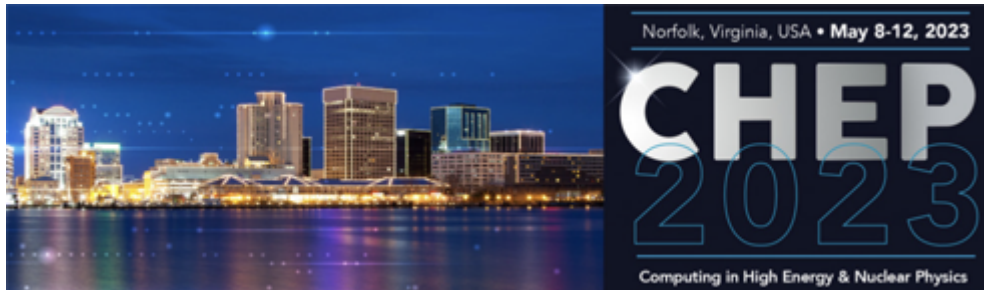


Session Program

May 8 - 12, 2023



26TH INTERNATIONAL CONFERENCE ON COMPUTING IN HIGH ENERGY & NUCLEAR PHYSICS (CHEP2023)

Track 3+9 Crossover

Norfolk Waterside Marriott
235 East Main Street Norfolk, VA 23510

Mon, May 8

2:00 PM

Track 3+9 Crossover: Simulation

Session |

Location: Norfolk Waterside Marriott, Chesapeake Meeting Room, 235 East Main Street, Norfolk, VA, 23510 |

Conveners: Bandieramonte, Marilena, VALLECORSIA, SOFIA

14:00 - 14:15

Development of particle flow algorithms based on Neural Network techniques for the IDEA calorimeter at future colliders

Speaker

DOnofrio, Adelina

14:15 - 14:30

PARSIFAL: parametrized simulation of triple-GEM and micro-RWELL response to a charged particle

Speaker

Farinelli, Riccardo

14:30 - 14:45

The AtlFast3, the ATLAS fast simulation tool in Run3

Speaker

Dr Faucci Giannelli, Michele

14:45 - 15:00

Simulation and Reconstruction of Photoelectric X-ray Polarimetry on LPD

Speaker

Dr Yi, Difan

15:00 - 15:15

The LHCb ultra-fast simulation option, Lamarr: design and validation

Speaker

Barbetti, Matteo

15:15 - 15:30

Generative Models for Fast Simulation of Electromagnetic and Hadronic Showers in Highly Granular Calorimeters

Speaker

Mr Gaede, Frank

3:30 PM

Thu, May 11

2:00 PM

Track 3+9 Crossover: FastSim

Session | **Location:** Norfolk Waterside Marriott, Marriott Ballroom I, 235 East Main Street Norfolk, VA 23510 |
Conveners: Wenzel, Sandro, Bandieramonte, Marilena

14:00 - 14:15 **Simulation of Hadronic Interactions with Deep Generative Models**

Speaker

Mr Pham, Tuan Minh

14:15 - 14:30

Generating Accurate Showers in Highly Granular Calorimeters Using Normalizing Flows

Speaker

Mr Buss, Thorsten

14:30 - 14:45

The CaloChallenge insights & findings

Speaker

Dr Faucci Giannelli, Michele

14:45 - 15:00

Fast and Accurate Calorimeter Simulation with Diffusion Models

Speaker

Amram, Oz

15:00 - 15:15

Transformers for Generalized Fast Shower Simulation

Speaker

Raikwar, Piyush

15:15 - 15:30

Refining fast simulation using machine learning

Speaker

Wolf, Moritz

3:30 PM