



ID de Contribution: 24

Type: **Non spécifié**

Self-Driving Cosmological Laboratories

mardi 15 avril 2025 17:00 (25 minutes)

Generative AI is about to lead to a paradigm shift in the way we conduct research, with tremendous potential gains in productivity, robustness and discovery. We are developing multi-agent systems to automate and optimize scientific workflows in data analysis, with a focus on Cosmology. In this talk, we will present our prototype cmbagent, a pre-trained-LLM-based system capable of reproducing complex and state-of-the-art cosmological data analyses with minimal human input, built with ag2. Such systems offer a glimpse into the future of research, where the main task for human scientists will be the orchestration of self-driving laboratories.

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