

Session Program

24-28 Aug 2026



EUROPEAN COALITION FOR AI
IN FUNDAMENTAL PHYSICS
CONFERENCE
EuCAIFCon 2026

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Hardware & Design

Kirchhoff Institute for Physics (KIP), Foyer
Im Neuenheimer Feld 227 69120 Heidelberg Germany

Wednesday 26 August

16:00

Hardware & Design

Session | **Location:** HS2 | **Convener:** Bjoern Malte Schaefer

16:00–16:08 **SHiP's Muon Shield Optimization with Machine Learning**

Speaker

Luis Felipe Cattelan

16:10–16:18 **Large language models for physics instrument design**

Speaker

Sara Zoccheddu

16:20–16:28

Differentiable simulation and optimization of superconducting quantum sensors

Speaker

Nathan Campioni

16:40–16:48

Transformer-Based Analysis for Next-Generation Compact Cherenkov Telescopes

Speaker

Elli Jobst

16:50–16:58

Geometry-resolved Characterization of a Dual-detector MA-XRF Scanner

Speakers

Ms Aleksandra Stojanović, Mr Dimitrije Pešić, Mr Janko Vukobratović

17:00–17:08

A Low-Latency Neural Network Trigger for SiPM-Based RICH Detectors

Speaker

Jesus Pena-Rodriguez

17:30