

# Re: Twin paradox revisited II

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*Source:* <http://sci.tech--archive.net/Archive/sci.physics.relativity/2007-07/msg02639.html>

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- *From:* "N:dlzc D:aol T:com \(\dlzc\)" <dlzc@xxxxxxx>
  - *Date:* Mon, 23 Jul 2007 19:50:07 -0700
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Dear bill:

"bill" <cosmosco@xxxxxxxxxxxxxxxx> wrote in message  
<news:1185242135.229779.35710@xx>

On Jul 23, 11:03 am, "N:dlzc D:aol T:com \(\dlzc\)"  
<d...@xxxxxxx>  
wrote:

....

My question is – on the basis that the astronaut sees 'the earth take millions of years to orbit the sun once' does he truly believe that whilst he is moving away from us that the earth's orbital velocity \*physically\* reduces to a mere 1K-s and, as he returns and sees it moving 'like a bat out of h\*ll' does he really believe (determine) that the earth's rate of travel has increased to an impossible near light speed?

He can measure and assume he is a "virgin", and infer that all those changes are "physically happening". He can make those measurements, and assume he is a devotee of classical Doppler, and infer what he sees as much better, but still not agree with the stay-at-home twin. Or he can make those measurements, and use relativity, and determine exactly what the stay-at-home is measuring for him/herself.

In other words, when he applies his knowledge of relativity he realises that what appears to be taking place is nothing more than a visual illusion created by his rate of travel relatively to the earth and that the earth is not physically orbiting the sun at faster or slower rates than it was when he was

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on the planet as it appears to be doing?