

Session Program

14 October 2024

A3D3 All-hands meeting

Afternoon Plenary

Convergence Center @ Purdue University, Innovation Room
101 Foundry Dr, West Lafayette, IN 47906

Sunday 13 October

13:45

Afternoon Plenary: Postbac Talks

Session |

Location: Convergence Center @ Purdue University, Innovation Room, 101 Foundry Dr, West Lafayette, IN 47906

13:45-13:55

Postbac research experience: light from black holes and other multi-messenger astronomy

Speaker

Kira Nolan

13:55-14:05

Attention at Silicon Speed: Towards Efficient Transformers on FPGAs

Speaker

Rian Flynn

14:05-14:15

Postbac Research Experience: Multimodal Classification of Astronomical Transients

Speaker

Alexandra Junell Brown

14:15

14:15

Afternoon Plenary: Trainee-led Talks: Part 1

Session |

Location: Convergence Center @ Purdue University, Innovation Room, 101 Foundry Dr, West Lafayette, IN 47906

14:15-14:28

Implementation of `tracc` as-a-service

Speaker

Miles Cochran-Branson

14:28-14:41

Channel tagging: identifying events with supernova pointing information

Speaker

Janina Dorin Hakenmueller

14:41-14:54

Combining Neural Networks for IceCube DeepCore Reconstruction and Classification Tasks

Speaker

Josh Peterson

14:54-15:07

Real-time Anomaly Detection at the CMS L1 Trigger

Speaker

Melissa Quinnan

15:10

15:30

Afternoon Plenary: Trainee-led Talks: Part II

Session |

Location: Convergence Center @ Purdue University, Innovation Room, 101 Foundry Dr, West Lafayette, IN 47906

15:30-15:43

Neural Architecture Codesign for Fast Physics Applications

Speaker
Jason Weitz

15:43-15:56

ConNAS4ML: Gradient-Based NAS Framework with Hardware Constraints for hls4ml

Speaker
Chijui Chen

15:56-16:09

Autoencoders for Anomaly Detection and Output Reduction on the Edge (AADORE)

Speaker
Alexander Yue

16:09-16:22

Closed-loop Brain Stimulation in NHPs using hardware-accelerated Machine Learning

Speaker
Rajeev Botadra

16:30

16:30

17:15

Afternoon Plenary: Trainee-led Town Hall (with PIs)

Session |

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