Session Program

1-2 Oct 2024







Foundation Models for Science Mini Workshop Foundation Model MiniWorkshop

Tuesday 1 October

14:00 Foundation Model MiniWorkshop: Day 1 **Session** | **Location:** CERN, 354/1-019 14:00-14:10 Introduction **Speakers** Dr Gaia Grosso, Raghav Kansal 14:10-15:00 Towards Foundation Models in HEP with Self-Supervised Learning Speaker Michael Kagan 15:00 15:45 Foundation Model MiniWorkshop: Day 1 **Session** | **Location:** CERN, 354/1-019 15:45-16:30 Foundation models for HEP Speaker Philip Coleman Harris 16:30-17:30 Invisible Cities: Towards a multi-modal era of fundamental physics research

Foundation Models for Scientific Discovery in the Lab of the Future

18:30

Speaker Mariel Pettee

SpeakerPatrick Ruch

17:30-18:30

Wednesday 2 October

14:00

Foundation Model MiniWorkshop: Day 2 Session | Location: CERN, 40/S2-B01 - Salle Bohr 14:00-14:15 Introduction to Day 2 **Speakers** Dr Gaia Grosso, Raghav Kansal 14:15-15:00 Re-simulation-based self-supervised learning Speaker Benedikt Maier 15:00-15:45 Finetuning Foundation Models for Joint Analysis Optimization Speaker Nicole Michelle Hartman 15:45-16:00 **Coffe Break** 16:00-16:45 OmniJet-α: The first cross-task foundation model for particle physics Speaker Ioschka Birk 16:45-17:30 Foundation Models for Astrophysics and Representation Learning Speaker Leopoldo Sarra

17:30-18:30

OmniLearn: A Method to Simultaneously Facilitate All Jet Physics Tasks

Speaker

Vinicius Massami Mikuni

18:30-19:00 Summary and Roundtable

Speakers

Dr Gaia Grosso, Raghav Kansal

19:00