



## Re: The true crackpots

>>>>> In brief, the justification is that the \*definition\* of length relies  
>>>>> on simultaneity: the locations of the two ends of a moving rod must be  
>>>>> measured at the same time for the measurement to mean anything. The  
>>>>> problem is that there is no way to define absolute simultaneity. Two  
>>>>> events that are simultaneous to observer A will not be simultaneous to  
>>>>> observer B, and vice versa. Since simultaneity is a  
>>>>> reference–frame–dependent property, so is length. There is no deeper  
>>>>> physical meaning to the length of a rod. Now, if you'd like for me to  
>>>>> expand on this in detail, we can do that.  
>>>>>  
>>>>>> Also how do you know what the observer measure is  
>>>>>> what SR predicts??  
>>>>>>  
>>>>>> Uh, measurement, Ken. In an experiment.  
>>>>>  
>>>>>> Could you propose a design for such experiment? I am looking forward to  
>>>>>> it.  
>>>>>  
>>>> I don't have to propose it. It's already been measured numerous times.  
>>>> See other post.  
>>>>  
>>>> When and where? By which experiment?  
>>>> Like most SRists, when in a corner, you try to escape responding.  
>>>> The truth is that length contraction has never been experimentally  
>>>> observed.  
>>>>  
>>>> I described rapidity and experimental design in another post. And the  
>>>> published papers about those experiments, some of which have been done  
>>>> at Fermilab and Brookhaven National Lab, are widely available, as I  
>>>> also pointed.  
>>>>  
>>>>

Sorry, I didn't find an experimental confirmation of length contraction. Why don't you give a clear reference of a paper giving an unequivocal proof?

Marcel Luttgens

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### • *Follow-Ups:*

◆ ***Re: The true crackpots***

◇ *From:* PD

◆ ***Re: The true crackpots***

◇ *From:* Androcles

### • *References:*

◆ ***Re: The true crackpots***

◇ *From:* mluttgens

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- ◆ **Re: The true crackpots**
  - ◇ From: mluttgens
- ◆ **Re: The true crackpots**
  - ◇ From: PD
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  - ◇ From: mluttgens
- ◆ **Re: The true crackpots**
  - ◇ From: PD

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- Next by Date: **Re: Does the 'Curvature of Spacetime' cause gravity?**
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