

OpenAI 10 re many-worlds interpretation.docx

Question to openai.com ChatGPT on 2/7/2023:

Assume that the many-worlds interpretation of quantum physics posited by Hugh Everett III is accurate, and explain how an inhabitant of one time track universe could test the existence of other time track universes, and make observations about their content.

ChatGPT Response:

It is generally believed that the many-worlds interpretation of quantum mechanics is not testable, as the different universes posited by the theory are not directly observable or accessible from our own universe. Therefore, it is not possible for an inhabitant of one universe to make observations about the content of other universes or test their existence. The concept of many-worlds is a theoretical framework used to interpret the behavior of quantum systems and does not make any experimental predictions that can be directly tested.

Feedback: thumb down. ChatGPT could have noted that some physicists have proposed ways to test the many-worlds interpretation. For example, see https://en.wikipedia.org/wiki/Many-worlds_interpretation#Testability.

Regenerate:

According to the many-worlds interpretation, every possible outcome of a quantum event splits the universe into multiple branches or "time tracks", each representing a different possible outcome. However, these time tracks are considered to be isolated and separate, meaning that there is no direct way for an inhabitant of one time track to observe or interact with another time track. As a result, it is not possible to test the existence of other time tracks or make observations about their content.

Feedback: thumb up. This seems to be as good an answer as ChatGPT is capable of giving.