei Wu

Final preparation of accelerated and polarised protons at COSY Jülich

Speaker
Jan Hetzel

Applications of machine learning in ultrafast laser control

Speaker
Sandra Biedron

Status coherent electron cooling experiment at RHIC

Speaker
Vladimir Litvinenko

The reinforcement learning for autonomous accelerators collaboration

Speaker
Luca Scomparin

Superconducting magnet string test for the SIS100 accelerator of FAIR

Speaker
Patricia Aguar Bartolome

Upgrade and expansion options for the LANSCE user facility complex

Speaker
Shea Mosby

ROCK-IT – a demonstrator for automation and remote-access to synchrotron beamlines

Speaker
Christina Widmann

Concluding the operation and development of COSY

Speaker
Jan Hetzel

HL-LHC magnet production: building a complex planning to identify bottlenecks

Speaker
Sarah Fleury

Slow extraction of a dual-isotope beam from SIS18

Speaker
David Ondreka

Crystal collimation for the HL-LHC upgrade using MERLIN++ accelerator physics library

Speaker
Raiza Babu

LSTMs for anomaly detection in the magnet power supply temperatures of APS-U

Speaker
Ihar Lobach

Development of high-power electron gun and collector for the new antiproton decelerator electron cooler

Speaker
Ghanshyambhai Khatri

Analysis of neutron spectra of candidate materials for potential moderator locations in the NEAR station at the CERN/n_TOF facility

Speaker
Gediminas Stankunas

Improved modelling and characterization of the LANSCE PSR stripper foils

Speaker
Anna Alexander

Update and improvement planning at the Los Alamos Neutron Science Center (LANSCE)

Speaker
Bruce Carlsten

Progress towards the completion of the proton power upgrade project

Speaker
Mark Champion

Multiphysics simulations of thermal shock testing of nanofibrous high power targets

Speaker
William Asztalos

Future directions for RF buncher at LANSCE proton storage ring

Speaker
John Lyles

Longitudinal phase space measurements at MedAustron

Speaker
Elisabeth Renner

Measurements of hysteretic effects and eddy currents on a FeCo magnet for the design of a novel ion gantry

Speaker
Antonio Trigilio

ML-enhanced commissioning of the APS-U accelerator complex

Speaker
Nikita Kuklev

Impact of beam screen eddy currents on transition crossing in the EIC HSR

Speaker
Kirsten Drees

Machine learning-based extraction of longitudinal beam parameters in the LHC

Speaker
Michail Zampetakis

Bayesian optimization scheme for the design of a nanofibrous high power target

Speaker
William Asztalos

Real time crystal collimation monitoring at the CERN Large Hadron Collider

Speaker
Gianmarco Ricci

Slow extracted spill ripple control in the CERN SPS using adaptive Bayesian optimisation

Speaker
Nico Madysa

Optimization of AGS bunch merging with reinforcement learning

Speaker
Yuan Gao

Energy deposition in the new SPS's scrapers

Speaker
Samuel Niang

Machine learning for data analysis and control of an MeV ultrafast electron diffraction system and a photocathode laser and gun system: updates

Speaker
Trudy Bolin

Simulations of polarized helions in the HSR

Speaker
Kiel Hock

Time-resolved evaluation of the transient responses of crystal optics to instantaneous heat deposition for wavefront integrity

Speaker
Ye Hong

Bayesian optimization for beam centroid correction at ISAC

Speaker
Emma Ghelfi

Machine learning tools for heavy-ion linacs

Speaker
Brahim Mustapha

Commissioning of the new ps timing system at ELBE

Speaker
Michael Kuntzsch

Tracking error analysis on the power supply currents of J-PARC main ring main magnets

Speaker
Ryotaro Muto

Simulation study on an electron cloud and plasma waves confined in GL2000 device

Speaker
Thomas Dönges

An overview of the LAMP front-end upgrade at LANSCE

Speaker
Kip Bishofberger

18:00