

# 4th ICFA Beam Dynamics Mini-Workshop on Machine Learning Applications for Particle Accelerators

Contribution ID: 91

Type: **Oral (16mins + 4 mins)**

## Predicting preventable (slow) trips at NSLS-II

*Thursday, March 7, 2024 9:20 AM (20 minutes)*

NSLS-II has been working with SLAC and Argonne on ML applications for improving accelerator reliability; specifically in predicting preventable (slow) trips & in using anomaly detection to identify most likely trip-causes to reduce recovery time. We are several years into the project, and already have positive results in the 'trip prevention' application.

### Primary Keyword

anomaly detection

### Secondary Keyword

### Tertiary Keyword

**Primary author:** SMITH, Reid (BNL)

**Presenter:** SMITH, Reid (BNL)

**Session Classification:** Anomaly Detection / Failure Prediction

**Track Classification:** Anomaly Detection / Failure Prediction