

Use Case: LLM Applications in Ground-Based Gamma Astronomy

Tuesday 30 September 2025 10:35 (10 minutes)

We present a multi-agent application for next-generation Cherenkov Telescope Array Observatory, designed to automate the generation of Pydantic Python models directly from free-text descriptions or structured files. It also explores the use of the multi-agent framework AutoGen, as well as minimal function tools available in new OpenAI interfaces, incorporating a feedback loop to verify and refine generated code before user presentation, streamlining the workflow for astrophysical data management. The app is baked with Blablador's GPT-OSS, as the best performing model for the task out of selected models.

Presenters: JONES, Elisa (DESY); KOSTUNIN, Dmitriy (DESY)

Session Classification: Talks and Presentations