

# Re: Proper quantities in SR

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*Source:* <http://sci.tech-archive.net/Archive/sci.physics.relativity/2007-07/msg00240.html>

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- *From:* "Jeckyl" <noone@xxxxxxxxxxxx>
  - *Date:* Wed, 4 Jul 2007 23:59:55 +1000
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"Sue..." <suzysewnshow@xxxxxxxxxxxx> wrote in message  
<news:1183547278.668037.243270@xx>

On Jul 4, 5:37 am, "Jeckyl" <n...@xxxxxxxxxxxx> wrote:  
[...]

<< It is clear that  $dt = d_{\tau}$   
in the particle's rest frame.  
Thus,  $d_{\tau}$  corresponds to  
the time difference between  
two neighbouring events on  
the particle's world-line, as  
measured by a clock  
attached to the particle  
(hence,  
the name proper time).  
According to Eq. (1422), the  
particle's clock

-----> appears <-----

to run slow, by a factor  
 $\gamma(u)$ , in an  
inertial frame in which the  
particle is moving with  
velocity  $u$ .  
This is the celebrated time  
dilation effect. >>  
<http://farside.ph.utexas.edu/teaching/em/lectures/node114.html>  
...Contrary to your arrogant  
assertions that something  
more is afoot than a mere  
path delay

It is more than path delay .. it is NOT an  
illusion .. time runs  
slower

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in  
relatively moving frames than one's own  
frame.

Do you think time runs slower for the pigeon racer?

J: << From the frame of someone not comoving with him, yes >>

Hint: Mass moving in one inertial frame has different kinetic energy than equivalent mass moving relatively to that frame.

Yes .. so?

That difference in energy is most easily represented with an imaginary time because time is a symmetry partner with energy.

Why are you stressing over kinetic energy being different .. that's just classic physics

[snip some weird tangent again]

To say \*time is different\* in another frame or the "clock really slows" is equivalent to thinking Michael Jackson could live longer sleeping in a big solenoid because the time is different there.

No .. one is physics .. the other is just plain scary

Do you really not understand how time can be slower for an object in an iFoR in which it is moving?

So the expressions "as judged from K" (Einstein) or "appears to slow" (R. Fitzpatrick) are both correct expressions and they don't seem to be from some sort of spooky or cranky web pages as you keep suggesting.

What are you on about .. what spooky pages?

[snip add for Uni of Texas]

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