

Session Program

3 June 2025



bites of...
Foundation Models
for Science



Themes of discussion:

- Physics-inspired representations
- **LLMs for experiments**
- Applications to Run 3
- Training methods
- Alignment, interpretability
- Datasets and benchmarks

...and more!

Bites of FM4S: [2] LLMs for experiments in fundamental physics

Invited talks

Tuesday 3 June

15:00

Invited talks Session

15:00–15:20 **AccGPT: A Chatbot for CERN Internal Knowledge**

Speaker

Dr Florian Rehm

15:25–15:45 **chATLAS: An AI Assistant for the ATLAS Collaboration**

Speaker

Daniel Thomas Murnane

15:50–16:10 **LLM-based physics analysis assistant at BESIII**

Speakers

Beijiang Liu, Changzheng YUAN, Ke Li, Zhengde Zhang

16:15

16:30

Invited talks Session

16:30–16:50

Multi-Agent Research Validator & Enabler Using LLMs (MARVEL): Experiences from LIGO

Speaker

Nikhil Mukund

16:55–17:15 **The SpeakYSE: An Agentic LLM for Supernova Science**

Speaker

Alex Gagliano

17:20–17:40

Bridging LLMs and Scientific Infrastructure: A2rchi for Context-Aware Research Support

Speaker

Mariarosaria D'Alfonso

17:45