

Accelerator and Detector Control: Introduction

Thomas Britton (JLab) and Benjamin Nachman (LBNL)

Topics

- 1. Data Quality**
 - a. Anomaly detection**
- 2. Online Calibration and Analysis**
 - a. Low-level calibrations (readout level and earlier)**
 - b. High-level calibrations (composite objects)**
 - c. Real time analysis**
- 3. Trigger**
 - a. Rate control and allocation**
 - b. ML in the trigger**
 - c. Optimizing triggers**
- 4. Accelerator / Detector Feedback**

Day 3 morning

Conveners: Benjamin Nachman, Thomas Britton (JLab)

10:00 **Accelerator and Detector Control: Introduction**

Speakers: Benjamin Nachman, Thomas Britton (JLab)

10:05 **Anomaly detection/Online data quality monitoring**

Speaker: Kishansingh Rajput (JLab)

10:27 **Online low-level calibration and operational conditions**

Speaker: Torri Jeske (JLab)

10:49 **Online high-level calibration and analysis**

Speaker: Mike Williams (MIT)

11:15 **break**

11:30 **Trigger rate control and allocation**

Speaker: David Miller (University of Chicago)

11:52 **Machine Learning in trigger deployment**

Speaker: Nhan Tran (Fermilab)

12:14 **Accelerator control**

Speaker: Aurelee Edelen (SLAC)

12:36 **Discussion**

Live notes:

<https://docs.google.com/document/d/18-IHRK43APHDOUhpXW74VRvu4tD4zBhqyqQ7VmT13z0/edit>