

Session Program

4-8 Nov 2024

ML4Jets2024

Event generation

LPNHE, Paris, France

Tuesday 5 November

10:50

Event generation: Monte Carlo

Session | Location: Salle séminaires | Convener: Ramon Winterhalder

10:50-11:10 **Exploring phase space with Flow Matching**

Speaker
Timo Janssen

11:10-11:30 **Differentiable MadNIS-Lite**

Speaker
Theo Heimel

11:30-11:50

Event Generation with Lorentz-Equivariant Geometric Algebra Transformers

Speaker
Jonas Simon Spinner

11:50-12:10

Classifying importance regions in Monte Carlo simulations with machine learning

Speaker
Raymundo Ramos

12:10

13:50

Event generation

Session | Location: Salle séminaires | Convener: Anna Hallin

13:50-14:10 **Data-driven hadronization models**

Speaker
Manuel Szwec

14:10-14:30 **Fast simulation of backgrounds at LHCb - a generalised tool**

Speaker
Alex Marshall

14:30-14:50

Generating particle-clouds with discrete features using Markov jump processes

Speaker
Dr Darius Faroughy

14:50-15:10

(R) Application of generative models for full-detector, whole-event simulated event generation and jet background subtraction

Speaker
Yeonju Go

15:30