

Machine Learning Collaboration Meeting



Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome & Introduction

Wednesday, 21 August 2024 08:30 (30 minutes)

Presenter: BROWN, Kevin (C-AD)

Contribution ID: 2

Type: **not specified**

Overview of polarized proton acceleration and highlights of the current RHIC run

Wednesday, 21 August 2024 09:00 (45 minutes)

Presenter: SCHOEFER, Vincent (CAD)

Contribution ID: 3

Type: **not specified**

Status of accurate accelerator models for L2B, Booster, BtL, and AGS

Wednesday, 21 August 2024 09:45 (45 minutes)

Presenter: HAMWI, Eiad (Cornell University)

Contribution ID: 4

Type: **not specified**

Experimental examples of Bayesian Optimization at BNL

Wednesday, 21 August 2024 11:00 (45 minutes)

Presenter: LIN, Lucy (Cornell University)

Contribution ID: 5

Type: **not specified**

Overview of Uncertainty Quantification and application to p-p acceleration

Wednesday, 21 August 2024 16:00 (30 minutes)

Presenter: URBAN, Nathan (Brookhaven National Laboratory)

Contribution ID: 6

Type: **not specified**

Basis of Bayesian Optimization - connecting theory to experiment

Wednesday, 21 August 2024 16:30 (30 minutes)

Presenter: WANG, Yinan

Contribution ID: 7

Type: **not specified**

Connecting Bmad and BNL control systems - Digital Twin preparations

Thursday, 22 August 2024 09:15 (45 minutes)

Presenter: HOCK, Kiel (Brookhaven National Laboratory)

Contribution ID: 8

Type: **not specified**

Application options of the JLAB approach to reinforcement learning

Thursday, 22 August 2024 08:30 (45 minutes)

Presenter: KASPARIAN, Armen

Contribution ID: 9

Type: **not specified**

Applications of international ML experiences in the Linac to RHIC chain

Thursday, 22 August 2024 10:00 (45 minutes)

Presenter: EDELEN, Auralee (SLAC/Stanford)

Contribution ID: **10**

Type: **not specified**

Bmad Julia - what new code do ML applications need

Thursday, 22 August 2024 11:00 (45 minutes)

Presenter: SAGAN, David (faculty@cornell.edu;member@cornell.edu;alum@cornell.edu;employee@cornell.edu)

Contribution ID: **11**

Type: **not specified**

Improved emittance measurements

Thursday, 22 August 2024 11:45 (45 minutes)

Presenter: EDELEN, Jon (RadiaSoft)

Contribution ID: 12

Type: **not specified**

Steps toward digital twins

Thursday, 22 August 2024 13:30 (30 minutes)

Presenter: LIN, Lucy (Cornell University)

Contribution ID: 13

Type: **not specified**

Summary, and brain storming

Thursday, 22 August 2024 14:00 (45 minutes)

Presenter: HOFFSTAETTER, Georg (Cornell)

Contribution ID: 14

Type: **not specified**

Status of bunch-merge simulations and experiments using Reinforcement Learning

Wednesday, 21 August 2024 11:45 (45 minutes)

Presenter: GAO, Yuan