

Re: Twin Paradox a blasphemy to Relativity

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From: TomGee (lvlus_at_hotmail.com)

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PD wrote:

> *TomGee wrote:*

> > *PD wrote:*

> > > *TomGee wrote:*

> > > > *Of course you can tell who is moving faster. In order for the
> ship*

> > > *to*

> > > > *leave Earth, it must move faster than the Earth is moving. In
> > order*

> > > > *for the ship to catch up with the Earth on its return to it,
the*

> > *ship*

> > > > *must go faster than the Earth.*

> > > > *TomGee*

> > >

> > > *You're kidding, right?*

> > >

> > > > *I throw an apple out of a moving car moving at 60 mph and it
leaves*

> > *the*

> > > *car with a relative velocity of 5 mph.*

> > >

> > >

> > *You can throw an apple out of a car at 5mph but you cannot escape
the*

> > *gravity of Earth at 5mph.*

>

> *You have no idea what you're talking about. The escape velocity from*

> *the Earth does not imply that a rocket has to be launched in the same*

> *direction as the Earth is moving.*

>

>

Who said that it does?

>

>

> *If the Earth is moving at V with*

> *respect to the rest of the solar system and the escape velocity of*

the

> *rocket is v , then if the rocket might have any velocity between $V+v$ and*

> *$V-v$ with respect to the solar system and still escape the Earth's gravity.*

>

>>>

You should tell that to NASA, if you haven't already. They could save a ton of fuel on their space take-offs.

>

>>>

>>> *Now, on the basis of that information, you tell me whether I threw*

> *it*

>>> *forward (so it's going faster than the car) or backward (so it's going*

>>> *slower than the car).*

>>>

>>>

>> *Not the same at a rocketship having to go faster than the Earth in order to escape its gravity. Your car is moving faster than the Earth*

>> *even if it's only going 5mph. The 5mph is IN ADDition to the speed of*

>> *the Earth since your car is moving at Earth speed when standing still.*

>

> *And this is crap, too. The Earth rotates from west to east at 1000 mph*

> *at the equator. An airplane traveling with ground speed 500 mph will be*

> *going 1500 mph with respect to the sun if flying from west to east, and*

> *500 mph with respect to the sun if flying from east to west.*

>

>>

Crap? No, I don't think so. You seem to have airplanes confused with cars, too.

>>>

>>>

>>> *Timmy gets hit with the apple and so he picks up a rock and throws*

> *it*

>>> *at me in the moving car and it hits me in the nose with a relative*

>>> *velocity of 80 mph.*

>>> *Now, on the basis of that information, you tell me whether he threw*

>> *it*

>>> *forward (so it's going faster than the car) or backward (so it's*

>> *going*

> > > *slower than the car*).

> > >

> > *He has to throw it faster than the car is moving in order for it to*

> > *catch up with the car. Whether Tim threw it forward or backward is*

> *not*

> > *relevant in this experiment.*

>

> *And this is still further crap. If Timmy is in front of the car, and*

he

> *throws it backward at 20 mph, it will hit me in the nose at 80 mph.*

If

> *Timmy is in back of the car, he will have to throw it 140 mph to have*

> *it hit me in the nose at 80 mph. Either way is possible and you can't*

> *distinguish them from the information given.*

>

> *Tom, you have little to no understanding of relative motion. I could*

> *give you some practice problems to try to correct that, if you*

like...

>

> >

No, thanks, I'll pass on that. You seem to have the wrong notions about relative motions, I wonder where they came from. I hope that's not what is being taught in the schools today.

TomGee