

Session Program

13-15 Dec 2023

Workshop on Machine Learning and High-Energy Physics

Morning Session

Campus Akademie, Seminar room 1 + 2
Bäckerstrasse 13, 1010 Wien

Wednesday 13 December

09:15

Morning Session

Session | **Location:** Campus Akademie, Seminar room 1 + 2, Bäckerstrasse 13, 1010 Wien

09:15-10:00

Artificial Proto-Modelling: Building Precursors of a Next Standard Model from Simplified Model Results

Speaker

Wolfgang Waltenberger

10:00

10:30

Morning Session

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10:30-11:15

Optimal operation of cryogenic calorimeters through deep reinforcement learning

Speakers

Felix Wagner, Felix Wagner

11:15-12:00

Machine learning for modern radio surveys

Speaker

Lara Alegre

12:00

Thursday 14 December

09:00

Morning Session

Session | **Location:** Campus Akademie, Seminar room 1 + 2, Bäckerstrasse 13, 1010 Wien

09:15–10:00 **Tree boosting for learning EFT parameters**

Speaker

Dennis Schwarz

10:00

10:30

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10:30–11:15 **Generative Modelling of Calorimeter Showers and Particle Jets**

Speaker

Thorsten Lars Henrik Buss

11:15–12:00 **ML applications in searches for long-lived particles at CMS**

Speaker

Lisa Benato

12:00

Friday 15 December

09:00

Morning Session

Session | **Location:** Campus Akademie, Seminar room 1 + 2, Bäckerstrasse 13, 1010 Wien

09:00–09:45

High Multiplicity with JetGPT - LHC Event Generation with Autoregressive Transformers

Speaker

Jonas Simon Spinner

10:00

10:30

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10:30–11:15

(Direct) Diffusion for LHC Event Generation

Speaker

Sofia Palacios Schweitzer

11:15–12:00

Precision-Machine Learning for the Matrix Element Method

Speaker

Nathan Huetsch

13:30