

Re: GPS falsifies H&K experimental claims

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- *From:* mluttgens@xxxxxxxxxx
 - *Date:* 26 May 2006 09:21:23 -0700
-

Eric Gisse wrote:

mluttgens@xxxxxxxxxx wrote:

[repost #3, google is being uppity]

GPS falsifies H&K experimental claims

A fascinating assertion, considering general relativity was used in the design of GPS and the successful explanation of the H&K observations.

I'm sure this rant will be as based in reality as your others.

"In the GPS, all atomic clocks in all reference frames (in orbit and on the ground) are set once and stay synchronized.

Off to an excellent start, you already made a gigantic error. Once the clocks are moved, they are no longer synchronized.

They need only very small corrections.

However, initial expectations based on special relativity were that clocks in different reference frames should have different readings and rates. Yet the Global Positioning System is designed in such a way that, after the individual clock rates are adjusted once pre-launch for the predicted relativity effects, all satellite clocks in all orbits remain in synchronization with one another and with all ground clocks without need for further consideration of relativity corrections, with the exception of one small correction needed for

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the slight non-circularity of the orbits."

Going strong! Another impressive fuckup..!

You are fucking up, not Tom Van Flandern !

Question to alert readers: Why might special relativity be a poor choice of theory for an environment that has an observable gravitational field?

Poor digression.

(Apeiron, Vol. 10, No. 1, January 2003 69
What the Global Positioning System Tells Us about the Twin's Paradox,
Tom Van Flandern).

Hahahahah.

Interestingly, all "pre-launch" adjusted clocks remain synchronized, a fact which excludes additive relativistic effects. In fact, those effects are straightforwardly explained by

Even more interestingly, they do NOT remain synchronized – contrary to your claim. If only someone had considered an experiment to test this.

Hahahah !

1) the blue shift of the the signals due to difference of gravitational potentials between the satellites and the Earth surface (the photons gain potential energy), and

How does one gain potential energy?

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Read Gravitation and Cosmology by St. Weinberg, 1972, pp 84, 85, perhaps you will understand how.

2) the redshift of the signals due to their travel along the hypotenuse of an approximately right-angled triangle whose other sides are vt (v is the orbital velocity) and ct , where t is the time that the signals would need to cover the satellites altitude.

Think so?

Why don't you compare your...interesting...explanation with reality?

With those premisses, I obtained the same formula as GR.
Ask yourself why, and what are the consequences for GR theory.
But you seem to be just another parrot.

Marcel Luttens

Obviously, such effects are not additive

Only to you.

Marcel Luttgens