

Re: why lorentz transformation?

Source: <http://sci.tech-archive.net/Archive/sci.physics.relativity/2005-09/msg00023.html>

- *From:* "Sue..." <suzysewnshow@xxxxxxxxxxxxx>
 - *Date:* 31 Aug 2005 17:42:37 -0700
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francisco wrote:

- > galileo's principle of relativity states that the laws of mechanics should
- > be the same for all inertial observers. and indeed, newtonian mechanics is
- > unchanged under galilean transformations. the problem is that maxwellian
- > electrodynamics is not the same in every inertial frame under that
- > transformation. so what to do? find a set of transformations under which
- > both mechanics and electrodynamics are the same for all inertial frames.
- > this leads to the lorentz transformation.

Since Maxwell's equations don't predict radiation either but your radio works, it is probably not worth loosing sleep over their shortcomings. Certainly it is no excuse to replace physics with magic.

<http://arxiv.org/abs/physics/0204034>

<http://farside.ph.utexas.edu/teaching/em1/lectures/node46.html>

Sue...

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- *Follow-Ups:*

- ◆ *Re: why lorentz transformation?*
 - ◇ *From:* Bilge
- ◆ *Re: why lorentz transformation?*
 - ◇ *From:* David McAnally
- ◆ *Re: why lorentz transformation?*
 - ◇ *From:* the sofrat
- ◆ *Re: why lorentz transformation?*
 - ◇ *From:* the sofrat

- *References:*

- ◆ *why lorentz transformation?*
 - ◇ *From:* francisco

- Prev by Date: *Re: relativity of time*
- Next by Date: *Re: GPS 'GR Correction' Myth.*

Re: why lorentz transformation?

- Previous by thread: [*why lorentz transformation?*](#)
- Next by thread: [*Re: why lorentz transformation?*](#)
- Index(es):
 - ◆ [*Date*](#)
 - ◆ [*Thread*](#)