

Re: Will Somebody Please Tell bz What an Inertial Frame is.

Source: <http://sci.tech-archive.net/Archive/sci.physics.relativity/2005-07/msg00217.html>

- *From:* bz <bz+sp@xxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Mon, 4 Jul 2005 18:03:06 +0000 (UTC)
-

"Sue..." <suzysewnshow@xxxxxxxxxxxx> wrote in
news:1120489780.990083.63750@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx:

- >> [quote]
- >> the same laws of electrodynamics and optics will be valid for all
- >> frames of reference for which the equations of mechanics hold good.
- >> [unquote]
- >> He does not say what those laws are. He just says that they will hold
- >> for all frames of reference for which the equations of mechanics hold.
- >>
- >> He follows this closely with his second postulate.
- >> [quote]
- >> that light is always propagated in empty space with a definite velocity
- >> c which is independent of the state of motion of the emitting body.
- >> [unquote]
- >>
- >
- > Coulomb force and gravity is what usually is exempted
- > from "crutched up" interpretations of AE's PoR.

In AE's 1905 paper on special relativity, he deals with uniform motion, so those exclusions makes sense as they involve acceleration.

- > Isn't that convenient? Long range forces that can
- > never be localized can't screw up what really
- > should be called a "Theory of Invariance".
- >
- > But Oops. Exempting the Coulomb force and
- > gravity assumes things don't radiate.

NO. It just says that 'today we will not deal with gravity or how light is created'.

- > Which is quite consistant with Maxwell's equations
- > when Ampere's law is used, (vs Biot-Savart)
- > and quite consistant with a gravity theory
- > that requires rocket motors under your chair.

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But quite outside the scope of Special Relativity.

Science often involves restricting the scope of ones investigation.

[No need to quote the entire article just to post such a comment.]

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bz

please pardon my infinite ignorance, the set-of-things-I-do-not-know is an infinite set.

bz+sp@xxxxxxxxxxxxxxxxxxxxx remove ch100-5 to avoid spam trap

• *Follow-Ups:*

- ◆ *Re: Will Somebody PleaseTell bz What an Inertial Frame is.*
◇ *From:* sue jahn

• *References:*

- ◆ *Re: Will Somebody PleaseTell bz What an Inertial Frame is.*
◇ *From:* Arthur Dent
- ◆ *Re: Will Somebody PleaseTell bz What an Inertial Frame is.*
◇ *From:* bz
- ◆ *Re: Will Somebody PleaseTell bz What an Inertial Frame is.*
◇ *From:* Arthur Dent
- ◆ *Re: Will Somebody PleaseTell bz What an Inertial Frame is.*
◇ *From:* bz
- ◆ *Re: Will Somebody PleaseTell bz What an Inertial Frame is.*
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◇ *From:* Sue...

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