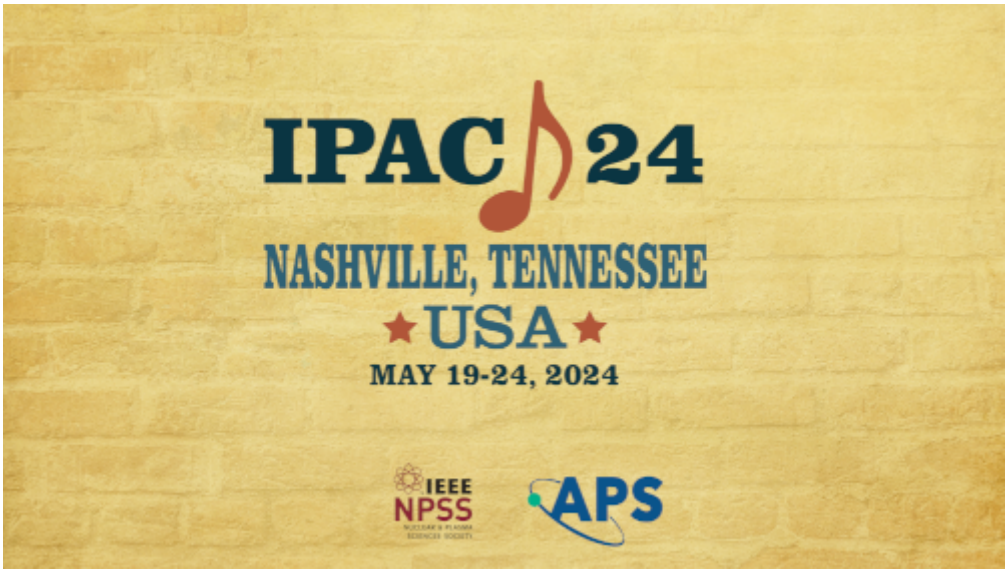
Session Program

19–24 May 2024



IPAC'24 - 15th International Particle Accelerator Conference

Wednesday Poster Session

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

Wednesday 22 May

16:00

Wednesday Poster Session: WEPC

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

Novel high-intensity and gamma-rays sources using crystals

Speaker
Riccardo Negrello

Unconventional high-voltage insulator in DC photoemission sources

Speaker
Paul Plattner

Design of a Ku-band side-coupled standing wave 2.5 MeV accelerator

Speaker
Mr Qingzhu Li

A laser heated thermionic cathode

Speaker
Heather Andrews

Recent studies on high current operation at the compact ERL

Speaker
Masakazu Kurata

LCLS-II MHz-rate photoinjector performance

Speaker
Feng Zhou

Implementing NOECO at NSLS-II

Speaker
Xi Yang

Review of MeV energy scale accelerators, their capabilities, and common applications

Speaker
Prabir Roy

Rubidium telluride photocathodes for high quantum efficiency and low mean transverse energy accelerator applications

Speaker
Christopher Benjamin

Nonlinear optimization for the HLS-II storage ring

Speaker
Masahito Hosaka

Shanghai laser electron gamma source beamline in Shanghai synchrotron radiation facility

Speaker
Hanghua Xu

Development of spin polarized electron sources based on III-V semiconductors at BNL

Speaker
Luca Cultrera

Monte Carlo modeling of spin-polarized photoemission from GaAs with low-temperature and strained-lattice effects

Speaker
John Callahan

Experimental testing of a ceramic enhanced accelerator cavity

Speaker
Kevin Shipman

Optimization of bunch charge distribution for space charge emittance growth compensation in the PERLE injector

Speaker
Connor Monaghan

First Steps Toward Molecular beam epitaxial growth of potassium antimonide photocathodes

Speaker
Elena Echeverria

Design and operation of a commercial molecular beam reactor for alkali antimonide growth

Speaker
Dr Eric Montgomery

DBR-SL-GaAs surface charge limit observation and suppressing for EIC high charge polarized source

Speaker
Erdong Wang

Experimentally verified reduction of local reflection of traveling-wave accelerating structure by output coupler undercoupling

Speaker
Zexin Cao

Update on the MEDUSA ultrafast electron diffraction beamline at Cornell

Speaker
Michael Kaemingk

Dark current studies for a SW C-band electron gun with a deflector

Speaker
Jia Hao Tian

Mass production of 3.9 GHz 9-cell cavities at SHINE

Speaker
Xiaowei Wu

Precise measurements of mean transverse energy of photocathodes

Speaker
Nikolai Yampolsky

Simulation of electron beams from the ELBE superconducting RF gun for ultrafast electron diffraction experiments

Speaker
Raffael Niemczyk

Status of the CARIE high gradient photocathode test facility at LANL

Speaker
Evgenya Simakov

An upgrade for the CeC cathode deposition system: co-deposition of K_2CsSb and CsTe/GaAs for CeC use

Speaker
Dr Kali Prasanna Mondal

GaAs cathode activation with Cs-CsO-Sb thin film

Speaker
Zachary Liptak

Monte Carlo study of electron energy losses and stoichiometry effects in thin cesium antimonide photocathodes

Speaker
Daniel Franklin

Design of an isochronous achromat using transverse gradient undulators

Speaker
Weijie Fan

Concepts for more flexible UED/UEM operation

Speaker
John Lewellen

Pulsed laser deposition assisted growth of alkali-based photocathodes

Speaker
Mengjia Gaowei

The FORTRESS Beamline at Tsinghua University

Speaker
Peng Lv

Using WarpX to simulate linear induction accelerators

Speaker
Edward Basso

Development of a hybrid thermionic and photoemission electron gun and dedicated test stand for ELSA

Speaker
Samuel Kronenberg

Emittance growth and transport of an intense relativistic electron beam after foil scattering

Speaker
Sebastian Szustkowski

Simulation of a 2.6-cell normal-conducting S-band photocathode RF gun

Speaker
Haipeng Zhi

Picometer scale emittance from plasmonic spiral photocathode for particle accelerator applications

Speaker
Alimohammed Kachwala

A new rf design of the two-mode transverse deflecting structure

Speaker
Yusen Guo

Bubble-beam accelerators: breaking the paradigm

Speaker
Luke Dyks

Summary of the workshop on “UED opportunities for dynamical imaging of materials”

Speaker
Janardan Upadhyay

Towards Elettra 2.0 - R&I preparation activities

Speaker
Roberto Visintini

Beam dynamics modelling of the SLS linear accelerator

Speaker
Helena Alamprese

NaKSb photocathode tests in a high gradient S-band photoinjector

Speaker
David Garcia

Preparation, transport, and operation of high quantum efficiency semiconductor Cs_2-Te photocathode for SHINE

Speaker
Xudong Li

Characterisation and optimisation of a C-band photo-injector for compact light sources

Speaker
Francesco Demurtas

Dark current reduction for NSRRC photoinjector system by collimator

Speaker
Yang Jen Lin

Optimization of the ASU CXLS beamline in simulation via Bayesian methods

Speaker
Lucas Malin

Measurement of the spatial distribution of inverse Thomson scattered gamma rays generated by an axially symmetric polarized laser

Speaker
Yoshitaka Taira

Towards operating low mean transverse energy (MTE) alkali antimonide photocathodes at Argonne Cathode Test-stand (ACT)

Speaker
Tariqul Hasan

The design of a 2.3-cell X-band photocathode RF electron gun

Speaker
Zixin Guo

Commissioning simulation for the HALF storage ring

Speaker
Masahito Hosaka

Overview of inverse Compton scattering feasibility studies at MESA

Speaker
Christoph Lorey

Beam dynamics and injection condition in a ring-type dipole of a laser-accelerated electron beam for compact light sources

Speaker
Keonho Kim

Gamma beam modulation in Shanghai Laser Electron Gamma Source

Speaker
Hanghua Xu

APS storage ring waveguide layout study for solid state amplifier upgrade

Speaker
Yong Luo

HOM suppression study for the C-band accelerating structure

Speaker
Dongsung Kim

Monte-Carlo photoemission model for thin film semiconductors under high fields

Speaker
Chengkun Huang

High average current DC electron gun for strong hadron cooling

Speaker
Omer Rahman

Preliminary design for the JHLS storage ring

Speaker
Masahito Hosaka

Optimisation of the PERLE injector using a multi-objective genetic algorithm

Speaker
Connor Monaghan

Quantitative description and correction of longitudinal drifts in the Fermilab linac

Speaker
Ralitsa Sharankova

Collimation for SOLEIL II

Speaker
Laurent Nadolski

Design and implementation of an instrumentation & control system for cathodes and radio-frequency interactions in extremes (CARIE) project

Speaker
Heath Watkins

AIRIX reconfiguration for the synchronization of the two EPURE LINACs and control of the high current functioning point by reducing the consequences of BBU instabilities

Speaker
Frédéric Poulet

Fabrication of semiconductor photocathodes at ACERT

Speaker
Jinlin Zhang

Development of new method of NEA Activation with Cs-Sb-O

Speaker
Yukiya Wakita

Application of a reduced phase velocity high brightness photogun for MeV ultrafast electron diffraction

Speaker
Paolo Craievich

Development and applications of CW normal conductivity VHF gun at Tsinghua university

Speaker
Yian Wang

Effects of defects on the electronic and optical properties of cesium antimonide: insights from first-principles calculations

Speaker
Sandip Aryal

Low-emittance beam generation at Argonne Wakefield Accelerator’s upgraded drive-beam photoinjector

Speaker
Emily Frame

High brightness electron source development in Tsinghua university

Speaker
Peng-Wei Huang

Developments and first results from an RF test stand for high brightness C-band photoguns at PSI

Speaker
Paolo Craievich

Generation of high brightness electron beams by the 2.4-cell photocathode RF gun

Speaker
Hong Qi

Epitaxial growth of cesium potassium antimonide photocathode

Speaker
Dr Kali Prasanna Mondal

Numerical investigation of beam loss scenarios and top-up safety for Elettra 2.0

Speaker
Koryun Manukyan

Status of the RUEDI UK national facility design

Speaker
Julian McKenzie

Dark current in the LCLS Injector: characterization and mitigation strategies

Speaker
Sean Littleton

Commissioning an S-band hybrid photocathode gun in Mithra laboratory at UCLA

Speaker
Fabio Bosco

Comparison of WarpX and GUINEA-PIG for electron positron collisions

Speaker
Mr Bao Nguyen

18:00

16:00

Wednesday Poster Session: WEPG

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

Two slit emittance measurement with thermal emittance isolation for an SRF injector

Speaker
Mr Benjamin Sims

Simulations of an electro-optical in-vacuum bunch profile monitor and measurements at KARA for use in the FCC-ee

Speaker
Micha Reissig

Beam alignment strategy at the beam transport line for J-PARC muon g-2/EDM experiment

Speaker
Hiromi Iinuma

Development and performance evaluation of the Cavity BPM system for SHINE

Speaker
Jian Chen

Passive longitudinal bunch diagnostics with a dielectric Wakefield streaker at CLARA

Speaker
Beatriz Higuera Gonzalez

Demonstration of time-resolved diagnostic in coherent electron cooling pop experiment

Speaker
Kai Shih

Beam tomography using MCMC

Speaker
Anthony Tran

Experimental study into the invasiveness of a gas jet beam profile monitor for charged particle beams

Speaker
Oliver Stringer

Design of a non-invasive bunch length monitor using coherent synchrotron radiation simulations

Speaker
Lauryn Eley

Simulation of the C-band transverse deflection structure with variable polarization for super tau charm facility

Speaker
Zexin Cao

Gas jet-based beam profile monitor for the electron beam test stand at CERN

Speaker
Oliver Stringer

Optimizing current density measurements for intense low beta electron beams

Speaker
Madison Howard

Using CT algorithm to reconstruct electron beams transverse phase space in HUST-UED

Speaker
Yang Xu

Longitudinal phase space measurement using a corrugated metallic dechirper at PAL-XFEL

Speaker
Chang-Kyu Sung

Commissioning and experiments with a compact transverse deflecting system at FLUTE

Speaker
Matthias Nabinger

Magnetron diagnostics with a novel optical fibre-Cherenkov detector

Speaker
Prof. Carsten Welsch

Status of the new bunch length measurement system downstream of the injector of the S-DALINAC

Speaker
Adrian Brauch

Impact of octupoles on the Schottky spectra of bunched beams

Speaker
Christophe Lannoy

Detailed simulation study of wakefield induced beam dynamics in the dielectric dechirper at CLARA

Speaker
Beatriz Higuera Gonzalez

ESS WS scintillator system design and test results

Speaker
Viatcheslav Grishin

Design of a constant-gradient backward-traveling-wave accelerating structure for irradiation

Speaker
Hongbo Yu

MENT-Flow: maximum-entropy phase space tomography using normalizing flows

Speaker
Austin Hoover

Longitudinal phase space density tomography constrained by the Vlasov-Fokker-Planck equation

Speaker
Micha Reissig

Updates on the Cornell cryo-MTE-meter beamline

Speaker
Charles Zhang

Ionization profile monitor for in-vivo dosimetry in medical accelerators

Speaker
Prof. Carsten Welsch

Resonant spin depolarization at the test facility KARA: overview of recent efforts

Speaker
Johannes Steinmann

Developments of beam loss monitors for FETS-FFA test ring

Speaker
Emi Yamakawa

Design of an ion-acoustics proof-of-principle experiment for LhARA

Speaker
Richard Amos

Overview of beam intensity issues and mitigations in the CERN-SPS fast wire scanners

Speaker
Raymond Veness

Beam studies using a Cherenkov diffraction based beam position monitor for AWAKE

Speaker
Bethany Spear

Impact of second-order chromaticity on the Schottky spectra of bunched beam

Speaker
Kacper Lasocha

Sub-femtosecond resolution electro-optical arrival-time measurement of relativistic electron bunches in a free-electron laser

Speaker
Vladimir Arsov

Measuring uniformity and gas density of gas sheet profile monitor for use with heavy-ion accelerators

Speaker
Aubrey Lokey

A single shot THz spectrometer for the FEBE experimental facility

Speaker
Emily Shackleton

Beam position monitoring system and beam commissioning at APS-U storage ring

Speaker
Weixing Cheng

Digital processing of electron beam images for glass plate irradiation: analysis of electron beam profiles and absorbed dose distribution

Speaker
Dr Armen Grigoryan

Electromagnetic bench testing of ALS upgrade beam monitor buttons and assemblies

Speaker
Dan Wang

Reflectivity studies and production of new flat mirrors for the Cherenkov threshold detectors at CERN

Speaker
Elisabetta Parozzi

Design of a 3-cell rectangular deflecting cavity for a compact THz-FEL

Speaker
Ruiying Luo

Ionization profile monitors for the IOTA proton beam

Speaker
Alexander Romanov

SiPM integration testing for FACET-II pair spectrometer

Speaker
Jack Phillips

Resonator design optimization for a compact transverse-deflecting system

Speaker
Matthias Nabinger

Single-shot determination of the Munich Compact Light Source’s two-dimensional X-ray source profile based on a backprojection approach

Speaker
Benedikt Günther

Electro-optical spectral decoding of THz pulses at MHz repetition rates

Speaker
Micha Reissig

Design of the cryogenic BPM pick-up for the EIC hadron storage ring

Speaker
Medani Sangroula

The study of single bunch instability at the Taiwan Photon Source

Speaker
Jin-Kun Liao

Emittance and luminosity monitoring and modelling for LHC Run 3

Speaker
Ilias Efthymiopoulos

NSLS-II bunch by bunch BPM development and beam operation

Speaker
Kiman Ha

Mechanical design of the thermal imaging system for the FRIB target

Speaker
Sergio Rodriguez Esparza

Measurements and computer simulations of the effect of magnet vibrations on the electron beam orbit in the NSLS-II storage ring

Speaker
Aamna Khan

Development of an active beam-stabilization system for electrofission experiments at the S-DALINAC

Speaker
Dominic Schneider

R&D of EOTD bunch length monitor for SXFEL

Speaker
Lianfa Hua

Low-cost button BPM signal processing electronics for the AWA electron linac

Speaker
Alexander Ody

Slice energy spread measurements of a 20 MeV electron beam at PITZ

Speaker
Christopher Richard

Real-time measurements of the RF-path of an electro-optical bunch arrival-time monitor with integrated planar pickup structure with low-charge electron beams at ELBE

Speaker
Mr Bernhard Scheible

Wire scanner assessment of transverse beam size in the Fermilab side-coupled linac

Speaker
Ralitsa Sharankova

Improving the dynamic range of a wire scanner up to 1e+7

Speaker
Renjun Yang

Real-time 100 MeV proton beam monitoring system for radioisotope production at KOMAC

Speaker
Dr Yu-Mi Kim

Second generation Cherenkov diffraction radiation studies at Diamond Light Source

Speaker
Alec Clapp

Hybrid RF photoinjector beam characterization with FET detectors

Speaker
Maksim Kravchenko

CXLS inverse Compton scattering interaction point chamber

Speaker
Alex Gardeck

High-resolution bunch profile measurements for enhanced longitudinal beam diagnostics

Speaker
Ylenia Brischetto

Impedance and thermal studies of the CERN SPS wire scanners and mitigation of wire heating

Speaker
Carlo Zannini

Gas sheet ionization based monitor for electron beams

Speaker
Gerard Andonian

Final design of the Cryogenic Current Comparator for FAIR

Speaker
Thomas Sieber

Geant4 simulations on Faraday cup design for PIP-II Laser wire scanner system

Speaker
Sajini Wijethunga

Simulations of simultaneous measurement of GHz bunches using a fast kicker

Speaker
Xiao-Yang Zhang

Detailed characterization of coherent synchrotron radiation effects using generative phase space reconstruction

Speaker
Juan Pablo Gonzalez-Aguilera

Time-interleaved-sampling for high bandwidth BPM signals

Speaker
Scott Cogan

Characterizing optical synchrotron radiation in the geometric optical phase space and optimizing the energy transport to a photo detector

Speaker
Marvin Noll

Effects of delta ray electrons on measurement uncertainties of harp system

Speaker
Yong Joong Lee

Fermilab Booster beam emittances from quadrupole modes measured by BPMs

Speaker
Michael Balcewicz

Gas jet dosimeter measurements at DCF for medical accelerator applications

Speaker
Prof. Carsten Welsch

Experimental and simulated LHC Schottky spectra

Speaker
Christophe Lannoy

Fast laser focal position correction using deployed models

Speaker
Nathan Cook

Measurements of the transverse beam emittance at the AREAL linac

Speaker
Dr Armen Grigoryan

Implementing bunch-by-bunch diagnostics at the KARA booster synchrotron

Speaker
Marvin Noll

Non-invasive beam diagnostics using differentiable simulations and computer vision methods

Speaker
Robbie Watt

Investigations of a potential 5D detector system for a laserwire instrument on the front end test stand

Speaker
Siobhan Alden

White X-ray beam position monitor for coherent soft X-ray beamlines

Speaker
Boris Podobedov

Beam diagnostics status for the Korea 4GSR project

Speaker
Si-Won Jang

The RF BPM pickup and feedthrough testing results in the lab and SR for APS-U

Speaker
Xiang Sun

Real-time processing of longitudinal Schottky signals in CERN’s antiproton chain

Speaker
Marco Niccolini

An improved beam-based method to calibrate the relative gains of the beam position monitor pick-up electrodes at the Cornell Electron Storage Ring

Speaker
Antoine Chapelain

The status of beam instrument at CSNS

Speaker
Fang Li

Analog APS linac phase detector and digital phase detector test comparison

Speaker
Adam Brill

Charge measurement systems on CLARA at Daresbury laboratory

Speaker
Storm Mathisen

18:00

16:00

Wednesday Poster Session: WEPR

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

Update of the PLACET2 code for the low-energy acceleration stages of the muon collider

Speaker
Bernd Stechauner

Hybrid on-axis and off-axis top-up injection at the future circular lepton collider

Speaker
Eliott Johnson

3D beam tracking studies including intrabeam scattering

Speaker
Alexander Engeda

Emittance and energy distribution reduction in the positron injector of FCC-e+e-

Speaker
Simone Spampinati

Measurements of the time-structure of the current to a single injection kicker module and simulation of its effect on the transverse beam dynamics in SIS100

Speaker
Markus Kirk

Electron cloud simulations in the Fermilab booster

Speaker
Sajini Wijethunga

Understanding of the new horizontal instability at the PS Booster after LIU

Speaker
Chiara Antuono

Lattice correction and polarization estimation for the Future Circular Collider e+e-

Speaker
Léon van Riesen-Haupt

Modelling intra-beam scattering in the LHC for longitudinal beam loss studies

Speaker
Michail Zampetakis

Simulated performance of FCC-ee IP tuning knobs

Speaker
Léon van Riesen-Haupt

Experimental evidence of the effect of transverse Landau damping on the microbunching instability

Speaker
Simone Di Mitri

Proposed muon collider R&D at SNS

Speaker
Vasiliy Morozov

Electron cloud studies for DAΦNE collider and FCCee damping ring

Speaker
Senem Ozdemir

A review of the Beam Delivery Simulation (BDSIM) user community

Speaker
William Shields

Status of the synchrotron radiation studies in the interaction region of the FCC-ee

Speaker
Kévin André

A parallel variable population multi-objective optimization software package for accelerator design optimization

Speaker
Ji Qiang

C-band high-gradient linac design considerations for HPC modeling

Speaker
Trudy Bolin

The design and electromagnetic analyses of the new elements in the FCC-ee IR vacuum chamber

Speaker
Manuela Boscolo

A high-energy Muon Collider at Fermilab

Speaker
Diktys Stratakis

Conceptual RF design and modelling of a 704 MHz cavity for the muon cooling complex

Speaker
Carmelo Barbagallo

Parameter space for the magnetic design of Nested Magnets in the FCC-ee arc cell

Speaker
Cristobal Miguel Garcia Jaimes

Report on an international accelerator school - ISBA23

Speaker
Zachary Liptak

Near-infrared noise in intense electron beams

Speaker
Sergei Kladov

Observation of a synchro-betatron instability in Fermilab booster

Speaker
Michael Balcewicz

DAFNE operation strategy for the observation of the kaonic deuterium

Speaker
Catia Milardi

Initial design of a proton complex for the Muon Collider

Speaker
Sofia Johannesson

Evaluation of plasma cascade amplifier at frequency of 15 THz

Speaker
Vladimir Litvinenko

First FCC-ee lattice designs with Nested Magnets

Speaker
Cristobal Miguel Garcia Jaimes

Developing nested auto-differentiation tracking code for beam dynamics optimization

Speaker
Jinyu Wan

Innovative bulge test setup to characterize thin beam vacuum windows

Speaker
Marco Morrone

ImpactX space charge modeling of high intensity linacs with mesh refinement

Speaker
Chad Mitchell

Simulation of coupled space charge and wakefield effects for a prototype TW-gun at SwissFEL

Speaker
Jonas Christ

Mitigation of ion effects with online bunch pattern optimization

Speaker
Nikita Kuklev

H- source characterization and transfer line studies with realistic EM fields in the ELENA decelerator at CERN

Speaker
Lajos Bojtar

Introducing a semi-Gaussian mixture model for simulating multiple coulomb scattering in RF-track

Speaker
Bernd Stechauner

Xsuite: an integrated beam physics simulation framework

Speaker
Konstantinos Paraschou

An engineering prototype of a late stage ionization cooling cell for a muon collider

Speaker
Diktys Stratakis

Experimental designs of coherent synchrotron radiation in complex beams

Speaker
Omkar Ramachandran

Measurement of stability diagrams in the IOTA ring at Fermilab

Speaker
Mary Bossard

Probing FCC-ee energy calibration through resonant depolarization at KARA

Speaker
Johannes Steinmann

FLUKA simulations of neutrino-induced effective dose at a Muon Collider

Speaker
Alessandro Frasca

Testing electron polarization at SuperKEKB using Touschek lifetimes

Speaker
Zachary Liptak

Algorithmic access to beam control and beam diagnostics at COSY Jülich

Speaker
Jan Hetzel

Field emission assisted heating of Cs2Te photocathode: implication toward RF breakdown

Speaker
Ryo Shinohara

The European Spallation Source neutrino super beam

Speaker
Marcos Dracos

Possible harmonic spin matching schemes using orbit bumps for the Future Circular Collider e+e-

Speaker
Yi Wu

Simulation studies for the confinement of antiprotons for the AEgIS experiment

Speaker
Prof. Carsten Welsch

Simulations of incoherent effects driven by electron clouds forming in the inner triplets of the Large Hadron Collider

Speaker
Konstantinos Paraschou

Relaxed insertion region optics and linear tuning knobs for the Future Circular Collider

Speaker
Léon van Riesen-Haupt

Conceptual design of the HTS split coil test facility for the Muon Collider cooling section

Speaker
Marco Statera

Status of the time-dependent FEL code Genesis 1.3

Speaker
Christoph Lechner

Searching for the best initial beam parameters for efficient muon ionization cooling

Speaker
Bernd Stechauner

Low-energy muon and muonium beam source at Fermilab

Speaker
Daniel Kaplan

Selected advances in the accelerator design of the Future Circular Electron-Positron Collider (FCC-ee)

Speaker
Frank Zimmermann

Radiation shielding studies for superconducting magnets in multi-TeV muon colliders

Speaker
Alessandro Frasca

MELODY – the first muon facility in China

Speaker
Yu Bao

Radiation load studies for the proton target area of a multi-TeV muon collider

Speaker
Alessandro Frasca

Progress & developments of BDSIM

Speaker
William Shields

Optimizing Touschek lifetime with overstretched bunch profiles in the MAX IV 1.5 GeV ring

Speaker
Murilo Alves

Temperature, density of states, and thin film optical effects on electron emission from semiconductor photocathodes

Speaker
Dimitre Dimitrov

Improved symplectic particle tracking for modern vectorized architectures

Speaker
Nikita Kuklev

Update in the optics design of monochromatization interaction region for direct Higgs s-channel production at FCC-ee

Speaker
Angeles Faus-Golfe

Review of MAD-X for FCC-ee studies

Speaker
Angeles Faus-Golfe

Preliminary design consideration for CEPC fast luminosity feedback system

Speaker
Meng Li

Bmad-Julia: a Julia environment for accelerator simulations including machine learning

Speaker
David Sagan

The status of the FCC-ee optics tuning

Speaker
Léon van Riesen-Haupt

First comparison studies in dynamic aperture for nested magnets and baseline lattice in the FCC-ee

Speaker
Cristobal Miguel Garcia Jaimes

Benchmarking equilibrium emittance simulation tools for the Future Circular Collider

Speaker
Léon van Riesen-Haupt

Development of novel magnetically-focussed minibeams for in vivo and in vitro end stations for LhARA

Speaker
Rehanah Razak

Data processing for profile monitor of HEPS linac

Speaker
Jintao Li

Beam loading mitigation with digital direct RF feedback at ALBA

Speaker
Jesus Ocampo

Simulation of the effects of transverse feedback system on beam performance at BEPCII

Speaker
Huiping Geng

18:00

16:00

Wednesday Poster Session: WEPS

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

Progress on the autonomous event detection system for the laser particulate counter

Speaker
Amy Sy

Mechanical design of the 12 T superconducting dipole. An accelerator-fit, Nb_3Sn double aperture magnet

Speaker
Marco Masci

SuperKEKB IR upgrade idea with Nb_3Sn quadrupole magnets

Speaker
Mika Masuzawa

An update on IRIS demonstrators

Speaker
Marco Statera

A life cycle assessment of the ISIS-II neutron and muon source

Speaker
Dr Hannah Wakeling

Mapping the stray magnetic field at the Relativistic Heavy Ion Collider tunnel

Speaker
Holger Witte

CERN accelerates sustainability

Speaker
Roberto Losito

High power conditioning of the prototype power coupler for CSNS-II spoke cavity

Speaker
MengXu Fan

Results from extended range SRF cavity tuner tests for LCLS-II-HE

Speaker
Crispin Contreras-Martinez

V_3Si: an alternative thin film material for superconducting RF cavities

Speaker
Christopher Benjamin

Novel materials for beam acceleration

Speaker
Sadie Seddon-Stettler

Cavity and cryomodule test stands in SHINE

Speaker
ShenJie Zhao

Testing of two-cell RF-dipole crab cavity

Speaker
Subashini De Silva

Devices and preparation methods for niobium coupon samples used to investigate high-Q mechanism

Speaker
Yue Zong

High-intensity polarized and unpolarized H^- sources development and operation at BNL

Speaker
Antonino Cannavó

First high-Q treatments for FCC 800 MHz 5-cell elliptical cavities

Speaker
Kellen McGee

REBCO sample testing at high power X-band

Speaker
Ankur Dhar

Design, construction and operation of a surface-treatment platform for SHINE superconducting cavities

Speaker
Jinfang Chen

HPR and plasma processing of a superconducting 360 MHz CH cavity

Speaker
Patrick Mueller

Mapping of an SRF electron gun focusing solenoid assembly

Speaker
Christopher Jones

Particles and photon attenuating behavior of lead-free $Eu3^+$ doped barium phosphate glass system

Speaker
Devendra Upadhyay

Superconducting dipole for Elettra 2.0

Speaker
Dr Marco Modica

Measurement of integrated gradient and field quality on the first Q2 magnets for HL-LHC

Speaker
Lucio Fiscarelli

Niobium-tin as a transformative technology for low-beta linacs

Speaker
Troy Petersen

The first superconducting final focus quadrupole prototype of the FCC-ee study

Speaker
Adrien Thabuis

ESS installation progresses

Speaker
Paolo Pierini

HOM power in the EIC crab cavity system

Speaker
Binping Xiao

Upgraded multiprobe sample inserts for thin film SRF cavity developments

Speaker
Christopher Benjamin

Microscopic understanding of the effects of impurities in low RRR SRF cavities

Speaker
Katrina Howard

Overview of the superconducting accelerator magnet system developments at the Karlsruhe Institute of Technology

Speaker
Julian Gethmann

First conduction cooled photoinjector status

Speaker
Roman Kostin

Ferroelectric fast reactive tuner – technology progress and applications

Speaker
Alexei Kanareykin

Development of superconducting RF cavity in traveling-wave regime at Fermilab

Speaker
Kellen McGee

Passively stable pulsed optical timing distribution at 1030-nm wavelength using hollow core optical fibers

Speaker
Kemal Shafak

Installation and commissioning of the APS-U bunch lengthening system

Speaker
Michael Kelly

Field emission experience, statistics and challenges with ESS elliptical cryomodules

Speaker
Cecilia Maiano

Superconducting magnets for SIS100 and Super-FRS at FAIR – overview and progress

Speaker
Christian Roux

Lessons learned from hardware failure during HL-LHC AUP cabling

Speaker
Elizabeth Lee

First year of data taking with the electricity meter network for sustainable operation of the KIT accelerator facilities for the KITTEN project

Speaker
Julian Gethmann

T-Mapping diagnostic system for vertical test of SHINE superconducting cavity

Speaker
Yuechao Yu

Development of a TE-mode sample host cavity

Speaker
Yue Zong

Single unified model of a CCT dipole using 3DEXPERIENCE platform

Speaker
Ben Pine

Prototype and high-power test of SiC HOM

Speaker
Wencan Xu

Status of coil-dominated discrete-cosine-theta quadrupole prototype for high rigidity isotope beams

Speaker
David Greene

Investigation of hot-spots due to trapped flux in niobium superconducting radiofrequency cavities

Speaker
Bashu Khanal

A design for very short powered quadrupoles

Speaker
Alexander Herrod

Cryomodules development for SHINE project

Speaker
Jinfang Chen

On-line helium mass flow monitoring system for SRF cavities at 2 K

Speaker
Kevin Jordan

Progress on high power FPC development for EIC

Speaker
Wencan Xu

Superconducting thin films for higher order mode antennas to increase the CW performance of SRF cavities at MESA

Speaker
Paul Plattner

Optimization studies on accelerator sample components for energy management purposes

Speaker
Falastine Abusaif

Coupler HV bias studies on ESS elliptical cavities

Speaker
Cecilia Maiano

Low RF loss DC conductive ceramic for RF windows

Speaker
Ben Freemire

Tailoring the production of Nb superconducting films for SRF cavities: mass/ energy spectroscopy and film characterisation

Speaker
Stephane Simon

In situ plasma processing of superconducting cavities at JLab, 2024 update

Speaker
Iresha Senevirathne

Optimizing the magnetic circuit of HTSU through REBCO tape selection

Speaker
Chin-Kang Yang

Development of a plasma simulation tool for accelerating cavities

Speaker
Nabin Raut

Hybrid plasma generator for high intensity fast pulsed ion sources

Speaker
Julian Rausch

Status of the power coupler for the half wave resonator in IRIS

Speaker
Dr Junyoung Yoon

Impact of medium temperature heat treatment on flux trapping sensitivity in SRF cavities

Speaker
Bashu Khanal

Study of the generalized electron emission theory in a superconducting cavity

Speaker
Heetae Kim

Parameters and process study of copper chamber coating with niobium thin films in DC and HIPIMS modes

Speaker
Jiawen Kan

Thermal studies of the magnet quenches of the SuperKEKB beam final focus system

Speaker
Prof. Norihito Ohuchi

Buffered chemical polishing process for SHINE 3.9 GHz cavities

Speaker
Zheng Wang

Development of plasma processing for coaxial cavity cryomodules

Speaker
Walter Hartung

Upgrading of the INFN-LNF magnetic measurements laboratory

Speaker
Lucia Sabbatini

Design and prototyping of the Electron Ion Collider electron storage ring 591 MHz elliptical SRF cavity

Speaker
Jiquan Guo

Time decay effect of the superconducting final focus quadrupole fields on SuperKEKB beam operation

Speaker
Prof. Norihito Ohuchi

A faster initial cesium transfer for the LANSCE H^- ion source

Speaker
David Kleinjan

Quench detection and protection measures of superconducting cavities at ESS

Speaker
Nuno Elias

Ion sources for FAIR - Facility for Antiproton and Ion Research at Darmstadt, Germany

Speaker
Ralph Hollinger

Conceptual designs of a 20 T dipole based on hybrid HTS/LTS cos-theta coils

Speaker
Alexander Zlobin

Preliminary design of a new superconducting harmonic cavity for HALF storage ring

Speaker
Zexin Cao

Comparison on the superconducting properties of Nb and NbTiN thin films produced by both HiPIMS and bipolar HiPIMS

Speaker
Stephane Simon

Development and test of a large-aperture Nb3Sn cos-theta dipole coil with stress management

Speaker
Alexander Zlobin

X-ray measurements in a prototype superconducting radiofrequency electron gun for LCLS-II-HE project

Speaker
Kaela Villafania

Decoupling of nitrogen and oxygen impurities in nitrogen doped SRF cavities

Speaker
Hannah Hu

In the pursuit of next-generation SRF cavities with energetic condensation

Speaker
Anne-Marie Valente-Feliciano

Tolerance calculations for 197 MHz prototype crab cavity for EIC

Speaker
Subashini De Silva

Development and test of a small-aperture dipole coil made of REBCO stacked-tape cable

Speaker
Alexander Zlobin

Summary of the LANL mini-workshop on source region options for LAMP

Speaker
John Lewellen

18:00