



# AAC24 Advanced Accelerator Concepts Workshop

## Monday, 22 July 2024

**WG5 - room 260 (16:00 - 18:00)**

time	[id] title	presenter
16:00	[231] Modeling, Growth, and Characterization of Advanced Photocathode Materials at Northern Illinois University	CHUBENKO, Oksana
16:24	[180] Development of a High-Field X-band Photoemission RF Gun Powered by Short RF Pulses	CHEN, Gongxiaohui
16:48	[173] A high-intensity laser-based positron source	BULANOV, Stepan
17:12	[80] Production and detection of muons using electron beams from a Laser Plasma Accelerator	TERZANI, Davide
17:36	[224] Coherent synchrotron radiation simulation methods using cavity Green's functions	RAMACHANDRAN, Omkar

# Tuesday, 23 July 2024

## WG5 - room 260 (13:30 - 15:30)

time	[id] title	presenter
13:30	[84] Sub-THz passive detector performance evaluation with RadiaBeam photoinjector	KRAVCHENKO, Maksim
13:54	[177] Peering into electron beam 5D phase space with coherent optical transition radiation	LABERGE, Maxwell
14:18	[226] Development of an Electro-Optic Sampling Beam-Position Monitor at FACET-II	HANSEL, Claire
14:42	[146] Single-Shot Diagnosis of Electron Energy Evolution via Streaked Betatron X Rays in a Curved Laser Wakefield Accelerator	MA, Yong
15:06	[71] Non-invasive beam diagnostics using machine learning	WATT, Robbie

## WG5 - room 260 (16:00 - 18:00)

time	[id] title	presenter
16:00	[45] Efficient 6-dimensional phase space reconstructions from experimental measurements using generative machine learning	ROUSSEL, Ryan
16:24	[76] Measurement of CSR-affected beams using generative phase space reconstruction	GONZALEZ-AGUILERA, Juan Pablo
16:48	[229] Phase space reconstruction of downramp-injection LPA electron beam for modeling FEL operation	DOSS, Christopher
17:12	[82] Extreme focusing of high-energy beams using near-field coherent transition radiation	STOREY, Doug
17:36	[104] Modeling of a Laser-Assisted Bunch Compression Scheme for a Compact Free-Electron Laser	AL MARZOUK, Afnan

# Thursday, 25 July 2024

## WG5 - room 260 (16:00 - 18:00)

time	[id] title	presenter
16:00	[78] Applications of arbitrary correlation generation using transverse wigglers	HA, Gwanghui
16:24	[133] Coherent radiation from initially modulated beams using emittance exchange at the Argonne Wakefield Accelerator	ROSENZWEIG, James
16:48	[157] Ultra-high current designer beam generation via laser heater shaping at FACET-II	EMMA, Claudio
17:12	[100] Demonstration of Longitudinal Focal Stabilization on 100 TW Laser-Plasma Accelerator	JENSEN, Kyle
17:36	[139] Development of a non-linear plasma lens for achromatic transport	Dr DROBNIAK, P.