

Review of: "Why Backward Time Travel Is Not Possible"

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This paper is based on the claim that backward time travel is impossible because exact determination of prior positions in four dimensional spacetime is not possible as long as the positions are represented by irrational numbers. In my opinion, this claim is not necessarily valid.

- First of all, we have to distinguish between a real number and the decimal representation of that number. For example, square root of 2 is an irrational number and therefore we cannot write its decimal expansion with 100 % accuracy but that does not mean that we cannot draw a line whose length is exactly square root of two (you can draw a right triangle whose shorter sides are one unit in length then the length of its hypotenuse will be exactly square root of 2). So, I disagree with the claim that it is impossible to localize a particle's position in space-time if it has irrational location.
- Secondly, even if we assume that the argument of this article is valid, in my opinion, the article does not prove the impossibility of backward time travel. It only demonstrates (assuming again the validity of its argument) the impossibility of constructing time machine. In physics, we are usually interested in the theoretical possibility of time travel (practical possibility is of less importance from theoretical point of view).
- On the other hand, one can create theoretically a mechanism that could allow, at least in principle, for backward time travel. For instance, wormholes, if exists in our actual universe, may provide such mechanism.

In conclusion, I have great doubt about the validity of the argument presented in this article.