3rd ICFA Beam Dynamics Mini-Workshop on Machine Learning Applications for Particle Accelerators (Chicago, IL - Palmer House Hilton)



Report of Contributions

Contribution ID: 57 Type: not specified

Registration

Tuesday, 1 November 2022 08:00 (45 minutes)

Contribution ID: 58 Type: not specified

Meet & Greet

Tuesday, 1 November 2022 18:00 (2 hours)

3rd ICFA Beam D ... / Report of Contributions

Sessions

Contribution ID: 59 Type: not specified

Sessions

Contribution ID: 60 Type: not specified

Poster Sessions

3rd ICFA Beam D ... / Report of Contributions

Sessions

Contribution ID: 61 Type: not specified

Sessions

Contribution ID: 62 Type: not specified

Sessions and Close Out

Contribution ID: 63 Type: not specified

Tour of FNAL

Friday, 4 November 2022 12:00 (5 hours)

Tour Details Tour Sign-up Form

Contribution ID: 64 Type: not specified

Tutorials - Prep and Instructions

Tuesday, 1 November 2022 08:45 (15 minutes)

Contribution ID: 65 Type: not specified

ALCF - HPC for AI/ML (Corey J. Adams, ANL)

Tuesday, 1 November 2022 13:25 (45 minutes)

Presenter: ADAMS, Corey (ANL)

Contribution ID: 66 Type: not specified

Tutorial on Bayesian Optimization

Tuesday, 1 November 2022 09:00 (45 minutes)

Presenter: ROUSSEL, Ryan (SLAC)

Contribution ID: 67 Type: not specified

Tutorial on Anomaly Detection

Tuesday, 1 November 2022 10:05 (45 minutes)

Presenter: SULC, Antonin (MCS (MCS Fachgruppe 4))

Contribution ID: 68 Type: not specified

Tutorial on Reinforcement Learning (Speaker: Kishansingh Rajput, JLAB)

Tuesday, 1 November 2022 11:10 (45 minutes)

Contribution ID: 69 Type: not specified

Tutorial on Uncertainty Quantification

Tuesday, 1 November 2022 14:10 (45 minutes)

Presenter: ISENBERG, Natalie (Computational Science Initiative)

Xopt

Contribution ID: 70 Type: not specified

Xopt

Tuesday, 1 November 2022 15:15 (10 minutes)

Presenter: ROUSSEL, Ryan (SLAC)

Session Classification: Collaborations

Badger

Contribution ID: 71 Type: not specified

Badger

Tuesday, 1 November 2022 15:25 (10 minutes)

Presenter: ZHANG, Zhe (SLAC)

Session Classification: Collaborations

Contribution ID: 72 Type: not specified

GeOFF and COI

Tuesday, 1 November 2022 15:35 (10 minutes)

Presenter: MADYSA, Nico (CERN)

Session Classification: Collaborations

Contribution ID: 73 Type: not specified

RadiaSoft Tools (RadiaSoft Team, RadiaSoft)

Tuesday, 1 November 2022 15:45 (10 minutes)

Session Classification: Collaborations

Contribution ID: 74 Type: **not specified**

Open Discussion

Tuesday, 1 November 2022 15:55 (20 minutes)

Session Classification: Collaborations

Xopt

Contribution ID: 75 Type: not specified

Xopt

Tuesday, 1 November 2022 16:35 (10 minutes)

Presenter: ROUSSEL, Ryan (SLAC)

Session Classification: Collaborations

Badger

Contribution ID: 76 Type: not specified

Badger

Tuesday, 1 November 2022 16:45 (10 minutes)

Presenter: ZHANG, Zhe (SLAC)

Session Classification: Collaborations

Contribution ID: 77 Type: **not specified**

GeOFF and COI

Tuesday, 1 November 2022 16:55 (10 minutes)

Presenter: MADYSA, Nico (CERN)

Session Classification: Collaborations

Contribution ID: 78 Type: not specified

RadiaSoft Tools (RadiaSoft Team, RadiaSoft)

Tuesday, 1 November 2022 17:05 (10 minutes)

Session Classification: Collaborations

Contribution ID: 79 Type: not specified

Open Discussion

Tuesday, 1 November 2022 17:15 (20 minutes)

Session Classification: Collaborations

Contribution ID: 80 Type: not specified

Registration (Coffee and Snacks will be available)

Wednesday, 2 November 2022 08:00 (30 minutes)

Welcome

Contribution ID: 81 Type: not specified

Welcome

Wednesday, 2 November 2022 08:30 (25 minutes)

Contribution ID: 82 Type: not specified

Bayesian Algorithm Execution for Tuning Particle Accelerator Emittance with Partial Measurements

Wednesday, 2 November 2022 08:55 (25 minutes)

Presenter: MISKOVICH, Sara (staff@stanford.edu;member@stanford.edu)

Session Classification: Bayesian Optimization (Session Moderator: Andrea Santamaria Garcia, Karlsruhe Institute of Technology)

Contribution ID: 83 Type: not specified

Machine Learning Tools to support the ATLAS Ion Linac Operations at Argonne

Wednesday, 2 November 2022 09:20 (25 minutes)

Presenter: MARTINEZ-MARIN, Jose L. (member@anl.gov)

Session Classification: Bayesian Optimization (Session Moderator: Andrea Santamaria Gar-

cia, Karlsruhe Institute of Technology)

Contribution ID: 84 Type: not specified

Bayesian Optimization for Trajectory Alignment at LEReC

Wednesday, 2 November 2022 09:45 (25 minutes)

Presenter: GAO, Yuan

Session Classification: Bayesian Optimization (Session Moderator: Andrea Santamaria Gar-

cia, Karlsruhe Institute of Technology)

Contribution ID: 85 Type: not specified

Machine Learning for Slow Spill Regulation in the Fermilab Delivery Ring

Wednesday, 2 November 2022 10:40 (25 minutes)

Presenter: THIEME, Mattson (NorthWestern)

Session Classification: Reinforecement Learning (Session Moderator: Christine Sweeney,

LANL)

Contribution ID: 86 Type: not specified

Reinforcement Learning Applied to Optimization of LHC Beams in the CERN Proton Synchrotron

Wednesday, 2 November 2022 11:05 (25 minutes)

Presenter: WULFF, Joel Axel (CERN)

Session Classification: Reinforecement Learning (Session Moderator: Christine Sweeney,

LANL)

Contribution ID: 87 Type: not specified

A Closer Look at Reinforcement Learning for Beam-Based Feedback Systems

Wednesday, 2 November 2022 11:30 (25 minutes)

Presenter: GRECH, Leander (Univ. of Malta)

Session Classification: Reinforecement Learning (Session Moderator: Christine Sweeney,

LANL)

Contribution ID: 88 Type: not specified

SRF Cavity Fault Classification and Prediction at Jefferson Lab

Wednesday, 2 November 2022 13:25 (25 minutes)

Presenter: TENNANT, Chris (Jefferson Laboratory)

Session Classification: Prognostics (Session Moderator: Verena Kain, CERN)

Contribution ID: 89 Type: not specified

Beam-Based RF Station Fault Identification at the Linac Coherent Light Source

Wednesday, 2 November 2022 13:50 (25 minutes)

Presenter: HUMBLE, Ryan (Stanford)

Session Classification: Prognostics (Session Moderator: Verena Kain, CERN)

Contribution ID: 90 Type: not specified

Status of Data-Driven Bea Trajectory Anomaly Detection

Wednesday, 2 November 2022 14:15 (25 minutes)

Presenter: SULC, Antonin (MCS (MCS Fachgruppe 4))

Session Classification: Prognostics (Session Moderator: Verena Kain, CERN)

Contribution ID: 91 Type: not specified

Disentangling Beam Losses in the Fermilab Main Injector Enclosure Using Real-time Edge Al

Wednesday, 2 November 2022 14:40 (25 minutes)

Presenter: HAZELWOOD, Kyle (FNAL)

Session Classification: Prognostics (Session Moderator: Verena Kain, CERN)

Contribution ID: 92 Type: not specified

Uncertainty Aware Anomaly Detection to Predict Errant Beam Pulses and GradCAM Analysis

Wednesday, 2 November 2022 15:35 (25 minutes)

Presenter: RAJPUT, Kishansingh (Jefferson Lab)

Session Classification: Prognostics (Session Moderator: Verena Kain, CERN)

Contribution ID: 93 Type: not specified

Al for Muon Collider Design: Progress and Plans

Wednesday, 2 November 2022 16:00 (25 minutes)

Presenter: FOL, Elena (member@cern.ch)

Contribution ID: 94 Type: not specified

RadiaSoft Tools (RadiaSoft Team, RadiaSoft)

Wednesday, 2 November 2022 16:25 (20 minutes)

Presenter: EDELEN, Jonathan (RadiaSoft, LLC)

Contribution ID: 95 Type: not specified

Poster Session - 4th Floor

Contribution ID: 96 Type: not specified

Data-Driven Chaos Indictor for Nonlinear Dynamics and Applications on Storage Ring Lattice Design

Thursday, 3 November 2022 08:30 (25 minutes)

Presenter: RAINER, Robert (BNL)

Session Classification: Modeling (Session Moderator: Chris Tennant, JLAB)

Contribution ID: 97 Type: not specified

Towards End-to-End Differentiable Accelerator Modeling

Thursday, 3 November 2022 08:55 (25 minutes)

Presenter: GONZALEZ-AGUILERA, Juan Pablo (University of Chicago)

Session Classification: Modeling (Session Moderator: Chris Tennant, JLAB)

Contribution ID: 98 Type: not specified

Experience with Integrated Systems for Online Physics Modeling, Adaptive ML Modeling, and Model-Based Control

Thursday, 3 November 2022 09:20 (25 minutes)

Presenter: EDELEN, Auralee (SLAC)

Session Classification: Modeling (Session Moderator: Chris Tennant, JLAB)

Contribution ID: 99 Type: not specified

Luminosity Tuning for Future Electron Ion Collider

Thursday, 3 November 2022 09:45 (25 minutes)

Presenter: XU, Derong (Brookhaven National Laboratory)

Session Classification: Modeling (Session Moderator: Chris Tennant, JLAB)

Contribution ID: **100** Type: **not specified**

Application of Natural Language Processing on Electronic Logbooks

Thursday, 3 November 2022 10:40 (25 minutes)

Presenter: MALDONADO, Jennefer (Brookhaven National Laboratory)

Session Classification: Facility (Session Moderator: Francesco Maria Velotti, CERN)

Contribution ID: **101** Type: **not specified**

Towards (more) autonomous accelerators - Status and Vision at CERN

Thursday, 3 November 2022 11:05 (25 minutes)

Presenter: KAIN, Verena (CERN)

Session Classification: Facility (Session Moderator: Francesco Maria Velotti, CERN)

Contribution ID: 102 Type: not specified

How to get ML into the Control Room - the CERN ML Frameworks

Thursday, 3 November 2022 11:30 (25 minutes)

Presenter: MADYSA, Nico (member@cern.ch)

Session Classification: Facility (Session Moderator: Francesco Maria Velotti, CERN)

Contribution ID: 103 Type: not specified

Data Analysis and Control of an MeV Ultrafast Electron Diffraction System Using Machine Learning

Thursday, 3 November 2022 13:25 (25 minutes)

Presenter: BOLIN, Trudy (UNM)

Session Classification: Facility (Session Moderator: Francesco Maria Velotti, CERN)

Contribution ID: 104 Type: not specified

Machine Learning for Tuning, Prediction, and Control at the KIT electron accelerators

Thursday, 3 November 2022 13:50 (25 minutes)

Presenter: SANTAMARIA GARCIA, Andrea (Karlsruhe Institute of Technology)

Session Classification: Optimization (Session Moderator: Hirokazu Maesaka, RIKEN Spring-

8 Center)

Contribution ID: 105 Type: not specified

Towards Linac RF Optimization with Machine Learning

Thursday, 3 November 2022 14:15 (25 minutes)

Presenter: SHARANKOVA, Ralitsa (FNAL)

Session Classification: Optimization (Session Moderator: Hirokazu Maesaka, RIKEN Spring-

8 Center)

Contribution ID: 106 Type: not specified

ID Orbit Compensation with Neural Networks for PETRA III

Thursday, 3 November 2022 14:40 (25 minutes)

Presenter: VEGLIA, Bianca (DESY)

Session Classification: Optimization (Session Moderator: Hirokazu Maesaka, RIKEN Spring-

8 Center)

Contribution ID: 107 Type: not specified

Recent Progress on ML-based Optimization and anomaly prediction at APS

Thursday, 3 November 2022 15:35 (25 minutes)

Presenter: KUKLEV, Nikita (ANL)

Session Classification: Optimization (Session Moderator: Hirokazu Maesaka, RIKEN Spring-

8 Center)

Contribution ID: 108 Type: not specified

Phase Space Reconstruction from Accelerator Beam Measurements Using Neural Networks and Differentiable Simulations

Thursday, 3 November 2022 16:00 (25 minutes)

Presenters: ROUSSEL, Ryan (SLAC National Laboratory); ROUSSEL, Ryan (SLAC)

Session Classification: Analysis (Session Moderator: Raimund Kammering, DESY)

Contribution ID: 109 Type: not specified

Improving Neural Networks Predictions using Physics - PINN for the CERN Accelerators

Thursday, 3 November 2022 16:25 (25 minutes)

Presenter: VELOTTI, Francesco Maria (CERN)

Session Classification: Analysis (Session Moderator: Raimund Kammering, DESY)

Contribution ID: 110 Type: not specified

Transverse 2D Phase-Space Tomography Using BPMs

Thursday, 3 November 2022 16:50 (25 minutes)

 $\textbf{Presenter:} \quad \text{HWANG, Kilean (member@msu.edu; faculty@msu.edu; employee@msu.edu)}$

Session Classification: Analysis (Session Moderator: Raimund Kammering, DESY)

Contribution ID: 111 Type: not specified

Simulation Studies and Machine Learning Applications for Orbit Correction at the Alternating Gradient Syndhrotron

Thursday, 3 November 2022 17:15 (25 minutes)

Presenters: LIN, Lucy (Cornell University); LIN, Weijian (Cornell Univ.)

Session Classification: Analysis (Session Moderator: Raimund Kammering, DESY)

Contribution ID: 112 Type: not specified

Modeling, Affiliation

Friday, 4 November 2022 08:30 (15 minutes)

Session Classification: Summaries - Modeling & Anallysis Summary

Contribution ID: 113 Type: not specified

Analysis Affiliation

Friday, 4 November 2022 08:45 (15 minutes)

Session Classification: Summaries - Modeling & Anallysis Summary

Contribution ID: 114 Type: not specified

Opt, Affiliation

Friday, 4 November 2022 09:10 (15 minutes)

Session Classification: Summaries - Optimization Summary

Contribution ID: 115 Type: not specified

RL, Affiliation

Friday, 4 November 2022 09:25 (15 minutes)

Session Classification: Summaries - Optimization Summary

Contribution ID: 116 Type: not specified

BO, Affiliation

Friday, 4 November 2022 09:40 (15 minutes)

Session Classification: Summaries - Optimization Summary

Contribution ID: 117 Type: not specified

Facility, Affiliation

Contribution ID: 118 Type: not specified

Facility, Affiliation

Friday, 4 November 2022 10:20 (15 minutes)

Session Classification: Facility & Prognostics Summary

Contribution ID: 119 Type: not specified

Prog, Affiliation

Friday, 4 November 2022 10:05 (15 minutes)

Session Classification: Facility & Prognostics Summary

Contribution ID: 120 Type: not specified

Future Workshop

Friday, 4 November 2022 10:45 (10 minutes)

Presenter: RATNER, Daniel (SLAC National Laboratory)

Contribution ID: 121 Type: not specified

Concluding Remarks

Friday, 4 November 2022 10:55 (10 minutes)

Presenters: BROWN, Kevin (C-AD); BIEDRON, Sandra (Univ. of NM); BIEDRON, Sandra (Element Aero)

Contribution ID: 122 Type: not specified

test

Session Classification: Analysis (Session Moderator: Raimund Kammering, DESY)

Contribution ID: 123 Type: not specified

Open Discussion

Session Classification: Bayesian Optimization (Session Moderator: Andrea Santamaria Garcia, Karlsruhe Institute of Technology)

Contribution ID: 124 Type: not specified

Open Discussion

Friday, 4 November 2022 09:55 (10 minutes)

Session Classification: Summaries - Optimization Summary

Contribution ID: 125 Type: not specified

Open Discussion

Friday, 4 November 2022 09:00 (10 minutes)

Session Classification: Summaries - Modeling & Anallysis Summary

Contribution ID: 126 Type: not specified

Open Discussion

Friday, 4 November 2022 10:35 (10 minutes)

Session Classification: Facility & Prognostics Summary

Contribution ID: 127 Type: Poster

ML Experience gained at BESSY II

Presenter: SCHNIZER, Pierre (BESSY II)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 128 Type: Poster

Beam Loss Disentangling Model Hyperparameter Tuning Methods

Wednesday, 2 November 2022 16:47 (2 minutes)

Presenter: JONES, Isaiah (Northwestern University)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 129 Type: Poster

Graph Embeddings for CEBAF Operations: Progress and Future Plans

Wednesday, 2 November 2022 16:49 (2 minutes)

Presenter: TENNANT, Chris (Jefferson Laboratory)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 130 Type: Poster

Emittance Measurement Speedup with Machine Learning at the Coherent electron Cooling Experiment at RHIC

Wednesday, 2 November 2022 16:51 (2 minutes)

Presenter: LIN, Weijian (Cornell Univ.)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 131 Type: Poster

Machine Learning for Beam Emittance Measurement and Aberration Correction of an Electron Microscope

Wednesday, 2 November 2022 16:53 (2 minutes)

Presenter: MA, Desheng (member@cornell.edu;alum@cornell.edu;student@cornell.edu)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 132 Type: Poster

Enhancing UED temporal resolution with time-stamping virtual diagnostics

Wednesday, 2 November 2022 16:55 (2 minutes)

Presenter: CROPP, FREDERICK (UCLA)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 133 Type: Poster

Analysis and Visualisation of Transverse beam properties at the European XFEL

Wednesday, 2 November 2022 16:57 (2 minutes)

Presenter: KAMMERING, Raimund (Deutsches Elektronen-Synchrotron DESY)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 134 Type: Poster

Muon monitor signal to predict NuMI beam parameters and horn current by applying Machine Learning techniques

Wednesday, 2 November 2022 16:59 (2 minutes)

Presenter: WICKREMASINGHE, Don Athula

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 135 Type: Poster

Relating Initial Distribution to Beam Loss on the Front End of a Heavy-Ion Linac Using Machine Learning

Wednesday, 2 November 2022 17:01 (2 minutes)

Presenter: TRAN, Anthony (student@msu.edu;member@msu.edu)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 136 Type: Poster

Machine learning-based surrogate model construction for optics matching at the European XFEL

Wednesday, 2 November 2022 17:03 (2 minutes)

Presenter: ZHU, Zihan (DESY)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 137 Type: Poster

An Efficient Classifier-Based Surrogate Assisted Evolutionary Algorithm

Wednesday, 2 November 2022 17:05 (2 minutes)

 $\textbf{Presenter:} \ \ \textbf{PIERCE}, \textbf{Christopher (member@cornell.edu;alum@cornell.edu;student@cornell.edu)}$

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 138 Type: Poster

Image Segmentation for Automated Sample Alignment in Neutron Scattering Experiments

Wednesday, 2 November 2022 17:07 (2 minutes)

Presenter: HENDERSON, M. (RadiaSoft, LLC)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 139 Type: Poster

Optimization of dynamic aperture for the Electron-Ion Collider

Wednesday, 2 November 2022 17:09 (2 minutes)

Presenter: MARX, Daniel

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 140 Type: Poster

Data-driven modelling of laser-plasma experiments enabled by large datasets

Presenter: ANTOINE, Andre (University of Michigan)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 141 Type: Poster

Updates on the surrogate model design for MUED

Wednesday, 2 November 2022 17:13 (2 minutes)

Presenter: SOSA, Salvador (UNM)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 142 Type: Poster

Prospects for Machine Learning and Pulse Shaping in the Scorpius Accelerator

Wednesday, 2 November 2022 17:15 (2 minutes)

Presenter: SCOTT, E.R. (NNSS)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 143 Type: Poster

Exploring and Applying Different Machine Learning Techniques in a Synchrotron

Wednesday, 2 November 2022 17:17 (2 minutes)

Co-author: BROWN, Kevin (C-AD)

Presenter: HUANG, Bohong (Stony Brook University)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 144 Type: Poster

Design Optimization and In Situ Surrogate Modeling Activities in the Beam, Plasma & Accelerator Simulation Toolkit (BLAST)

Presenter: HUEBL, Alex (LBNL)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 145 Type: Poster

Neural Network Surrogate Priors for Efficient Bayesian Optimization

Wednesday, 2 November 2022 17:21 (2 minutes)

Presenter: ROUSSEL, Ryan (SLAC National Laboratory)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 146 Type: Poster

Longitudinal Phase Space Manipulation at the LCLS using Neural Networks and Bayesian Optimization

Wednesday, 2 November 2022 17:23 (2 minutes)

Presenter: EDELEN, Auralee (SLAC)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 147 Type: Poster

Learning-based Optimisation of Particle Accelerators Under Partial Observability Without Real-World Training

Wednesday, 2 November 2022 17:25 (2 minutes)

Presenter: KAISER, Jan (Deutsches Elektronen-Synchrotron DESY)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 148 Type: Poster

APPLICATIONS OF MACHINE LEARNING IN PHOTO-CATHODE INJECTORS

Wednesday, 2 November 2022 17:27 (2 minutes)

Presenter: ASLAM, Aasma

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 149 Type: Poster

Xopt: A Simplified Framework for Optimization of Arbitrary Problems using Advanced Algorithms

Wednesday, 2 November 2022 17:29 (2 minutes)

Presenter: ROUSSEL, Ryan (SLAC National Laboratory)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 150 Type: Poster

Fast THz Radiation Optimization for Linear Accelerator using Surrogate Model

Wednesday, 2 November 2022 17:31 (2 minutes)

Presenter: XU, Chenran (member@kit.edu;employee@kit.edu)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 151 Type: Poster

Automatic Optimization of X-ray Free-Electron Laser at SACLA

Wednesday, 2 November 2022 17:33 (2 minutes)

Presenter: MAESAKA, Hirokazu (Spring8)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 152 Type: Poster

A Smart Alarm for the CEBAF Injector

Wednesday, 2 November 2022 17:35 (2 minutes)

Presenter: TENNANT, Chris (Jefferson Laboratory)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 153 Type: Poster

Continuous Anomaly Detection and Labeling for the Fermilab Linac

Wednesday, 2 November 2022 17:37 (2 minutes)

Presenter: ST. JOHN, Jason (Fermilab)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 154 Type: Poster

BPM measurement prediction based on HOM signals using Machine Learning

Wednesday, 2 November 2022 17:11 (2 minutes)

Presenter: DIAZ CRUZ, Jorge (University of New Mexico)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 155 Type: Poster

Classification and Prediction of Superconducting Magnet Quenches

Wednesday, 2 November 2022 16:45 (2 minutes)

Presenter: CURTIS-EINSTEIN, Joshua (RadiaSoft, LLC)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 156 Type: Poster

Apply Machine Learning in Orbit Control and Accelerator Stabilization

Wednesday, 2 November 2022 17:39 (2 minutes)

Presenter: DONG, Zeyu (Stony Brook University)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 157 Type: Poster

Machine Learning to Support the ATLAS Linac Operations at Argonne

Wednesday, 2 November 2022 17:41 (2 minutes)

Presenter: MUSTAPHA, Brahim (ANL)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 158 Type: Poster

Design Optimization and In Situ Surrogate Modeling Activities in the Beam, Plasma & Accelerator Simulation Toolkit (BLAST)

Wednesday, 2 November 2022 17:43 (2 minutes)

Presenter: HUEBL, Axel (Lawrence Berkeley National Laboratory)

Session Classification: Poster Session (cold drinks and snacks)

Contribution ID: 159 Type: Poster

Data-Driven Chaos Indicators for Beam Dynamics

Wednesday, 2 November 2022 17:45 (2 minutes)

Presenter: RAINER, Robert (Brookhaven National Laboratory)

Session Classification: Poster Session (cold drinks and snacks)