Subject: Parallel Universes, Time Travel, Physics, & Meaning of l
Posted by wessxdog on Fri, 03 Oct 2003 12:23:18 GMT
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Travelling into the past is most likely impossible. Causality (the relationship between cause and effect) will most likely prevent time travel into the past, as well as the second law of thermodynamics, the law of entropy, unless matter returns to original state, which, of course, defeats the purpose of travelling back in time. Paradoxes also prevent time travel (unless the multiverse exists).

The theory of relativity only allows for time travel, but it is still most likely realistically impossible (anyone here able to propose a way to travel into the past?). There is a small chance that the theories of relativity could be wrong because they are based around the speed of light being constant, and there is a chance that the speed of light isnt constant (over extremely long distances). Although parts of the theory of relativity have been proven (such as time dilation).

Although if you travelled through a Kerr-Black hole your particles may see another universe after you're crushed at the singularity.

The multiverse could possible exist although common sense rebels. This could have disturbing effects on the metaphysics of identity if there are an infinite number of characters that exist.

Ender, you should have known this, but anyway, according to the special theory of relativity it is IMPOSSIBLE to travel at the speed of light (in a vacuum), as your mass would be infinite, your length would have contracted to 0 and time would have dilated to a stop. Not to mention it would require an infinite amount of energy to reach it (which is impossible).

Travelling into the future is easy: If you travelled at 0.99999999c (c = Speed of light in a vacuum) you could travel to andromeda (the closest galaxy to us) and back in 55 years, but the Earth would have aged 4.7 billion years (if it still existed). Although travelling at those speeds, a single particle of dust would have the inertia of a planet.

And wormholes most likely exist on the plank scale forming a space time foam. You don't "make" wormholes. They already exist. All that stands in the way of travelling through wormholes are that they are really small (they can be enlarged with a lozenge that has the density of a nuetron star) and that they pinch off as soon as matter enters them (which can be solved by surrounding the "ship"with antimatter).