

Re: The velocity of light going pass a moving train.

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*Source:* <http://sci.tech-archive.net/Archive/sci.physics.relativity/2007-06/msg02529.html>

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- *From:* "Jeckyl" <noone@xxxxxxxxxxxx>
  - *Date:* Thu, 21 Jun 2007 15:26:12 +1000
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"Dono" <sa\_ge@xxxxxxxxxxxx> wrote in message  
<news:1182387866.761051.23130@xx>

On Jun 20, 5:27 pm, "papar...@xxxxxxxx" <papar...@xxxxxxxx> wrote:

On 20 jun, 18:29, Dono <s...@xxxxxxxx> wrote:

On Jun 19, 11:05 pm, "Jeckyl" <n...@xxxxxxxx> wrote:

"Dono" <s...@xxxxxxxx> wrote in  
message

<news:1182303768.824683.175520@xx>

Yes, I kept trying to get  
dr.Jeckyll to understand it  
.....I  
already  
showed him the formula, to  
no avail (at least, so far).

You were simply misunderstanding the  
problem and so coming up with  
the wrong  
solution.

Re: The velocity of light going pass a moving train.

No, idiot. You simply don't understand aberration, that is all. If you stopped talking and you started using math you would understand. But since you avoid using math like the plague, you keep repeating the same errors.

It helps when you are actually talking about the same problem as everyone else (G, Harry, myself). As I said .. you were using the right formulas but misapplying it (as far as the problem the rest of us were talking about).

Again, no, idiot. The description of the problem in math terms is not as ambiguous as you keep making it to be. Here it is, one more time, mr. Jackasss:

-In the traincar frame  $\theta_{car} = \pi/2$   
-In the track frame

$$\cos(\theta_{track}) = (\cos(\theta_{car}) - v/c) / (1 - v/c * \cos(\theta_{car}))$$

So, can you calculate  $\cos(\theta_{track})$ ? I asked you 5 times, why are you so shy about using a little math?

Since you don't get the math and you didn't get the "separation speed" explanation, I will give you a third explanation: since in relativity all frames are equivalent, instead of having the train moving Left to Right with respect to the tracks, imagine that the tracks move Right to Left while the light bounces vertically in the car frame.

Re: The velocity of light going pass a moving train.

How is  
the light inclined in the track frame? If you still don't get it,  
look  
at these pictures:

<http://www.fourmilab.ch/cship/aberration.html>

But in those pictures, the observer is in the train frame and he sees through the window as if the ground is moving from left to right and, obviously the rain is falling with an angle that clearly is inclined into the direction of the movement of the ground, again as seen from the train frame. So those pictures actually contradict what you are saying.

Miguel Rios

In both cases the light is inclined from right to left,

No .. if the traing goes left to right in the FoR of the tracks, then the light that is vertical in the train goes left to right in the FoR of the tracks.

You are using the correct formula .. but applying it incorrectly. BTW: Do you even understand relativistic aberration works, and why you get a great difference in angle when you take relativity into accout.

i.e. it makes an angle greater than 90 degrees with the semipositive x-axis.

Try understanding the relativistic aberration formula, would you?

How about you try it .. you seem to think the light goes the wrong way