

Session Program

Jun 16 - 20, 2025



EUROPEAN AI FOR
FUNDAMENTAL PHYSICS
CONFERENCE
EuCAIFCon 2025

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Foundation Models

THotel, Cagliari, Sardinia, Italy
Via dei Giudicati, 66, 09131 Cagliari (CA), Italy

Tue, June 17

2:15 PM

Foundation Models

Session | Location: T3a | Convener: Lorenzo Moneta

2:15 - 2:35 PM

Large Physics Models: Towards a collaborative approach with Large Language Models and Foundation Models

Speaker

Sascha Caron

2:35 - 2:55 PM

LLM-based AI assistant for HEP data analysis

Speaker

Ke Li

2:55 - 2:58 PM

✂ Enhancing the development of Cherenkov Telescope Array control software with Large Language Models

Speaker

Dr Dmitriy Kostunin

2:58 - 3:01 PM

✂ BART-Lagrangian : When Transformers Write Particle Physics Lagrangians

Speaker

Yong Sheng Koay

3:01 - 3:04 PM

✂ Towards a Seismology Foundation Model

Speaker

Waleed Esmail

3:15 PM

Wed, June 18

4:30 PM

Foundation Models

Session | Location: T3a | Convener: Daniele Bonacorsi

4:30 - 4:33 PM

Interaction-Aware and Domain-Invariant Representation Learning for Inclusive Flavour Tagging

Speaker

Dr Quentin Führung

4:33 - 4:36 PM

Machine Learning for Enhanced $0\nu\beta\beta$ Searches in LEGEND

Speaker

Marta Ewelina Babicz

4:36 - 4:56 PM

SKATR: A Self-Supervised Summary Transformer for the Square Kilometer Array

Speaker

Ayodele Ore

4:56 - 5:16 PM

What is DIG-UM and how does it shape the advancement of AI in basic research

Speaker

Jan Steinheimer-Froschauer

5:30 PM