

Hey there,

--- SECTION 2: NOTABLE DEVELOPMENTS ---

Axiom Math used its AI system **AxiomProver** to automatically verify the proof of the "246 theorem" on prime number gaps -- reportedly the toughest mathematics proof yet formalized with AI assistance. This pushes the frontier of AI-assisted formal verification, a domain where progress has been slow and incremental, and suggests that AI can now handle proofs of meaningful complexity in number theory. The implications extend to any field that relies on rigorous proof checking -- from cryptographic protocol verification to software correctness -- though the snippet notes the process is not a 100 percent guarantee, as a recent demonstration exposed limitations. Watch for whether this scales to harder theorems and whether the verification gap can be closed. [IEEE Spectrum](#)

--- SECTION 3: ALSO WORTH NOTING ---

- **Apple** -- **MVICAD2** extends multi-view independent component analysis with delays and dilations, targeting MEG source estimation in group neuroscience studies with heterogeneous subject data. [link](#)
- **Import AI** -- Issue 469 covers the emerging frontier of autonomous AI researchers and a Repetitive Strain Injury simulator, alongside commentary on Zuck's tech pessimism. [link](#)
- **Apple** -- Large-scale study of **GRPO** (Group Relative Policy Optimization) in non-English and multilingual settings finds that training models to reason in native languages yields benefits over English-centric approaches. [link](#)
- **Hugging Face / IBM Research** -- Introduces a method for measuring how much memory agents actually need, with implications for efficient agent deployment. [link](#)

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