

Session Program

May 19 – 21, 2025



ML4FE Workshop, University of Hawaii

Physics, Contributed 2

Tue, May 20

10:45 AM

Physics, Contributed 2

Session | Location: | Convener: Dylan Rankin

10:45 – 11:00 Decision trees on FPGA to classify, estimate, anomaly detect

Speaker
Tae Min Hong

11:00 – 11:15
Implementation of small-scale ML in Belle II Chamber Drift Chamber Front-End Electronics for cross-talk noise reduction

Speaker
Yun-Tsung Lai

11:15 – 11:30
Co-design of artificial neural networks for real-time feature extraction in front-end ASICs

Speakers
Prashansa Mukim, Yihui Ren

11:30 – 11:45
Physics-Informed Machine Learning for Accelerated Discovery and Dynamics Analysis in Ultrafast X-Ray Diffraction

Speaker
Huaijin Chen

12:00 PM

11:45 – 12:00 Discussion/Overflow