Session Program

10–15 Aug 2025

NAPAC25 - North American Particle Accelerator Conference 2025

THP: Thursday Poster Session

SAFE Credit Union Convention Center
1401 K St, Sacramento, CA 95814

Thursday 14 August

16:00

THP: Thursday Poster Session

Poster Session | **Location:** SAFE Credit Union Convention Center, 1401 K St, Sacramento, CA 95814

Traveling-wave chopper structures for LANSCE Modernization Project

Speaker
Sergey Kurennoy

The APS Linac RF System upgrading status and next plan

Speaker
Yawei Yang

Design of a GammaT-Jump System for Fermilab Booster

Speaker
Jeffrey Eldred

Final design of CARIE photoinjector cavity with plug insert

Speaker
Haoran Xu

Measurements of single-shot attosecond X-ray pulses at high repetition rate

Speaker
Veronica Guo

Evaluating a transition-jump system for the Fermilab Main Injector using Xsuite

Speaker
Adam Schreckenberger

Spectrotemporal shaping of attosecond x-ray free-electron laser pulses

Speaker
River Robles

Tuning of a Force-neutral Adjustable Phase Undulator

Speaker
Maofei Qian

Measuring orbit responses with oscillating trajectories in the Fermilab Linac

Speaker
Alexander Shemyakin

Time-of-Flight energy measurements with BPMs

Speaker
Alexander Shemyakin

Update on septum magnet redesign at LANSCE Proton Storage Ring

Speaker
Haoran Xu

Progress towards conceptual design for the AS2 lattice

Speaker
Xuanhao Zhang

Cesium Telluride Photocathodes: PLD assisted Epitaxial Growth

Speaker
Dr Kali Prasanna Mondal

Single spike hard x-ray free-electron laser pulses generated by photocathode laser shaping

Speaker
River Robles

Multi-GeV FFA Beam Transport Test at CEBAF

Speaker
Salim Ogur

Simulation of the thermoelectric effect in a multi-metallic superconducting cavity

Speaker
Nabin Raut

Impact of Phase and Amplitude Instabilities on Beam Performance in the FACET-II LINAC

Speaker
Marcellus Parker

Advancing to 500 mA: High-Current Ramp-Up and Operational Experience at NSLS-II

Speaker
Guimei Wang

Force-Neutral Adjustable Phase Undulators

Speaker
Tara Hodgetts

Steady-State Microbunching using Optical Stochastic Cooling

Speaker
Michael Wallbank

Development of the rocking curve imaging setup at BL17-2 at SSRL

Speaker
Mario Balcazar

Simulations of Positron Injector for Ce+BAF

Speaker
Andriy Ushakov

Beamline Optics Design of a New Two-Room Treatment Suite at the McLaren Proton Therapy Center

Speaker
George Gillespie

ORTHOGONAL DIRECTIONS CONSTRAINED GRADIENT METHOD FOR BEAM OPTICS CORRECTION

Speaker
Timofey Gorlov

Radioisotope production at the Spallation Neutron Source: Design concept of experimental target station

Speaker
Yong Joong Lee

Photon Stimulated Desorption Beamline at NSLSII

Speaker
Robert Todd

LAMP Front-End RFQ optimization for micropulse production

Speaker
Haoran Xu

Performance Requirements for the LANSCE Accelerator Modernization Project

Speaker
Dr John Lewellen

3D Theory of the Ion Channel Laser

Speaker
Claire Hansel

Low Energy Accelerator Development Facility Upgrades

Speaker
Anusorn Lueangaramwong

Four unique features of dynamical friction for magnetized and unmagnetized cooling of relativistic hadron beams

Speaker
David Bruhwiler

Hollow-Core Fiber Optics as a Path Towards Laser- Electron Based Compact X-ray Sources

Speaker
Gerrit Bruhaug

Design Update of the ATLAS Multi-User Upgrade at Argonne

Speaker
Brahim Mustapha

Distributed Drive Linac Architecture for Compact Accelerators

Speaker
Leanne Duffy

Single-shot longitudinal phase-space measurement of thermionic gun beam at the Advanced Photon Source linac*

Speaker
Timothy Suzuki

Tunable Terawatt Attosecond Soft-X-Ray Pulse Pair from a Plasma Wakefield Driven Free Electron Laser

Speaker
Xuan Zhang

BeamNetUS at Brookhaven National Laboratory

Speaker
Anusorn Lueangaramwong

Longterm sustainment of electron beam linac systems for e-beam sterilization application

Speaker
Yoko Parker

SLAC MeV Ultrafast Electron Diffraction Facility Upgrade Plans

Speaker
Robert England

Beam bunchers for LANSCE Modernization Project

Speaker
Sergey Kurennoy

The potential high orders of vertical electric field systematic effect due to hyperbolic/elliptical deformed electrode plates in the proton-EDM ring

Speaker
Bhawin Dhital

Mitigating Transition in the Fermilab Booster Using a Triple Phase Jump

Speaker
Jean-Francois Ostiguy

Study of nonlinear beam dynamics of an asymmetric NSLS-II lattice

Speaker
Minghao Song

Development of Sodium Potassium Antimonide Photocathodes for Use of Coherent electron Cooling

Speaker
Dr Kali Prasanna Mondal

Physics Model to Study Resonant Compton Scattering

Speaker
William Delooze

Analytical model for the transition to superradiance in seeded free-electron lasers

Speaker
River Robles

Visualization Tools for EGUN Simulations

Speaker
Katie Casey

Development of superconducting adaptive gap undulator (SC-AGU)

Speaker
Toshiya Tanabe

Leveraging the capabilities of LCLS-II: linking adaptable photoinjector laser shaping to tailored X-ray production

Speaker
Jack Hirschman

Isochronous Induction Cell Storage Ring

Speaker
Mei Bai

Transport Lattice Optimization for an S-Band Compact Electron Linear Accelerator

Speaker
Joshua Yoskowitz

Emulation of Two-Pass Gain in a cavity-based XFEL via Self-Seeding at LCLS

Speaker
Mario Balcazar

Implementation of Electron–X-ray Beam Overlap Diagnostic Instrument at LCLS

Speaker
Mario Balcazar

Experimental demonstration of terahertz transport using overmoded iris-line waveguide

Speaker
Mohamed Othman

Updates on scientific and R&D highlights at SLAC MeV-UED facility

Speaker
Fuhao Ji

The Reconfiggler: A uniquely versatile wiggler

Speaker
Nathan Majernik

Ultra-Bright Cavity-Based X-ray Free Electron Lasers

Speaker
Zhirong Huang

The LANL Proton radiography Facility and Near-Term Improvements

Speaker
John Schmidt

Design Optimization of a Dual Energy Electron Storage Ring Cooler for Improved Cooling Performance

Speaker
Fanglei Lin

Implementation of an automated paradigm for alkali metal - metalloid photocathode growth

Speaker
Alexei Kanareykin

Radioisotope production at the Spallation Neutron Source: Design concept of isotope production target

Speaker
Yong Joong Lee

Recent progress on CsTe photocathode growth at LANL

Speaker
Haoran Xu

User research at BNL’s Accelerator Test Facility

Speaker
Mr Marcus Babzien

Calculations of emittance measurements via inverse Compton scattering

Speaker
Michael Kaemingk

Free-Electron Laser Approaches to 6.x nm Generation for Blue-X Lithography

Speaker
Dinh Nguyen

Spin-Transparent Storage Rings for Quantum Computing

Speaker
Riad Suleiman

Advancing Conduction-Cooled 650 MHz SRF Technology for Industrial Accelerators at Fermilab's IARC

Speaker
Yichen Ji

Optimization of kicker location for pseudo single bunch operation in SPEAR3

Speaker
Dr Peifan Liu

Flattening the Magnetic Field at Booster Injection Using Corrector Dipole Magnets for PIP-II

Speaker
Kiyomi Seiya

High Energy Heavy Ion Single Event Effects (HE HISEE): Planning for the Future of Microelectronics

Speaker
Dr Sandra Biedron

Commissioning of the Complex Bend Prototype Beamline

Speaker
Guimei Wang

Transport of 12 GeV positron beams at Ce+BAF

Speaker
Salim Ogur

Design of a microbunched electron cooler energy recovery linac

Speaker
Kirsten Deitrick

Feasibility Studies of the Stochastic Cooling System in the Proton Storage Ring EDM Experiment

Speaker
Bhawin Dhital

Feasibility of proton bunch compression in an operational high-power accelerator

Speakers
Austin Hoover, Vasiliy Morozov

An electrostatic fusion collider for interstellar propulsion

Speaker
Ms Grace Bittlingmaier

Advanced Growth and Characterization of Alkali Antimonide Photocathodes for Bright Beam Applications

Speaker
Tariqul Hasan

Systematic comparison and design approach for standard HOA-type storage ring lattice

Speaker
Xuanhao Zhang

Growth and characterization of GaAs based spin-polarized photocathodes

Speaker
Pallavi Saha

Automatic measurement of the stray magnetic field in the RCS locations of RHIC by using the SPOT robot

Speaker
Peng Xu

Radioisotope Production at SNS (RIPS)

Speaker
Justin Griswold

Digital Twin Framework for PIP-II Linac: AI-Driven Multi-Scale Modeling from Ion Source to 800 MeV

Speaker
Abhishek Pathak

A Compact 2D Carbon Beam Scanner with Interleaved Saddle Coils

Speaker
Brahim Mustapha

Research program at the NLCTA Test Facility

Speaker
Emma Snively

Improving sustainability of electron beam linac system

Speaker
Yoko Parker

Critical Design Issues of the Novel Multi-Beam LANSCE Front End

Speaker
Yuri Batygin

The Los Alamos Neutron Science Center (LANSCE) Accelerator: Current Condition and Status of Modernization Efforts

Speaker
Steven Russell

Beam Loss Modeling and Mitigation Due to Intra- Beam Stripping in H- Linacs

Speaker
Shivam Kakkar

Status of MicroBeam Linatron (MBL) product line development at Varex Imaging Corporation.

Speaker
Dr Andrey Mishin

Beam Dynamics in LANSCE Accelerator Facility with Lower Energy

Speaker
Yuri Batygin

18:00