Re: Rigid rod problem

Source: http://sci.tech−archive.net/Archive/sci.physics.relativity/2005−09/msg00537.html

- *From*: "Spoonfed" <jonathan.doolin@xxxxxxxxxxxxxxxxxxxxx>
- *Date*: 6 Sep 2005 14:19:27 −0700

russ...@xxxxxxxx wrote:
> Kim B wrote:
>
> [snip]
>
> > If you choose a point on the rod a use its current speed as your FOR,
> > the the rest of the rod will fit nicely in this FOR (along the FOR's
> > line of simultaneity) ... with the same speed all along and the
> > correct proper length, exactly as it fits in our "rest" frame at the
> > base line ... all frames are equal, assuming the rod has accelerated
> > and will accelerate forever.
>
> Thanks. Of course you are quite right about that, and I
> apologize for my many mistakes here.

I believe it when I hear it, but it's a little tricky to figure out.

It seems surprising that no matter what reference frame you are in, all parts of the rod will pass v=0 at the same time. I'm not in the mood to develop a proof, but it seems right.

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- ***Follow−Ups***:
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    - *From:* russell
  - ***Re: Rigid rod problem***
    - *From:* Kim B

- ***References***:
  - ***Re: Rigid rod problem***
    - *From:* russell
  - ***Re: Rigid rod problem***
    - *From:* Spoonfed
  - ***Re: Rigid rod problem***
    - *From:* russell

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  - ◊ *From:* Spoonfed
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  - ◊ *From:* Kim B
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  - ◊ *From:* russell
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  - ◊ *From:* Kim B
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