AI AGENTIC ANALYSIS SYSTEMS · BIWEEKLY

Informal Meeting Agentic Analysis

Tuesday 27 October 2026 · 08:00 PT / 11:00 ET / 16:00 CET

indico.global/event/19584 · Slack #agentic-analysis · awesome-hep-agentic-analysis

Andrzej Novák
MIT

Artur Cordeiro Oudot Choi
University of Washington

Giordon Stark
University of Chicago

Haichen Wang
Berkeley Lab

Petra Maksimovic
Johns Hopkins University

RESOURCES

Free model access for researchers

Programme	Who applies	What you get	Cost · status	Catch
NRP-managed LLMs	Anyone with an NRP account	Open weights; OpenAI and Claude Code APIs	Free · open	Open weights only; fair-use limits
Claude Team Plan for Scientists	A PI; up to 25 lab members	Claude Team incl. Claude Code	Free; premium $15/mo	Students via a PI; 12-month promo
ChatGPT for Academic Researchers	Faculty, postdocs (+4 colleagues)	ChatGPT, Codex, Work; GPT-5.6	Free, 12 mo · waitlist	Same-institution colleagues only
Antigravity for scientists	Anyone affiliated, incl. students	Top tier + Gemini 4 Argon	Free, 6 mo · open	Consumer terms; opt out of data use

PROPOSAL TO DISCUSS

A five-minute anonymous survey: career stage × tool × who pays (self, grant, institution, free programme, collaboration).

Also: seat or API credits, allowed on internal data?

Links: NRP token · Claude · OpenAI · Antigravity form · none of the seats include API credits

RELATED MEETINGS

Where agentic analysis comes up next

Meeting	When	Where	Note
Knowledge Group Masterclass: ML Model Benchmarking (Public Event)	26 Oct, 2026	Online	ML (classic ML methods) Benchmarking
IML 2026, 8th Inter-Experimental LHC ML Workshop	9–13 Nov 2026	CERN, hybrid	Track on LLMs and agentic AI
Round Table on AI @ DESY, agentic AI edition	1 Dec 2026	DESY, Hamburg	Flash-talk abstracts by 15 Nov; afternoon tutorials
ACAT 2027	5–10 Mar 2027	Tokyo City University	Abstracts due 1 Nov, mini-symposium proposals too
Agentic AI, Gigantic Aims	5–7 Apr 2027	La Salle, Barcelona	COMCHA with EuCAIF and HSF; abstracts until 21 Dec

Missing one? Post it in #agentic-analysis and we will add it.

IML · AI @ DESY · ACAT 2027 · Agentic AI, Gigantic Aims

WHO ELSE IS BUILDING AGENTS

Genesis Mission awards using agents in particle and nuclear physics

Project	Lead	Area
AI agents for HEP simulations and analysis operations	K. Matchev, Alabama	Collider simulation, analysis
Agentic AI for real-time EIC data streams	W. Xie, Purdue	EIC
Agentic workflows for the Mu2e CLFV search	D. Tedeschi, South Carolina	Mu2e
Simulation AI agents for rare-event discovery	J. Gruszko, UNC Chapel Hill	Rare-event searches
ORACLE: reasoning and causal learning in experiments	E. Darve, Stanford	Experiment operations
Agentic algorithm creation for quantum sensors	A. Li, UC San Diego	Quantum sensors
Agentic assistance for ARIS operations at FRIB	A. Paul, Northeastern	Accelerator operations

Candidates for this series. If you know these teams, help us invite them.

Selected from the DOE Genesis award lists of 22 Jul and 30 Sep 2026, titles shortened · July list · September list

AGENDA

Today, and the next meeting

Today · 27 October

16:10 **Benchmarking**
Haichen Wang (LBNL)

16:30 **How to grade an AI analysis?**
Andrzej Novák (MIT)

16:50 **Roundtable**

Next · 10 November

The agenda is empty.

Want to show a tool, a workflow or a failure mode? Reply in #agentic-analysis or message a convener.
Know someone who should present? Please point them our way.

The meeting follows US time, 08:00 PT / 11:00 ET: 16:00 CET this week, 17:00 CET from 10 Nov · indico.global/event/19587

BACKUP

Eight CLARIPHY groups, eight demonstrators

Area	Demonstrator	Main blocker	Horizon	People
Analysis redesign	Reviewable tech notes, tested on a real review committee	Collaboration and pub-board buy-in	~6 mo	K. Mahn, P. Maksimovic, A. Boveia
Noodling (idea → plot)	Web interface for fast questions on a small experiment's data	File, metadata and CLI access; auth	~6 mo, 1 FTE	G. Watts, A. Lyon, A. Himmel + 4
Discoverability	Skill marketplace, MCP servers to existing infrastructure	No standards yet	0–3 mo tech, 6+ social	M. Feickert; G. Stark
Benchmarking	Cross-experiment measurements scored against published values	No clean metric; little open data off-collider	~6 mo	M. Farrington
Review	Open-data analysis split into analyst and reviewer teams	Objective benchmark, expertise, acceptance	Now	H. Wang
Debugging, reproducibility	Checkpoints validating each step of a workflow	No common thrust across experiments	~6 mo	C. Kampa
Data standardization	Agentified fit exploring correlated systematics	Person-power, coordination, tokens	~6 mo	TREASURE: Hopkins, Hobbs, Kriesten, Zupan
AI use, policy	Supervisor LLM over task-specific small models	Sub-agents that are LLMs themselves	Now–6 mo	Malachi (SMU)

CLARIPHY breakouts, Madison, 15 Sep · people as listed on the breakout slides (reporters first)

BACKUP · NEWS SINCE 13 OCTOBER

Funding and models

Item	What	When
NSF 26-512 AI-ready Datasets	Make existing datasets usable for AI; awards up to $5M	Proposals due 4 Nov
NSF 26-513 AI Regional Hubs	State or regional consortia for AI compute access and training; $4–12M over 5 years	Proposals due 4 Nov
Genesis Graduate Fellowship pilot	Universities apply; about 100 four-year PhD fellows	Webinar 4 Nov · letter of intent 9 Nov
Genesis awards, 30 Sep list	18 more awards, incl. agentic operations at FRIB	Out now
Reflection Beam	501B open-weight mixture of experts, 23B active, Apache 2.0; aimed at coding and agents	Weights due late Oct; waitlist now

NSF 26-512 · NSF 26-513 · DE-FOA-0003673 · Genesis awards · Beam