

Re: answer to YBM's bell problem

Source: <http://sci.tech-archive.net/Archive/sci.physics.relativity/2008-09/msg00717.html>

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 - *Date:* Wed, 10 Sep 2008 22:57:35 -0700 (PDT)
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On Sep 10, 7:19pm, YBM <ybm...@xxxxxxxx> wrote:

rbwinn a ycrit :

one question at a time, let's simplify the point since you're clearly lost from the very beginning :

$$n'=t(1-v/w)$$

Well. In frame A, I consider two light rays on the (Ox) line (does it remind you something ?). One at speed $w=c$ in A, the other one at speed $w=-c$ in A. How would an observer in B would compute, in the context of you "theory", using n' , the speeds of both light rays simultaneously ?

OK, say that the lights are emitted at $-a$ and a in both frames of reference when the origin of B is at the origin of A, each ray of light directed at the origins. B is moving in the $+x$ direction relative to A at a velocity of v . The light ray emitted at $-a$ has a velocity of $w=c$ in both frames of reference. The light ray emitted at a has a velocity of $w=-c$ in both frames of reference. The light ray emitted at $-a$ goes from $x=-a$ to the origin of A in frame of reference A in a time of $t=a/c$. The light ray emitted at $-a$ goes from $x'=-a$ to the origin of B in a time of $n'=a/c$. The light ray emitted at a travels from $x=a$ to the origin of A in a time of $t=a/c$. The light ray emitted at a travels from $x=a$ to the origin of B in a time of $n'=a/c$. The equation for n' is

$$n'=t(1-v/w)$$

You remember the equation for n' , YBM.

Is there some kind of magic making its clock change whenever he consider one light rays or the other one ?

Re: answer to YBM's bell problem

It is not a transformation equation, YBM. It just tells how far light has gone in B according to a clock that shows n' .
Robert B. Winn