

Session Program

21-25 Apr 2025

**Portorož 2025: Particle Physics from Early
Universe to Future Colliders**

Collider

Tuesday 22 April

09:10

Collider
Session

09:10–09:45 **Pushing the Frontiers: Precision and Discovery at the LHC**
Speaker
Aurelio Juste Rozas

09:45–10:07 **Anomaly detection for LHC searches**
Speaker
Barry Dillon

10:07–10:29 **SMEFT searches at the LHC and beyond**
Speaker
Luca Mantani

10:29

11:00

Collider
Session

11:00–11:22 **SMEFT and HEFT expansions and HH production**
Speaker
Ilaria Brivio

11:22–11:44 **How large can the light fermion Yukawa couplings be?**
Speaker
Nudžeim Selimović

11:44–12:06
Symmetry-restoring finite counter-terms of SMEFT four-fermion operator insertions at one-loop
Speaker
Mr Luiz Henrique Vale Silva

12:06

15:27

Collider
Session

15:27–15:49 **Evidence for new Higgs bosons at the Electroweak Scale**
Speaker
Andreas Crivellin

15:49

Wednesday 23 April

09:00

Collider

Session

09:00–09:22

Accuracy Complements Energy: Hunting for New Physics at FCC-ee

Speaker

Dr Benjamin Stefanek

09:22–09:44

Machine Learning for Hadronization

Speaker

Manuel Szewc

09:44–10:06

Enhancing DM searches at the LHC with Machine Learning

Speaker

Rafal Maselek

10:06–10:28

Do we know the sign of the gauge-Higgs coupling?

Speaker

Prof. Daniel Stolarski

10:28