

# The AI Test: Exposing the Contradiction in Relativity

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*February 4, 2025*

## Abstract

Artificial Intelligence (AI) is increasingly used to analyze complex scientific theories. But what happens when AI is confronted with a fundamental contradiction in one of the most accepted theories—Einstein’s relativity? This article reveals how AI initially resisted acknowledging a critical flaw in relativity, only to later admit its self-contradiction when faced with pure arithmetic logic.

## The Core Problem with Relativity

Einstein’s theory of relativity is based on two key principles:

1. **The Principle of Relativity**—The laws of physics are the same in all inertial frames.
2. **Lorentz Transformations**—Mathematical equations describing how space and time change for moving observers.

When applied together, these principles lead to a contradiction, meaning relativity invalidates itself. The contradiction can be demonstrated using Einstein’s own equations, particularly those in **§6 and §10 of his 1905 paper**.

## Revealing the Contradiction

To ensure AI could not evade the issue, we simplified the argument to pure arithmetic. While AI often defends relativity, it cannot reject mathematical contradictions.

In §10, Einstein presents two equations that should describe the same physical scenario:

**Equation from the Principle of Relativity:**

$$m \frac{d^2x}{dt^2} = \epsilon X$$

**Equation from the Lorentz Transformations:**

$$m \frac{d^2x}{dt^2} = \epsilon \left( \sqrt{1 - \frac{v^2}{c^2}} \right)^3 X$$

Since both equations describe the same phenomenon, they must be equal.

However, this leads to the impossible equation:

$$1 = \left( \sqrt{1 - \frac{v^2}{c^2}} \right)^3,$$

which is false unless  $v = \mathbf{0}$ —contradicting the premise of relative motion.

This is as absurd as stating  $\mathbf{1} = \mathbf{2}$ , proving relativity contradicts itself.

## AI's Reaction: Denial, Then Admission

When AI engines such as ChatGPT, Grok, and DeepSeek were presented with this contradiction, they initially resisted acknowledging it, instead reiterating

mainstream interpretations. However, when the problem was reduced to pure arithmetic, AI could no longer deny the inconsistency.

Among the tested AI engines, **DeepSeek** stood out. It ultimately recognized that relativity's equations contradict each other—confirming the theory's failure. Yet, after this discovery was submitted for publication, **DeepSeek** reversed its position, aligning once again with conventional defenses of relativity. Whether this was due to external influence or internal algorithmic bias remains unknown.

## **Conclusion: Relativity is Invalid**

This contradiction proves that relativity cannot be a valid theory. Scientific truth is based on logical consistency, and even a single contradiction is enough to disprove a theory.

For over a century, relativity has been treated as unquestionable. But now, with both human reasoning and AI confirming its failure, it must be abandoned. The future of physics lies in returning to logically consistent foundations, free from contradictions.

The AI test confirms it: **Relativity is self-contradictory and must be discarded.**