



CATEGORY: Undecidability, Uncomputability, and Unpredictability Essay Contest (2019-2020)

Topic There is a Simple Reason Physics and Science Have Reached what appears to be a limit and cannot at present get over it and move forward with the certainty of the Physics of Galileo and Newton in their time.

Essay Abstract

The reason why physics is stuck at this particular time and place is surprisingly simple. The foundational assumption of present day physics is wrong because it has no tie in to the reality we experience and that has created the very split, (Physics can not bridge the gap between the physical and the non-physical), that has been the long held hope for Physics to bridge. The TOE, the Theory of Everything. What follows will explain it all.

Author Bio

Gerry Klein is a retired longshoreman with an interest in understanding life.

The Body

Peter Lynds wrote this in the introduction to his essay, "Why There is Something Rather Than Nothing" and I can do no better to set the stage for the explanation.

"Why is there something rather than nothing? As Stephen Hawking put it, "What is it that breathes fire into the equations and makes a universe for them to describe?...Why does the universe go to all the bother of existing?"² Since this question was first posed as such by Gottfried Leibniz in 1697 [1], it has often been termed the ultimate question. Martin Heidegger called it "the first of all questions,"³ the British astrophysicist A.C.B Lovell observed that it raised problems that could "tear the individual's mind asunder,"⁴ while Charles Darwin

deemed it “beyond the scope of man’s intellect.”⁵ Despite its standing as a problem, one Adolf Grünbaum has termed the primordial existential question (PEQ) [2], it has attracted comparatively little attention from modern philosophers or physicists. This is no doubt at least partly due to it being viewed by many as being unanswerable, whether due to being seen as unfathomable, or as a pseudo-problem that does not stack up as a valid question in the first place. Due to its apparent unanswerability by conventional means, theists have claimed that the only other possible explanation is the creation of all physical existence by God [3]. However, not only do I think it a genuine problem, but also that it must have a logical, naturalistic answer.”

I would ask, “Why is there something instead of nothing?” and the answer would be if there were nothing at all but nothing it would be no problem because something is not existing to realize there is nothing and nothing can do nothing by itself or can it? Can nothing be aware of its non-existence. Only something its opposite can be aware of No-Thing. Aware of the concept of non-existence within an evolved Self-Conscious brain, mind.

Consciousness is defined as the ability to receive and respond to outside stimuli.

This is different than Conscious Awareness which is consciousness evolved within a separated entity, being to become self-aware.

Nothing and Something are the ultimate opposites.

But opposites are just differing degrees of the same thing as in love-hate, good-bad, hot-cold. Hot and cold are just differing degrees of temperature or the difference between a greater or lesser amount of heat. There is a common connection, entity between opposites which make them a co-existing unit in that whenever and wherever one appears the other is there also even if it is not experienced at the same time and place. In fact they cannot be experienced at the same time as a coin toss cannot land both head and tail visible from the one perspective.

What could be the Unknown X that unifies nothing and something, the connection that moves between them to change, create one from the other?

We know that concepts, fixed ideas in the mind activate emotions that cause us to change love into hate, and hate into love at the human level.

Of course the nature of the “X” that changes nothing to something predates the existence of life for something, stars, elements, minerals precedes life. Thus evolution has been introduced. The evolving primordial stuff “X” to create the “Somethings” we interact with in everyday experience that create the reality we say exists.

Evolution touches everything, (a lot of Somethings} and also by the unity of opposites nothing. If you doubt this read Herbert Spencer on Evolution in chapter 8 of Will Durant’s book The Story of Philosophy.

Herbert Spencer realized that the theory of evolution might be applied in every science as well as biology; that it could explain not only species and genera but planets and strata, social and political history, moral and aesthetic conceptions.

It is my contention that the theory of evolution does in fact do all that and more. The evolution of your thought in reading this article to unite those separated ideas, facts you have inherited and acquired into a new whole that will make sense of what I am herein explaining and reveal an open door to see and prove to yourself the New Universe that Science and Theology have promised for centuries and failed to deliver.

It is to take the same facts and rearrange them with the new discovery to reveal a new explanation and understanding that the Theory of Everything demands.

For almost the whole history man’s attempt to understand the nature of the universe has been to analyze matter, the material structure, that which has weight and occupies space and not the ideas within the mind that direct the action of how and why that matter is analyzed. Much like a fly banging against the clear glass of the window while the open door nearby is ignored.

The glass, something, in the window and the nothing, no-thing existing in the open doorway appear the same way. They are both invisible but their differing reality is easily understood by a consciousness evolved enough to know.

The Explanation

This that follows will be of the nature of trying to explain to people that don't know (but think they know) that the sun is stationary and it is the rotation of the earth that gives the illusion that it is the sun that is moving across the sky from east to west. This real illusion is difficult to break habit of long enough to reap the rewards of the new correct factual explanation. Especially in the beginning where you and I are now.

Evolution requires motion, movement to exist. If movement, motion, didn't exist evolution would not exist. For evolution is a movement in a direction not contained within the previous stage, form. As a young student studying piano evolves through stages beginner, intermediate, advanced, to concert pianist. Each stage is an evolvment from the previous stage which is however incorporated into the next. The same analogy with the evolution of cars, planes, and trains. And with the material world of matter, things, something and the immaterial world non-material no-thing world of Consciousness.

What is Motion?

Motion is the change in position of an object with respect to its surroundings in a given interval of time. **Motion** is mathematically described in terms of displacement, distance, velocity, acceleration, and speed.

This definition applies to objects, something material moving. There is no mention of nothing moving, of motion applying to the non-material, to nothing, to no-thing.

The mathematical formula for motion is. $V=S/T$.

V (velocity, speed) is equal to S (space) divided by T (time).

Example, 10 miles per hour.

There is no mention of anything or something moving in the formula $V=S/T$. And herein lies the clue. The formula has nothing to do with objects or non-objects, nothing. This very workable formula is independent of the objects who's motion it accurately describes. It also accurately describes the Motion of Nothing. But what use can this fact be?

This formula $V=S/T$, shows that velocity, Motion is an exact reciprocal relationship between Space and Time. It brings all 3 aspects of the equation into a relationship where each is defined by its relationship with the other 2 aspects.

The Creation of Something out of, from Nothing

The sole existent of the universe is motion. Motion is existent within all aspects of the universe from the very small to the very large. Our understanding of the Universe has evolved through our understanding of motion by the science of Physics. The history of physics is the history of the evolution of ideas of motion. So far that history of motion has been the study of the Motion of Objects. A new idea of motion is necessary.

NOTHING STANDS STILL.

NOTHING MOVES.

WHICH IS IT?

Answer it is both. The opposites again. Nothing physical stands still for all physical, material objects are in motion, a relative motion for sure.

The opposite is nothing moves. Yes nothing is moving. Think the fly unaware of the invisibility of the glass window impenetrable and the invisibility of the opened door. He is so focussed on solving the problem he cannot think to reverse his path to the point that got him in trouble.

Nothing moves! You are telling me nothing is moving! Yes, but don't stop reading just because my Wife stops here. She says, "Gerry how can you say nothing is moving when there is nothing there?" And the answer is, "If there is nothing there how can you say it is not moving?"

So this new idea has to be tried out to see where it leads. But initially this idea sounds so crazy THAT NO ONE, except the man who taught me, has ever tried it out.

This is a problem in that working Scientists and Philosophers cannot afford the luxury of prospecting in areas where they expect NOTHING WILL BE FOUND. For what would be the purpose or usefulness of finding nothing. We want to find something, golden even.

Review the Michelson-Morely experiment of 1887 to see the effect of finding nothing, this most famous null result in the history of experimental physics. It

drove the leading scientists of the time almost crazy as one commented that he would sooner believe the earth is stationary rather than believe the results of this experiment.

The results of this experiment have never been satisfactorily explained even by Einstein's great attempt.

After all people are looking, always looking, for something that will explain the current problems they are experiencing with the somethings that they have already discovered. So please don't tell me nothing, the opposite of something can possibly have anything to do with nothing.

Back to motion to explain the 3 dimensions of height, width and length. Three right angles, 3 dimensional space.

Start with a point and MOVE outward from that point in any direction not contained within the point and you have a line. Take the line and MOVE it in a direction not contained within the line and you have a surface. Take the surface and MOVE it in a direction not contained within it and you have a solid. A three dimensional solid, something or a three dimensional empty space, nothing.

Evolution takes the same form. But in evolution it is the inward action of consciousness acting on the outward form to reveal changes made in the consciousness itself. So the degree of change in the inward consciousness is only revealed by the new direction of movement, action taken by the form. It is not the form evolving but the consciousness within of which the form is the expression of. This changes the theory of evolution that Darwin saw to a Law of Evolution based on motion, the fundamental existent of the universe.

The movement of the plant kingdom in a direction not contained within it results in the animal kingdom with a new attribute expressed by the form, locomotion.

The animal moves. The movement of the animal kingdom in a direction not contained within it results in the human kingdom where the attribute of reason, the ability to think inward and see itself separated physically results in the creation of the opposites, a new direction to move in not hampered by the previous limitation. The idea of existing and not existing is created. The idea of something existing and nothing not existing is created.

Motion, movement is itself a frame of reference which also explains the motion of objects with that framework. The expansion of the universe, big bang, as a framework for objects moving within, within itself. At this point there is no rational explanation for the cause of the motion to exist in the first place. But motion as

was pointed out is independent of objects. It is a conceptual framework created to describe the movement of objects, somethings. Therefore being independent of objects, something, it makes motion a no-thing, nothing, and who needs a creator for nothing.

This brings Nothing, No-thing into a meaningful logical, broad, lawful, positive, really existing relationship with its opposite Something. All because of a new understanding of motion.

The Conclusion

Because of the creation of opposites within the human mind there are always two aspects to consider which imply a third aspect, a decision, to be made relative to the two opposites and from that decision motion in a new direction is initiated.

How could it be otherwise for we started with the 3 aspects of (motion), space, time, and motion $V=S/T$.

Thus there are 2 completely separated opposite frames of reference of motion for viewing and understanding the universe of which such motion makes up.

What are they.

The first frame of reference is stationary. This is the one we inherited from our ancestors. In this frame of reference nothing is not moving and the objects are also not moving. They are stationary, and motion has been taken out. This is the point science starts from when they measure motion. A relative motion of course. They start with zero motion. But the only way to have no motion is to take the elements of motion and separate them. See space and time as separated entities.

But we “see” sense time and space, the elements that make up motion and with no way to understand how the original motion came to be we create an outside Unknown source, God to explain it away. At present all activity of the human race is within this artificial framework. It is artificial because it has no tie in to reality. A reality which is all moving, a universe of motion. It allows for the concept of infinity to be introduced as a real existent instead of a theoretical concept existing only in the human mind because with no motion you can postulate instant movement taking zero time across light years of space. But with zero, (0), time you have taken time out of the equation of motion and have no motion at all.

The second frame of reference is the moving frame of reference. Motion already exists in the frame of reference because it is the frame of reference. I know how did the motion get there? Well as stated before it doesn't, need to get there because IT IS NOTHING and it was already here. I would say that this understanding is challenging only because It is a new concept. Somewhat like the ancients who not realizing the nature of gravity and the lack of friction in space concluded that Gods were moving everything around.

This moving frame of reference does away with infinities because with $V=S/T$ you can have varying degrees of motion, fast or slow relative motion. No motion, stationary is out as is infinite motion.

To Sum up

The stationary frame of reference is a nothing, contains no things, that is not moving.

The moving frame of reference is a nothing, contains no things, that is moving. This frame of reference is the outward expansion at the speed of light of THE MOTION OF NOTHING. We sense the space aspect of motion because of gravity as the "stationary " world of everyday objects. We experience the time aspect of motion as the ongoing outward progression of time that we cannot stop or alter in any manner. This is exactly the results to be expected of the reciprocal nature of space to time in the equation of motion. What happens to one aspect appears to work opposite in the other.

These are theoretical concepts, each a Basic Concept within our mind that plays out it's nature on our inherited and acquired ideas about life that then cause us to act and behave in the way we do.

The stationary frame of reference by it's nature must, will only reveal an illusory world unique to a self-centred individual. This because it has no tie in to reality. It is effectively floating in air with no foundation.

The moving frame of reference is tied into reality because it is based on a foundation that actually exists, One that we experience and sense, Motion. A Universe of Motion. When understood properly this must result in a true factual understanding of it all. A Universal understanding.

For more detailed information please look at my three previous essays on fqi website

CATEGORY: The Nature of Time Essay Contest (2008)

TOPIC: The Foundation of Physics and the Explanation of Time by Gerry L. Klein

CATEGORY: Questioning the Foundations Essay Contest (2012)

TOPIC: The Fundamental Assumption That Is Wrong Is the Basic Concept That a Stationary Frame of Reference Can Be Used To Understand a Universe of Motion by Gerry Klein

CATEGORY: Trick or Truth Essay Contest (2015)

TOPIC: MATHEMATICS AND PHYSICS AT THE FOUNDATIONAL LEVEL THE WAY AHEAD IS TO KNOW ITS BASIS, ITS ORIGINS IN EMPIRICAL KNOWLEDGE OF THE NATURE WORLD by Gerry Klein