

# The Error in Relativistic Physics

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- *From:* "Pot" <pot@xxxxxxx>
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## The Error in Relativistic Physics

"Great spirits have always encountered violent oppositions from mediocre minds." – A. Einstein

The Science of Physics is based upon the making of measurements. What can be measured is taken as being "true". This is an excellent philosophy, but unfortunately the addition of the concepts of relativity into science has allowed for an inexcusable level of intellectual sloppiness. Once Fitzgerald had his "aha" revelation and asserted that the reason for the results of the Michaelson–Morley Experiment was that "yardsticks" were shortening in the direction of the relative velocity and Larmor added the proviso that if "yardsticks" were shortening, then clocks must also be slowing, another degree of freedom was added to the concept of measurement which must not be ignored. (Yes, the understanding of the effects of velocity is attributed to Dr. Einstein who showed, in his derivation of the Special theory of Relativity (STR), that applying mathematics to known physical laws could derive these effects. It must be remembered however, that the Lorentz Transformation–Aether Theory (LCAT) of Fitzgerald, Larmor and Lorentz is actually a special case solution of Special Relativity and since the two theories are cross–derivable they are really different ways of expressing the same theory. As a result, the existence of the Aether cannot be disproved without also disproving STR. LCAT asserts that the Aether does exist but, because of the form of the Lorentz Transformations, and the fact that it was believed that information cannot propagate faster than the velocity of light, our velocity with respect to that Aether cannot be measured. STR asserts that the effects predicted by Fitzgerald, Larmor and Lorentz do occur but, since our absolute velocity through space cannot, in principle, be measured, considerations of the Aether are unnecessary for computations but are not invalid. Many physicists assert that the Aether has been proven "not to exist". While it is true that it does not exist in the mathematics of Special Relativity, only a fool would assert that its non–existence has been proven. Whether the Aether exists or not can only be determined by searching for other evidence that requires the existence of the Aether in physical observations. Dr. Einstein himself warned, "remember gentlemen, we have not proven that the Aether does not exist, we have only proven that we do not need it (for calculations)", a conclusion which is entirely consistent with LCAT.

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If one accepts the existence of the Aether (LTAT), the mysterious nature of velocity effects vanish when one applies the appropriate Lorentz Transformations to observations made between three velocity reference frames <http://einsteinhoax.com/cf64.gif>. The necessary analysis (8 pages of algebra) required to achieve an intuitive understanding of velocity relativity phenomena is tedious, but it does yield correct results. (Any physicist who claims expertise in Special Relativity and who has not performed such an analysis has not done his homework and probably should look for another line of work.) The mathematical approach taken by STR has the advantage of being far simpler in that it allows the observer to consider his own reference frame to have zero velocity with respect to space. This is fine for a mathematical analysis, but it presents difficulties when one attempts to understand the mechanisms by which Nature operates.

The writer is aware that the idea of mechanism has been abolished from physical theory, leaving only mathematics and experiment; the reality is that we live in a mechanism and it is our job to eventually understand its workings as a mechanism. Unfortunately, instead of recognizing SRT is a convenient mathematical abstraction, however, the concept of space–time was invented. Under the space–time concept it was asserted that only one reality existed because what we considered as space and time were aspects of a single composite entity called "space–time" (requiring, as Dr. Einstein has been reported to have said, an infinite number of Aethers.)

When one considers the inputs from quantum theorists, the idea of a single entity of space–time encompassing all velocity reference frames becomes absurd. One of the two interpretations of quantum physics is the "spooky" requirement that quantum effects propagate through all of space at an infinite velocity. On the surface this would appear to violate the requirement of Special Relativity that nothing can propagate faster than the velocity of light. Actually, Special Relativity does not have that requirement, Special Relativity asserts that energy, and information encoded in the form of energy, cannot propagate faster than light because the Lorentz Transformation for Energy (Force times Length) becomes infinite at that velocity. SRT does not make any assertion about information that is encoded in a form that does not involve energy. One should note that changing the direction of polarization of a photon DOES NOT change its energy. As a result, the quantum coupling of the polarization of "paired photons" does not involve the transfer of energy between them and the velocity limitations of SRT do not apply to the transfer of information by polarization coupling. There is, at present at least, no theoretical reason why the "spooky" characteristic of quantum physics is not reasonable and is not consistent with Special Relativity.

At present, experiments in quantum physics have shown that information encoded in such a manner can propagate at a velocity of at least 4 times that of light and perhaps at an infinite velocity. This capability can readily be used to establish our absolute velocity through space to an accuracy of better than 400 miles per second and, in so doing, establish both that the Aether theory must represent reality. There is, however,

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another interpretation of the effect provided by Quantum Physics. This theory asserts that every decision point (e.g.– particle) in our Universe generates a new, coexisting, Universe as complex as our own at every instant of time. Each of these coexisting Universes contains an amount of energy equal to the energy of our own Universe and its component particles occupies the same volume of space as they do in our Universe. When one considers the interactions involved (i.e.– the factorial number of particles in the Universe and the number of instants of time which have elapsed since the Universe has formed), the number is so vast as to defy the imagination. In addition, it defies the precepts that energy cannot be created or destroyed and that two entities cannot occupy the same space at the same time. The writer asserts that the concept can be rejected as a mathematical pipedream of the type that Dr. Leary would approve.

The intellectual sloppiness that has transpired is the failure of the scientific community to recognize that LCAT and STR have shown that, in making a measurement in and or between two different reference frames, (elevation or velocity) one must also include the effect, if any, of the change in the reference frame (velocity or elevation) on the "size" of the units of measurement employed. The measurements must, of necessity, be made "locally" and then, using the appropriate relativistic transformations; the results of observation must be corrected to determine what is actually occurring between the reference frames. Without making such an accounting, it is not possible to be sure what actually did occur as a result of the change in reference frame. NATURE DOES NOT CARE WHAT WE MEASURE, IT CARES ABOUT WHAT IS ACTUALLY OCCURRING IN "ABSOLUTE TERMS". Our failure to recognize this is what leads to the mysterious nature of Relativity.

An example is in order. Suppose one was to observe that the price of gasoline was \$1.25/gallon at one end of a bridge and was also \$1.25/gallon at the other end of the bridge. It would seem to be a safe assertion that the price of gasoline was unchanged when the bridge was crossed. In the language of the physicist, the price of gasoline would be termed as "constant" between the two locations. This does not necessarily mean that the price of gasoline did not change. If we add a new item of information, that the bridge crossed the Detroit River from Windsor, Ontario to Detroit, Michigan, the conclusion changes. In Canada, gasoline is measured in terms of the Imperial Gallon, while in the US the US gallon is used. In addition, in Canada the Canadian Dollar is used as a medium of exchange, while in the US the US Dollar is used. At both locations we measure value in terms of local Dollars and fluid content in terms of local gallons. However, neither the dollars nor the gallon are the same at the two locations. In order to determine the relative price of gasoline at the two locations, one must determine the relationship between the units of measurement for money (exchange rate) and units of measurement for fluid volume between the locations. Until such a determination is made, one can draw no legitimate conclusion as to the effect of crossing the bridge on the price of gasoline.

In the case described, the price of gasoline is a "constant" in the same sense that a physicist would describe the velocity of light as a "constant". More precisely, the price of gasoline should be termed as

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"invariant" (it measures as having the same value) between the locations. Whether it would be also be "constant" (unchanged) would depend upon the exchange rate between the currencies. The "invariant" price of gasoline would be "constant" only if the Canadian Dollar was worth \$1.25 US. Dollars. This is what Relativity is all about!

What Fitzgerald recognized was that for the effects shown by the Michaelson–Morley Experiment to occur, the unit of measurement for length would have to differ in the direction of relative velocity and Larmor recognized that this required a reciprocal change in the units of measurement of time. In a (Force–Length–Time) system of units, this required that the effect of velocity on the units of measurement be: Force = 1 Length =  $1/(1-V^2/C^2)^{0.5}$  Time =  $(1-V^2/C^2)^{0.5}$  (The effects of a change in velocity on all other units of measurement can be derived using the rules of "Dimensional Analysis" as derived in the 19th Century to facilitate the study of Fluid Dynamics. This discipline allows any three entities to be used as the basis of a system of units. Force has been substituted for mass since force is directly observable while mass is not and the removal of mass as a basic unit makes the related material simpler.)

By incorporating these transformations with the assumption that information cannot be transmitted faster than the velocity of light (actually, Quantum Physics has shown that it can be as long as the information is not encoded in the form of energy) it is found that any attempt to measure our absolute velocity through space is doomed to failure because it is not possible to establish whether two physically separated clocks are synchronized to an accuracy better than the time of travel of light between those locations. When the effects of these transformations are factored into the results of observation and the mathematics involved, the relativistic effects of velocity are found to be classically Newtonian. The mysterious nature of STR vanishes.

STR works because the triads of Lorentz transformations contain minus signs and are multiplicatively commutative. The minus signs insure that the transformations for length and time become infinite or zero respectively when the relative velocity becomes equal to the velocity of light. The property of multiplicative commutivity insures that, when the effect between reference frames #1 and #2 is multiplied by the effect between reference frames #2 and #3, the results are the same as the effect directly between reference frame #1 and #3. The basic relativistic triad must be multiplicatively commutative, contain minus signs where appropriate, and have the property that the dimensional content of Planck's Constant ( $F*L*T$ ) must be unity if the theory is to match the results of observations.

When we get to the gravitational field, an examination of the gravitational transformations it provides reveals that something is amiss. The gravitational transformations provided by General Relativity are in the form:–

Force = 1  
Length = 1

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$$\text{Time} = 1/(1+\$)$$

$$\text{Space} = 1/(1+\$)$$

(The transformation for space is provided to account for the alleged curvature of space in the gravitational field.). It will be noted that the required minus sign does not exist and the transformation for Length is unity instead of the reciprocal of the transformation for time. As a result, General Relativity is incompatible with both the Principles of Equivalence and of Relativity! This is odd since these principles were used as the basis of General Relativity's derivation. **BACK TO THE DRAWING BOARD!**

The use of a few simple "thought experiments" of the type pioneered by Dr. Einstein, allows the correct gravitational transformations to be derived. This can be accomplished by two independent methods that yield identical results. The corrected gravitational transformations become:

$$\text{Force} = 1$$

$$\text{Length} = 1/(1-\$)$$

$$\text{Time} = (1-\$)$$

As will be noted, the required minus sign is present, the transformations for length and time are reciprocal and space is no longer required to be curved.

When the corrected transformations are applied to the gravitational field, the source of gravitational energy is immediately revealed and it is possible to predict a path of contraction of a massive object as it attempts to collapse into a hypothetical "black hole". As observed externally, the object collapses asymptotically to its "horizon radius". As observed internally (if that were possible), the object appears to collapse to four times its "horizon radius" and then to expand to an infinite radius. Late in the process, the object would appear to be a Universe similar to our own which had its origin in an inflationary "big bang" and is now expanding at an ever-increasing rate. The text that predicts this result, "Gravity", was copyrighted in 1987. It may be found at Website <http://einsteinhoax.com/gravity.htm>.

The source material for this posting may be found in "Gravity" (1987), "The Einstein Hoax" (1997), and "Corrections to Residual Errors in Special Relativity" (1999) located at <http://einsteinhoax.com/>. **EVERYTHING WHICH WE ACCEPT AS TRUE MUST BE CONSISTENT WITH EVERYTHING ELSE WE HAVE ACCEPTED AS TRUE, IT MUST BE CONSISTENT WITH ALL OBSERVATIONS, AND IT MUST BE MATHEMATICALLY VIABLE. PRESENT TEACHINGS DO NOT ALWAYS MEET THIS REQUIREMENT. THE WORLD IS ENTITLED TO A HIGHER STANDARD OF WORKMANSHIP FROM THOSE IT HAS GRANTED WORLD CLASS STATUS.**

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a regular basis. Objective responses will be treated with the same courtesy as they are presented. To prevent the wastage of time on both of our parts, please do not raise objections that are not related to material that you have read at the Website. This posting is merely a summary.

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The material at the Website has been posted continuously for over 5 years. In that time THERE HAVE BEEN NO OBJECTIVE REBUTTALS OF ANY OF THE MATERIAL PRESENTED. There have only been hand waving arguments by individuals who have mindlessly accepted the prevailing wisdom without questioning it. If anyone provides a significant rebuttal that cannot be objectively answered, the material at the Website will be withdrawn. Challenges to date have revealed only the responder's inadequacy with one exception for which a correction was provided.

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- *Follow-Ups:*

- ◆ ***Re: The Error in Relativistic Physics***

- ◇ *From:* Uncle Al

- ◆ ***Re: The Error in Relativistic Physics***

- ◇ *From:* Sam Wormley

- Prev by Date: ***Re: Reflections from a Feather***
- Next by Date: ***Re: Reflections from a Feather***
- Previous by thread: ***US–NJ–Imaging Physicist***
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