

sci.physics: Re: What is this "internal clock" in muon which slows down its rate of decay when they move very fast?

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Source: <http://sci.tech-archive.net/Archive/sci.physics/2005-02/1306.html>

From: Tom Capizzi (*etianshrdlu_at_verizon.net*)

Date: 02/02/05

Date: Wed, 02 Feb 2005 21:53:28 GMT

"TomGee" <lvlus@hotmail.com> wrote in message
news:1107371077.415025.11570@o13g2000cwo.googlegroups.com...
> *To: Tom Capizzi*
> *No, it is untrue that they can't compare each other's clocks during the*
> *trip. Video communications are not impossible so long as the speed of*
> *both observers remains below c. But what's the point?*

Comparison of each other's clock is complicated by the limitations of light speed. It is not impossible, but it is non-trivial. As I mentioned to Franz, I was referring to the hypothetical grid of synchronized clocks that Special Relativity assumes. All along the way there can be clocks which will also show the time dilation. Given that the traveler does age less, do you suppose it happens all at once? The Paradox doesn't spontaneously appear only at the end of the trip. During the trip, observers stationed at the remote clocks would also swear that the onboard clock of the traveler was running slow, even as he swears that the remote clocks were running slow.

> *The experiment*
> *has nothing to do with whether or not they can tell each other's passed*
> *time during the trip. It has only to do with the fact that if they*
> *meet up again they will see the differences in their ages.*
> *TomGee*
>

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