

Re: Einstein's Train Gedanken Re-visited

Source: <http://sci.tech-archive.net/Archive/sci.physics.relativity/2009-06/msg02634.html>

- *From:* jem <xxx@xxxxxxx>
 - *Date:* Fri, 26 Jun 2009 08:49:02 -0400
-

On Jun 25, 6:48 pm, "Whoever" <no...@xxxxxxxxxxxx> wrote:

"jem" <x...@xxxxxxx> wrote in
message [news:eMK0m.1145\\$dz7.393@xxxxxxxxxxxxxxxx](news:eMK0m.1145$dz7.393@xxxxxxxxxxxxxxxx)

On Jun 24, 9:38 pm, "Whoever"
<no...@xxxxxxxxxxxx> wrote:

"Bruce Richmond"
<bsr3...@xxxxxxxxxxxx>
wrote in message
<news:b044dd85-4e58-44f2-a2ba-f20bb13d94b6@xxxxxxxxxxxxxxxxxxxxxxxx>

On Jun 24,
1:20 am,
"Whoever"
<no...@xxxxxxxxxxxx>
wrote:

"Bruce
Richmond"
<bsr3...@xxxxxxxxxxxx>
wrote
in
message
<news:dcf2a5b6-21b5-4d0f-bd5b-0ff69cf82776@xxxxxxxx>

On
Jun
23,
10:54
pm,
"Whoever"
<no...@xxxxxxxxxxxx>
wrote:

"Bruce
Richmond"
<bsr3...@xxxxxxxxxxxx>

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wrote
in
message

news:2939b7dd-20fb-43d8-9210-3f346f67

For
starters
what
you
proposed
and
what
you
described
were
not
the
same
thing.

Yes
..
they
are

Your
discription
still
had
the
clock(s)
moving
on
the
earth's
surface.

No
..
it
clearly
didn't.
Only
one
of
them.

Ok,
I'll
grant
you

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that.
I
misinterpreted
what
you
were
saying.

That's
ok
..
glad
we
cleared
that
up

==>>
>>
So
..
what
would
happen
if
we
moved
the
clocks
apart
at
the
same
speed

according
to
the
(almost)
inertial
frame
of
the
center
of
the
earth.
So
(for
example)
the

one
moving
with
the
earth
would
stay
'still'
(relative
to
the
earth)
and
the
other
one
move
away
at
twice
the
speed
of
earth's
rotation
in
the
opposite
direction.

==
See
there
"the
one
moving
with
the
earth
would
stay
'still'
(relative
to
the
earth)
"

So
they
are

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still
moving
along
curved
paths
in
the
ECI
system.

Yes
they
are

Combine
that
with
the
fact
that
even
the
ECI
system
is
not
truly
inertial
and
it
becomes
very
unlikely
that
the
effects
will
cancel
out.

http://en.wikipedia.org/wiki/Earth_C

"It
should
be
noted
that
ECI
frames
are
not
truly
inertial

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since
the
Earth
itself
is
accelerating
as
it
travels
in
its
orbit
about
the
Sun."

Grr
...
Picky
..
so
the
only
affect
is
due
to
the
movement
of
the
earth
around
the
sun
and
the
sun
around
galactic
core,
and
whatever
non-inertial
movement
the
galaxy
may
have.
So
..

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ignoring
those
effects
..
treating
the
ECI
as
inertial
for
the
sake
of
this
thought
experiment
..
(which
seemed
to
be
obvious
from
context,
but
I
see
we
need
to
make
it
explicit)
what
do
you
claim
about
the
clocks
as
described?–
Hide
quoted
text
–
–
Show
quoted
text
–

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I
thought
the
whole
purpose
of
this
exercise
was
to
get
clocks
in
sync
without
using
light
signals
so
that
a
real
world
experiment
could
be
done
to
measure
one
way
light
speed
isotropy.

Yeup
..
this
would
be
one
way
to
do
it
..
moving
one
way
westward
with

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the
appropriate
speed
would
keep
it
in
sync.
Or
...
put
both
clocks
on
a
train
heading
west
at
the
appropriate
speed
,
and
do
mutual
clock
transport
there
and
they'd
be
in
sync
and
the
train
frame
would
then
be
(close
to)
inertial.
Again,
we're
ignoring
here
the
orbit
of

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the
earth,
perturbations
from
other
bodies,
movement
of
sun
around
galaxy
etc.
its
pretty
much
impossible
to
get
a
perfectly
inertial
frame
..
and
that
a
suitable
train
and
track
(or
plane)
would
be
very
impractical
:)

The plane
sounds like
the best idea
so far. It
could be
done. And
according to
SR the
clocks
should stay
in sync as
they are
moved

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apart, and
when
moved
slowly still
be in sync
when
brought
back
together.
But once
again we
are using an
assumption
of SR to
come to that
conclusion.
LET says
that the
clocks go
out of sync
when apart
but
return to
being in
sync when
brought
back
together.

Well .. LET always says two things. What we measure and observe as happening (which is reality as far as we are concerned) and what REALLY really is happening in the ether frame (which is not reality as far as we are concerned). LET does say that we need clocks synced as per SR to make a measurement that is valid for our frame of reference. BUT it also says that any measurement we make that is valid in our frame of reference is REALLY not valid at

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all
because REALLY
everything has contracted
and slowed down due to
movement
through the aether .. which
of course, we cannot detect
or determine.
One
thing about LET, it
REALLY just makes things
unnecessarily confusing.

As opposed to SR which also uses different
coordinate systems for each
frame, which do not agree with each other.
Which is why you get
relative simultaneity and have to use the LT
when comparing coordinates
from the two frames. For many that is
confusing.

What's
more, if
you check
them using
light signals
when they
are apart
you will
measure
them to be
in sync, if
you assume
that light
travels at c
relative to
your central
master
clock. But
since it is
highly
unlikely
that the
master
clock is at
rest in the
ether frame
that is
not a valid
assumption.

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LET says we will measure
what SR says we will
measure. LET just adds to
what SR says by claiming
that everything we observe
and measure is an
illusion and wrong :):)

Do you think the fact that thermometers don't measure IQ
makes their
measurements "illusion and wrong"? In LET, clocks and
rulers don't
measure time and distance (nor are they meant to).

Yes they do.

No, they don't. And that is a FACT. In LET, time and distance are unmeasurable.

If they don't, it makes them rather pointless then.

Right, just like thermometers are pointless because they don't measure IQ.

LET

claims that the clocks and rulers are distorted by the motion through the
aether, which 'magically' slows down every process and shrinks every length,
and so the measurements they give are wrong.

It's not possible for measurements to be wrong – every measurement is what it is.

They still measure length and

time. They just give distorted answers.

Right, just like thermometers measure IQ but give distorted answers.

Unless of course, the observer

happens to be at rest in the aether. In which case the answer he gets are
correct. Except he doesn't know it because the aether is undetectable (one
of its 'magical' properties. its also a perfectly rigi solid and permeates
all matter .. amazing stuff).

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I can only imagine that LET followers end up

needing psychological help
knowing that everything
they see is an
illusion
:):)

There are no illusions in models.

LET claims everything we see is an illusion .. a distortion of the true reality ..which is the the spheres we see are not spherical, the cubes are not cubes. A distortion that happens to make things at rest relative to us look like what they would in true reality if we were all actually at rest in the aether.

In your last post, you claimed to find LET confusing. In this post, you proved that claim. It's anybody's guess why you'd think you were qualified to explain it to anyone else.

.