

# "The Source of Gravitational Energy"

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"The Source of Gravitational Energy"

When one applies the correct relativistic transformations to the gravitational field, the source of gravitational energy becomes apparent. Unfortunately, due to a sophomoric error in the derivation of General Relativity, it has become accepted that the relativistic transformations for gravity are:

$$\begin{aligned} \text{Force} &= 1 \\ \text{Length} &= 1 \\ \text{Time} &= G * M1 * M2 / (R * C)^2 \end{aligned}$$

Unfortunately, the error in its generation made the mathematics impossible of solution within the constraints of three dimensional Euclidian Geometry and it took 18 months for a solution to be obtained. (The 18 months were not used up in solving the matrix equation, as current writings would have you believe, they represented the length of time it took for Dr. Einstein to adapt the geometry of Riemann (which is based upon the faulty description of a straight line implicit in all current geometries but which does not effect Euclidean Geometry). In applying Riemannian Geometry, Dr. Einstein added the fiction of curved space and added the spurious degree of freedom needed to solve his equations. This approach was accepted by a conference on the subject with the statement "why shouldn't we consider space to be curved, no one can prove it isn't. (Actually the proof is quite simple and is provided in <http://einsteinhoax.com/gravity.htm>). The acceptance of curved space required a term for the curvature as a function of the gravitational field. Surprise surprise, that curvature term turned out to be equal to the term for time.

When one applies the legitimate rules of measurement (as would be required in any of the more mundane fields of Science) and accepted and easily verified physical laws to the study of the gravitational field, one finds it possible to rigorously devise a different set of gravitational transformations which do not require space to be curved:

$$\begin{aligned} \text{Force} &= 1 \\ \text{Length} &= 1 / G * M1 * M2 / (R * C)^2 \\ \text{Time} &= G * M1 * M2 / (R * C)^2 \end{aligned}$$

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Testing these transformations against observation reveals that they yield the same conclusions within the Solar Field and in comparison with observations of massive and/or dense stars as does GTR to an accuracy well beyond experimental capabilities. There is one important difference, however. They reveal that the end result of gravitational collapse is not a singularity but is a stable object the size of its horizon radius. THEY ALSO REVEAL THE SOURCE OF GRAVITATIONAL ENERGY.

In an F(orce)–L(ength)–T(ime) system of units, the dimensional content of energy is  $F \cdot L$ . Since the gravitational transformation for force is unity, this means that the gravitational transformation for energy is equal to the gravitational transformation for Length and is therefore equal to  $1/G \cdot M_1 \cdot M_2 / (R \cdot C)^2$ . If we accept that the Principle of Relativity applies, the locally measured mass equivalent energy of an object must remain unchanged as it moves to a different elevation reference frame. In order to meet this requirement, the move to a different elevation in the field the object must gain or lose energy in terms of the units of measurement for energy existing at its original location. To do this, a force must result as it moves. The product of this force and the distance of fall is the energy of fall.

If we apply this process to an object falling from a quasi–infinite distance to the event horizon, we find that, in terms of the units of measurement existing at the quasi–infinite radius, the gravitational transformation for energy requires shows that the object converts all of its rest mass equivalent energy to kinetic energy. When it reaches the event horizon and its velocity equals the velocity of light, the original rest mass equivalent energy has become zero because it has been converted to kinetic energy (all as measured with the units of measurement existing at the quasi–infinite radius). In terms of the units of measurement existing at the event horizon however, the rest mass equivalent energy of the object is unchanged and the kinetic energy is infinite.

Since Relativity is all about observations made in systems where the size of the units of measurement are affected by the elevation and/or velocity, Dimensional Analysis is required to deal rationally with the process. Despite this, I have received an E–mail from an individual who strongly asserted that Dimensional Analysis is of no benefit in the study of velocity and gravitational effect. The frightening thing in this E–mail is that the sender is probably an academic busily damaging the minds of his students.

The source material for this posting may be found in <http://einsteinhoax.com/hoax.htm> (1997); <http://einsteinhoax.com/gravity.htm> (1987); and <http://einsteinhoax.com/relcor.htm> (1997). 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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