Session Program

6–10 Nov 2023

ML4Jets2023

Generative: Diffusion Models

DESY, Main Auditorium

Tuesday 7 November

13:45

Generative: Diffusion Models
Session | **Location:** DESY, Main Auditorium | **Convener:** Johnny Raine

13:45–14:00

Conditional Set-to-Set Generation for Fast Simulation using Diffusion and Graph-to-Graph Translation

Speaker
Nathalie Soybelman

14:00–14:15 **CaloGraph: Calorimeter simulation via Graph-based diffusion model**

Speaker
Dmitrii Kobylianskii

14:15–14:30 **High-Dimensional Diffusion Generative Models in Collider Physics**

Speaker
Vinicius Massami Mikuni

14:30–14:45 **CaloDiffusion with GLaM for High Fidelity Calorimeter Simulation**

Speaker
Kevin Pedro

14:45–15:00 **Diffusion Models for the LHC**

Speaker
Sofia Palacios Schweitzer

15:00–15:15

CaloClouds: Ultra-Fast Geometry-Independent Highly-Granular Calorimeter Simulation

Speaker
Erik Buhmann

15:15–15:30

CaloLatent: Score-based Generative Modelling in the Latent Space for Calorimeter Shower Generation

Speaker
Thandikire Madula

15:30