

Re: Speed of Light

Source: <http://sci.tech-archive.net/Archive/sci.physics/2004-07/5009.html>

From: Bjoern Feuerbacher (*feuerbac_at_thphys.uni-heidelberg.de*)

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Turtle22 wrote:

>> *Uncle Al* wrote:

>

>

>> *Idiot. Learn the difference between the four-vector and rest*

>> *mass.*

>>

>

>

> *Alright now, c'mon. Right now I'm 18 years old, I came up with this*
> *theory when I was 17 during my AP Chemistry class. I was bored, and*
> *we've never even learned about four-vector and rest mass. My god man,*
> *ease up some.*

Perhaps you should have told your age and your level of education before – I think then many people wouldn't have been so harsh to you. ;-)

> *As for everyone else, thanks for the input, I've actually learned a*
> *little about all of this stuff. I've haven't been introduced to*
> *photons yet and this will probably help me when I do get started on*
> *them.*

>

> *As for original question, I understand that light doesn't have mass (I*
> *guess), but I want to know where my formula went wrong.*

Your formula went wrong because the "m" in $E=mc^2$ is **not** the thing which is commonly called "mass" in physics today.

> *If my formula*

> *doesn't have a mistake, then apparently there's a mistake in one of*
> *the equations.*

The "mistake" is in popular science. The equation $E=mc^2$ is presented without often without any explaining remarks – when it is applicable, what the "m" in it means etc.

> *And if that's the case then I'd like to look into that*
> *a little more.*

sci.physics: Re: Speed of Light

Have you looked at the web page I gave you a link to?

[snip]

Bye,
Bjoern