

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/msg02554.html>

- *From:* "Sue..." <suzysewnshow@xxxxxxxxxxxx>
 - *Date:* Thu, 21 Jun 2007 05:48:18 -0700
-

On Jun 21, 8:52 am, BZ <WQAHBGMXS...@xxxxxxxxxxxx> wrote:

On Jun 21, 1:33 am, Dono <s...@xxxxxxxxxxxx> wrote:

On Jun 20, 10:26 pm, "Jeckyl" <n...@xxxxxxxxxxxx> wrote:

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

news:1182387866.761051.23130@xx

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

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

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

"Dono"
<s...@xxxxxxxxxxxx>

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

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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.
Jackass:

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

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

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So, can you
calculate
 $\cos(\theta_{\text{track}})$?
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. How
is
the light
inclined in
the track

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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

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you even understand relativistic aberration works, and why
you get a great
difference in angle when you take relativity into account.

Yes, I do i****. Now check with the guy who was the first to derive
the formula:

<http://www.fourmilab.ch/etexts/einstein/specrel/www/>

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

Check with Einstein, you ignorant t***:

<http://www.fourmilab.ch/etexts/einstein/specrel/www/>

Do you understand that in the train iFoR, the vertical beam in the
light
clock hits both mirrors 'dead' center, all the time, because the
mirrors
are aligned in the trains iFoR to be parallel?

If you see that, then you should realize that a basketball player,
riding
on the train, sitting in his seat, dribbling the ball in the aisle,
would
have the ball moving vertically in the trains iFoR.

If you agree with those, then you should realize that from ANY iFoR,
the
light must continue to be seen to hit the mirror in the center and the
ball

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to hit the floor and the basketball players hand dead center.

Since the mirrors and the hand are traveling left to right, the light and the ball must travel left to right and follow the path that Jeckle keeps describing to you.

At the moment that the image of the ball [light beam] hitting the floor [mirror] reaches the trackside observer, the objects causing the images have moved even further to the right, but the track side observer sees the ball following a path that looks like a series of mmmms. The light, on the other hand, zigzags to the right. Both continue to hit the exact same spots.

Were that not true, the basketball player and the guy building the light clock would both have ways of detecting and measuring ABSOLUTE MOTION.

If you are going to argue for such an absolute motion detector, you will need to abandon quoting Einstein, because he clearly said that it could not be done, as have over a century of experiments.

That's a fair and square analysis. Whether you represent the mass with a ball or the mirror's dielectric, the moving path is the one that is effective. You can even prove it with QED.

Now! I nominate you to explain why we can't see light on its journey from the sun to the moon and why raindrops viewed from a moving car don't take longer to hit the ground in spite of the diagonal path. >:-)

Sue...

Aside to Jeckle, and others: please keep your language here clean and polite. Children may read the postings here. In fact, your great great grand children WILL almost certainly read what you have written. You set a very poor example for them when you curse and call each other idiot, etc. I understand your frustration when someone 'just doesn't get it', but losing your temper just makes you look bad.

--
bz

please pardon my infinite ignorance, the set-of-things-I-do-not-know is an infinite set.

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bz+...@xxxxxxxxxxxxxxxxxxxx remove ch100-5 to avoid spam trap- Hide quoted text -

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