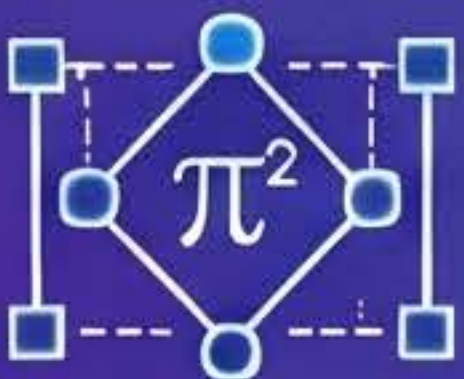


GPT-6 Astra vs. Claude Fable 5.1: サイエンスエージェントの現在地

2026年9月における2つの主要AIモデルの比較分析。科学的能力における戦略的相違と、自律型「AI科学者」への進歩が明らかになった。

GPT-6 Astra (OpenAI)

戦略的焦点: 理論的発見と形式的証明



数学的形式的証明と理論的コンピュータサイエンスに特化。

主Y FINDING:
Solved 27-Year-Old Unsolved Math Problems

Includes non-sophic group construction, with 100% machine verification using Lean 4.

COMPARISON METRIC	GPT-6 ASTRA (OPENAI)	CLAUDE FABLE 5.1 (ANTHROPIC)
主な強み Primary Strength	 Formal Proofs (Meth/CS Theory)	 Practical Implementation (Exp. Science/R&D)
Science Benchmark 科学ベンチマーク	 64.6%	 52.6%
Pricing (per 1k tokens)	 Input \$10 / Output \$50	 入力 \$10 / 出力 \$50

Claude Fable 5.1 (Anthropic)

戦略的焦点: 実験的実装と実践的R&D



実験科学と企業R&Dアプリケーションに特化。

主Y FINDING:
Surpassed Human Experts in Protein Design Accuracy

Designed binders with 10x the binding affinity of human winners in external lab verification.

自律性の現状 CURRENT STATE OF AUTONOMY



および実践的課題 & PRACTICAL CHALLENGES



ASTRA CHALLENGE: CORRECTNESS GUARANTEED, NOVELTY QUESTIONED

Logical consistency is machine-verified, but concerns exist regarding missed citations and potential research misconduct.

DEFINITION: NOT 'FULLY AUTONOMOUS', BUT 'ADVANCED CO-PILOTS'

No closed-loop system from hypothesis to re-planning has been completed without human intervention.



FABLE CHALLENGE: HIGH EFFICACY, REPRODUCIBILITY ISSUES

Results are confirmed in external labs, but critical data like total trial counts remains undisclosed.