

SPACE TRAVEL - WHY? - Emma- 1S

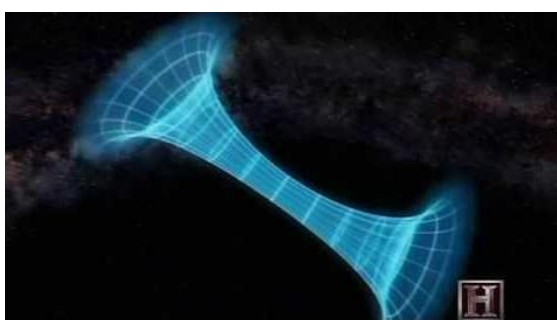
Time travel is just one of those things. Ever since mankind started to think, to act, to interact, traveling through time was on its mind. Yes, time travel is just one of those things, one of those things that makes us dream, decade after decade, one of those enigmas we're just so desperate to solve, even though it seems impossible.

Time travel is one of the most complicated enigmas of our time, but according to Stephen Hawking, it's possible. Let me explain, there are multiple ways to travel through time, the first option would be to use a spaceship; according to Einstein's theory of relativity, light always moves at the same speed, and to do so, time slows down. Besides that, Time and Space is a same unit. Therefore, traveling through time would mean traveling through space. But you would need to travel as close as possible to that of the speed of light. In doing that, the time surrounding us would pass much more slowly, while the time outside of us would pass at the same time: for the person conserved, it would seem as time speeds up outside of his spaceship. But for this option, we would need an enormous amount of energy. There is also another option; this one seems less reliable though. It would be either to create, or capture a wormhole. But finding one that is human-fitted seems close to impossible and we don't have the technology required to build one. We could capture one at a "femtoscopic" level and extend it, but again, we don't have the technology to do so.

But let's for a minute pretend that this all was possible, we can now go from one hand to the other in less than a few minutes, but we can travel through time. To do so, we would have to go in the future by means of our first hypothesis with one hand of this wormhole. Since the other hand would be in the past and it takes only a few seconds to go from one hand to the other, you can now travel to the future without any problems (once again, space and time is one unit therefore, manipulating the wormhole through time would be like manipulating it through space).

But then, even if we were able to travel through time, especially in the past, we might have to deal with paradoxes, which mean that you might change the past and therefore the present.

Time travel is a dream that mankind will always work towards. It is a subject that we will always be fascinated by, and that we will keep on trying to understand until we figure out a way to conquer it.



A Wormhole



Glossary:

Wormhole: a wormhole is, in physics, a hypothetical object from the properties of space-time. It would be a shortcut through space-time.

Speed of light: According to Einstein, the speed limit, the fastest something can get. It is named that way because it is the speed that light goes.

Femtoscopic: That has the scale of a femto, $1,0 \times 10^{-15}$ meter