

Session Program

26-31 Jul 2026



Advanced Accelerator Concepts 2026

A5-Working group # 5

Luskin Conference Center, UCLA

Monday 27 July

13:30

A5-Working group # 5

Session | **Location:** Luskin, Ballroom C&D

13:30-13:50

Monte-Carlo modeling and experimental investigation of photoemission from CsTe semiconductor photocathode under high fields

Speaker

Chengkun Huang

13:50-14:10

Tunable photocathode double-bunch mode for advanced accelerator application

Speaker

Yiheng Ye

14:10-14:30

Towards Low-MTE Photocathodes in Accelerators

Speaker

Oksana Chubenko

14:30-14:50

Cathode laser temporal shaping for LCLS-HE

Speaker

Nicholas Sudar

14:50-15:10

Progress of the E31x program at SLAC FACET-II

Speaker

Edgar Anton Hartmann

15:30

16:00

A5-Working group # 5

Session | **Location:** Luskin, Ballroom C&D

16:00-16:20

High temporal resolution THz streaking of high brightness relativistic electron beams

Speaker

Maximilian Lenz

16:20-16:40

High-Efficiency Attosecond-Resolution Terahertz Streaking of Relativistic Electron Beams

Speaker

Mr Peng Lv

16:40-17:00

THz-Driven Longitudinal Phase-Space Control and Diagnostics of Laser-Plasma-Accelerator Beams for Compact X-Ray Sources

Speaker

Nicholas Matlis

17:00–17:20

Compact THz Streaking Framework for Robust Longitudinal Diagnostics in Advanced Accelerators**Speaker**

Gerard Lawler

17:20–17:40

Electro-Optic Sampling Beam Positioning Monitor for Relativistic Electron Beams**Speaker**

Elena Ros

17:40–18:00

Title: Phase-Diversity Electro-Optic Sampling for Shaped Electron Beam Profile Monitoring**Speaker**

Spencer Kelham

18:00

Tuesday 28 July

13:30

A5-Working group # 5

Session | **Location:** Luskin, Ballroom C&D

13:30-13:50 Cavity-Based Beam Charge and Arrival Time Monitor

Speaker

Atharva Kulkarni

13:50-14:10

The role of coherent Smith-Purcell radiation for LWFA e-beam diagnosis

Speaker

Mr Ross Rudzinsky

14:10-14:30

All-optical, quasi-real-time measurement of the 3- and higher-dimensional structure of microbunched electrons from a laser-driven wakefield accelerator

Speaker

Ze Ouyang

14:30-14:50

Revealing critical electron beam parameters with advanced coherent transition radiation techniques

Speaker

Maxwell LaBerge

14:50-15:10

Characterizing a Gas-Ionization Platform for Single-Shot Beam Diagnostics

Speaker

Travis Nichols

15:10-15:30

Design of a Compact Photoconductive Antenna for Direct Femtosecond-Micron Measurement of 3D Space-Charge Fields

Speaker

Sean OTool

15:30

16:00

A5-Working group # 5

Session | **Location:** Luskin, Ballroom C&D

16:00-16:20

Magnetic Field Measurements and Reconstruction of very Broadband Electron Spectrometer for Plasma Experiments

Speaker

Jack Phillips

16:20-16:40

Compact electron spectrometry for tens-of-GeV laser-plasma accelerators

Speaker

Rafal Zgadzaj

16:40–17:00

Calorimetry for Multi-GeV Wakefield Accelerators**Speaker**

José Franco Altamirano

17:00–17:20

Indirect Characterization of Photoinjector Parameters and their Correlations**Speaker**

David Garcia

17:20–17:40

Magnetic sextupoles for gamma and electron spectrometers**Speaker**

Brian Naranjo

17:40–18:00

Spectral deconvolution of compound x-ray distributions for use in a high-repetition facility.**Speaker**

Chris Armstrong

18:00

Thursday 30 July

13:30

A5-Working group # 5

Session | **Location:** Luskin, Optimist B

13:30-13:50

Emittance Growth and Sensitivity Analysis of a Transverse Deflecting Cavity-Based Dechirper

Speaker

Alex DeSimone

13:50-14:10

The EEX-enabled microbunching experiment at the Argonne Wakefield Accelerator

Speaker

Prof. James Rosenzweig

14:10-14:30

1-D plasma lens by laser-driven elongated wakefield.

Speaker

Apurva Gaikwad

14:30-14:50

A Multi-Mode RFQ for Dual-Species and Short-Pulse Beam Production

Speaker

Haoran Xu

14:50-15:10

Chirp control of plasma-accelerated electron bunches via wake depletion

Speaker

YUXUAN CAO

15:10-15:30

Laser Heater as a Beam Shaping Tool at FACET-II: From Microbunching Instability Suppression to Multi-Spike Current Profiles

Speaker

Anna Kinderman

15:30

16:00

A5-Working group # 5

Session | **Location:** Luskin, Optimist B

16:00-16:20

Analysis and mitigation of second-order effects in an asymmetric emittance exchange beamline

Speaker

Buse Naz Temizel Ozdemir

16:20-16:40

3D Simulation and Analysis of Coherent Synchrotron Radiation with Shielding

Speaker

Omkar Ramachandran

16:40–17:00

Interactive Simulated Beam Loss Diagnostics Enabled by a Location-of-Loss Surrogate Model**Speaker**

Christopher Pierce

17:00–17:20

Status and Development of tailored phase space correlation generation using transverse wigglers**Speaker**

Gwanghui Ha

17:20–17:40

Virtual diagnostic for phase space prediction and customization at FACET-II**Speaker**

Jinseo Park

18:00