

Re: How to Travel Backwards in Time and not Violate Causality

Source: <http://sci.tech-archive.net/Archive/sci.math/2007-07/msg03621.html>

- *From:* Danny <fasttrack2a@xxxxxxxxxxxxxx>
 - *Date:* Sun, 22 Jul 2007 09:53:41 EDT
-

On Jul 20, 10:58 pm and in the thread
http://groups.google.com/group/sci.physics.relativity/browse_frm/thread/587d3ee336d28e12
Descartes <descartesne...@xxxxxxxxxx> wrote:

Can you pls. give more details like show

illustration what you

mean by an actual example ...

I have a very powerful example that might break the clever spell that you are under if you are sufficiently competent in high school algebra. Start with a Galilean universe and the Galilean transformations in one spatial dimension. Instantaneousness exists in that universe, right? Then do this exercise:

Let c stand for the speed of sound (not the speed of light). Let the coordinates x and t refer to events in a stationary air medium —the absolute frame of reference. Prove that you can reset all the clocks of all the moving frames such that the transformation equations from the stationary air medium to a moving frame of reference is given by the equations

Re: How to Travel Backwards in Time and not Violate Causality

$$x' = x - vt$$
$$t' = \gamma(v) \left(t - \frac{vx}{c^2} \right)$$

where again c is the speed of sound in the stationary air and $\gamma(v)^2 = \frac{1}{1 - v^2/c^2}$

Now prove that the speed of sound in the coordinates of the moving frame is $c\sqrt{1 - v^2/c^2}$.

Also note that events defined as simultaneous in one frame of reference are not simultaneous in another frame and that an object moving faster than c^2/v in the absolute frame of reference will appear to be going backward in time in the moving frame.

Shubee
<http://www.everythingimportant.org/relativity/special.pdf>

i should have snipped that crap and just say this to >the title. (which i will regret later)

tommy's grandfather was tommy1727

if tommy1729 travels to the past and kills tommy1727,
how does tommy1728 (my father) and tommy1729 (me)
get born ??

and if not , how could i travel in time in the future ??

Re: How to Travel Backwards in Time and not Violate Causality

surprise me with an intelligent answer ...

(hope is so vain)

tommy1729

I am not claiming time travel is possible but
you have to think about this with an open mind!----

First if you went back in time and killed your
grandfather and your father was born before you killed
your grandfather, yes that would be possible.
Otherwise if you killed your grandfather before your
father was born you would not be here to go back in
time to kill your grandfather because your father
never existed therefore you never existed, simple as that!!
So there is no grandfather paradox. ;-)

Dan

.