

Session Program

November 28, 2023 to December 1, 2023



AI4EIC 2023 Annual Workshop

AI/ML for ePIC and Beyond

Catholic University of America, Washington D.C., Caldwell auditorium

Tue, November 28

10:00 AM

AI/ML for ePIC and Beyond

Session | **Conveners:** Anselm Vossen, Derek Anderson

10:00 - 10:15 AM **Introduction: ePIC Overview**

Speaker

John Lajoie

10:15 - 10:40 AM

Performance optimization for a scintillating glass electromagnetic calorimeter at EIC

Speaker

Dmitrii Kalinkin

10:40 - 11:05 AM

Object Condensation for Track Building in a Backward Electron Tagger at the EIC

Speaker

Dr Simon Gardner

11:05 - 11:20 AM **Coffee break**

11:20 - 11:45 AM **The Optimal use of Segmentation for Sampling Calorimeters**

Speaker

Fernando Torales Acosta

11:45 AM - 12:10 PM **AID(2)E: AI-Assisted Detector Design at EIC**

Speaker

Cristiano Fanelli

12:10 - 12:55 PM **Flash Talks**

Subcontributions

Photon Classification with Gradient Boosted Trees at CLAS12

Speaker

Gregory Matousek

ML4FGPA

Speaker

Dmitry Romanov

ELUQuant: Event Level Uncertainty Quantification

Speaker

James Giroux

Improving Λ Signal Extraction with Domain Adaptation via Normalizing Flows

Speaker

Rowan Kelleher

Machine-Learning for Roman Pots Reconstruction

Speaker

David Ruth

1:00 PM

12:55 - 1:00 PM

Discussion