

Re: Is time dilation real?

Source: <http://sci.tech--archive.net/Archive/sci.physics/2006-01/msg02876.html>

- *From:* "Greg Neill" <gneillREM@xxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Wed, 25 Jan 2006 14:31:25 -0500
-

"Spaceman" <Realspace@xxxxxxxxxxxxx> wrote in message
news:Wf2dnfGpAdrXU0renZ2dnUVZ_tadnZ2d@xxxxxxxxxxxxxxxxxxxx

- >
> "Greg Neill" <gneillREM@xxxxxxxxxxxxxxxxxxxxxx> wrote in message
> [news:ZIPBf.20331\\$ve.346299@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:ZIPBf.20331$ve.346299@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)
> | Different particles doing different things.
> | Some are decaying, some oscillating, some are
> | electron energy transitions in atoms. Very
> | different things all.
>
> Still, only particles being used.

But different mechanisms nonetheless. You claim that different mechanisms will be affected in different ways.

If you are unhappy about the fact that particles are involved, then add to the list the observed spacetime effects noted in systems consisting of spinning pulsars and closely orbiting massive bodies.

- >
>
> | So your objection cannot stand. Unless of course
> | you just want to be stubborn and insist that by
> | some wildly improbable stroke of luck this
> | selection of mechanisms all just happen to be
> | affected identically.
>
> No luck about it.
> Predicting particle actions/reactions is still not
> finding a cause.
> The problem is it lacks a physical cause for such predictions.
>
> Please tell me what is the physical cause of the clock's difference?

The properties of spacetime as observed.

Re: Is time dilation real?

Besides, physics is not about causes or "why's".
Physics is about creating mathematical models that accurately predict what can be observed. Relativity is such a model, and works beautifully. Can you find a single instance of a prediction of relativity that has been falsified by observation?

- **Follow-Ups:**

- ◆ **Re: Is time dilation real?**
◇ From: Spaceman

- **References:**

- ◆ **Re: Is time dilation real?**
◇ From: PD
- ◆ **Re: Is time dilation real?**
◇ From: $G=EMC^2$ Glazier
- ◆ **Re: Is time dilation real?**
◇ From: PD
- ◆ **Re: Is time dilation real?**
◇ From: Gary Matthews
- ◆ **Re: Is time dilation real?**
◇ From: Spaceman
- ◆ **Re: Is time dilation real?**
◇ From: Sam Wormley
- ◆ **Re: Is time dilation real?**
◇ From: Spaceman
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◇ From: Greg Neill
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