

Re: Myth of GPS Employing the Nonsense of SR and GR

Source: <http://sci.tech-archive.net/Archive/sci.physics.relativity/2007-08/msg00891.html>

- *From:* The Ghost In The Machine <ewill@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
 - *Date:* Fri, 10 Aug 2007 19:59:56 -0700
-

In sci.math, Timothy Murphy
<tim@xxxxxxxxxxxxxxxxxxxxxxxxxxxxx>
wrote
on Fri, 10 Aug 2007 16:23:15 +0100
<[Hp%ui.21414\\$j7.383613@xxxxxxxxxxxxxxxxxxxxx](mailto:Hp%ui.21414$j7.383613@xxxxxxxxxxxxxxxxxxxxx)>:

Sam Wormley wrote:

Here we are, 100 years after General Relativity
and it continues to generate more hype and heat
than light and advances.

Potter, you seem to be pissed that a theory you can understand
contributes to a very useful application, namely global navigation
satellite systems (GNSS) that has resulted in a \$30B+ industry,
creating a global infrastructure benefiting people all over the world.
Aviation, shipping, asset management, survey, mining, agriculture, time
dissemination, communications networks...

Although Potter's postings seem fairly nonsensical to me,
I wouldn't have thought GR was relevant to GPS?
SR, conceivably, even though I would have thought
the discrepancies from Newtonian theory would be negligible in this area.

Both are, in fact relevant. The curvature of space-time
up there is just slightly less than it is down here,
and it's enough to make a difference.

A better way of putting it, admittedly, is that GR is the
relevant issue here because of that curvature, and SR is
included as a special case.

Re: Myth of GPS Employing the Nonsense of SR and GR

Ps I do not dislike GR!
I would have thought that something like it
is necessary to make sense of space-time.

Indeed.

--

#191, ewill3@xxxxxxxxxxxxxx

Useless C++ Programming Idea #7878218:

```
class C { private: virtual void stupid() = 0; };
```

--

Posted via a free Usenet account from <http://www.teranews.com>

.