

# Re: OWLS & Out of Sync Clocks—By How Much Are They Out of Sync.

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*Source:* <http://sci.tech-archive.net/Archive/sci.physics.relativity/2005-11/msg00092.html>

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- *From:* "kk" <[mr\\_kurt\\_kingston@xxxxxxxxx](mailto:mr_kurt_kingston@xxxxxxxxx)>
  - *Date:* 2 Nov 2005 07:09:42 -0800
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Tom Roberts wrote:

>Please re-read what I wrote. You are free to use ANY clock  
>synchronization method you prefer.

I already carefully read what you wrote, so I do not need  
to do so again.

Sure, you are free to use any clock "synchronization" method,  
but only one will give you correct results, so why mess around  
with failures?

Here is what I mean by "failures":

All methods which are compatible with relativity, including your  
aforementioned slow clock transport method.

Why are all these methods failures?

They are all failures because relativity – admittedly – does not  
have absolute simultaneity, which, as anyone knows, means that it  
has no way to absolutely synchronize two separated clocks, and yet  
only absolutely synchronous clocks can yield correct results.

--snip--

>So your claim above is irrelevant. I repeat: this is physics --  
>errorbars are important; errors significantly smaller than other  
>errorbars are irrelevant.

This is *\*not\** physics, it's *\*theoretical\** physics, and in  
theoretically physics, a miss is as good as a mile.

In theoretical physics, either clocks are absolutely  
synchronous, or they're not, and Einstein's are not.

Besides, if Einstein uses his method to "synchronize" two  
clocks which are either very far apart or moving rapidly  
in relation to light, then the out-of-synch error can be

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huge by anyone's standards.

—snip—

>This is a DEFINITION of clock synchronization in SR.

>If you don't like it, don't use it. <shrug>

It matters not what I do with it; what matters a lot is that physicists believe that E-'synch' is the proper way to relate clocks, and that all the results thereof are valid and meaningful physical results.

For example, physicists believe that light's one-way speed is experimentally  $c$  because Einstein's clocks get  $c$ , and yet this "result" is merely given up front as part of a mere definition. It is not an experimental result, and it can never be an experimental result, so it has no part in either theoretical or applied physics.

It is *\*only\** Einstein's definition of "synchronization" that makes special relativity special relativity.

But no scientific theory can be solely a definition.

Are you beginning to get a glimpse of what is not right about Einstein's method of clock "synchronization"?

>>There is one and only one way to correctly measure light's one-way speed, and that is by using unslowed, absolutely synchronous clocks which are affixed to an unshrunk ruler.

>Perhaps you will explain how to do that. Unobtainium is NOT admissible in a physical theory or an "experiment".

Then you will have to eat your own words (or Einstein's), because one-way, two-clock light speed invariance is unobtainium at its worst, since it cannot possibly occur experimentally, so it is not admissible.

>>Unfortunately for special relativity, the result of *\*this\** experiment will not be  $c$  invariance.

>Nonsense. The claimed "result" of an impossible experiment does not mean anything at all.

You need to prove that it is impossible. Until then, the one-way light speed case is definitely open, even if I do not proffer a way to absolutely synchronize clocks.

==kk==

- **Follow-Ups:**

- ◆ **Re: OWLS & Out of Sync Clocks–By How Much Are They Out of Sync.**

- ◇ *From:* kenseto@xxxxxxxxxx

- ◆ **Re: OWLS & Out of Sync Clocks–By How Much Are They Out of Sync.**

- ◇ *From:* PD

- **References:**

- ◆ **Re: OWLS & Out of Sync Clocks–By How Much Are They Out of Sync.**

- ◇ *From:* kk

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