



Themes of discussion:

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

...and more!

Contribution ID: 7

Type: **not specified**

LLM-based physics analysis assistant at BESIII

Tuesday 3 June 2025 15:50 (20 minutes)

The data processing and analyzing is one of the main challenges at HEP experiments. To accelerate the physics analysis and drive new physics discovery, the rapidly developing Large Language Model (LLM) is the most promising approach, it have demonstrated astonishing capabilities in recognition and generation of text while most parts of physics analysis can be benefitted. In this talk we will discuss the construction of a dedicated intelligent agent, an AI assistant names Dr.Sai at BESIII based on LLM, the potential usage to boost hadron spectroscopy study, and the future plan towards a AI scientist.

Theme of discussion

LLMs for operations

Authors: LIU, Beijiang; YUAN, Changzheng; LI, Ke (Chinese Academy of Sciences (CN)); ZHANG, Zhengde (中国科学院高能物理研究所)

Presenters: LIU, Beijiang; YUAN, Changzheng; LI, Ke (Chinese Academy of Sciences (CN)); ZHANG, Zhengde (中国科学院高能物理研究所)

Session Classification: Invited talks