

Questioning the Foundations

Which of Our Basic Physical Assumptions Are Wrong?

- Is there a beginning to the Universe?
 - Is Thermodynamics, absolute?
- Continuous Motion by way of natural forces – Yes it is true.

Our basic assumptions are askew in many facets, as we are still neophytes, when it comes to knowledge and its boundless or infinite reaches, not yet discovered. Many of our scientific premises to date have merit and rest as caryatides, upon the shoulders of our elders, but they should not be held sacrosanct, as there is much to unravel, and much that never will be – forever unraveled...

You see: the finite mind, is limited in scope. It is circumscribed by definition, and therefore can never know all things, or infinite things. For if an infinite sentient mind could know all things, it would create a circumscribed infinity. And Infinity has no Alpha, nor Omega, no space, no time, yet all time and all space, all at one time. Hence, Infinity cannot be traditionally defined, as if it could be it would no longer be infinite, it would have parameters and become finite. Infinity is an anomaly to finite sentiency. *Always has been and always well be. [PERIOD]* Mathematicians know this reality, just as any super computer does as well, as factoring infinity into a logical sense, would burn up any super-computer to resolve an infinite question. NOTE: It is surprising that we as sentient beings, do not more regularly fry our brains, attempting to solve the reality of infinity, which is infinitely unsolvable. The ultimate mystery, we are all trapped within - for all time. A claustrophobic nightmare to some people I am sure... A certain truth, forever undefined, save in undefined terms.

This predicament gives us limitless life, seeking knowledge, as knowledge is infinite. That is the beauty of science and the truth's it provides on a daily basis. Any other knowledge outside of science is of a meta basis, and is suspect always to human kinds limitless "Invented Knowledge", mythologies, and wishful thinking's. Science is a venture, to the contrary. It is the face of truth, even though it is never fully known. But if you want to believe in a truth, science is a 9 to 1 bet, versus meta-science, Shaman or spiritual beliefs, and the mythologies, that once acted as the basis for all knowledge. With the advent of science, we broke out of "invented knowledge", and found a home much closer to what is true.

The journey of science is the actual face of God, if one believes in such things. Science is certainly the closest thing to truths journey we will ever engage in our lifetimes.

Is there a beginning to the universe?

NO. Is the simple answer. However, some may ask what is meant by a beginning. Well, in a scientific realm, I would believe you could argue that a Beginning, is born in every moment, and therefore, your answer might be a “YES”, to the question above. In other words, Infinity has no beginning, start point. However, it could be said, that it therefore begins in every moment, since it cannot have an end or beginning. You see: Something always has to have been somewhere at all times. It is an absurd notion to suggest, that nothing ever existed. It is a double negative. It just is not real. Therefore, every moment within time and space is all there is, or will ever be. No beginning, nor an end. Now as far as our big bubble Universe known as the Big Bang. It had a beginning, but it exists in a universe, much larger called infinity, so it is no bigger than a proton, within a spec of sand. Actually, it is much smaller, beyond definition, because it is part of infinity. Crazy stuff? Perhaps, but that is the way the world turns... Believe it or Not!

This is the bizarre reality that provides us with life as finite creatures. It could not be any other way. We are forever trapped in a continuum that defies understanding, as again, to understand it, would be to define it. And as I have said, anything defined is not infinite. So as a finite being, you are forever separated from the infinite, and visa-versa. Yet the infinite and finite work together. Now explain that?

Issue two and three: subtitled above are very much in conjunction with one another:

Is Thermodynamics absolute? And Continuous Motion – be true!

Regarding thermodynamics: No. But! In many ways Yes. Between the quantum mechanics and relative mechanics, we have some nuanced differences that are being uncovered more and more. For example, refer to: [1] Titled: “The Long Arm of the Second Law.”.

Additionally, the laws of thermodynamics are constricted within the parameters of relative heat and motion. They do not take in account the nature of the nature forces, such as magnetism, gravity, and static electromagnetism, in a realm that is both harbored via both liner and non-liner motions. As I will explain later. As such continuous motion, not perpetual motion becomes possible. I use the term continuous, rather than perpetual, because materials wear out, they atrophy, and need replacement, so continuous motion is a more accurate term, albeit, the net effect is essentially perpetual motion.

Continuous motion, is possible via a couple of mechanical approaches. I first developed the idea of magnetics when I was a young pre-adolescent boy, but later moved it to using electro-statics both along with gravity to achieve the same result. I will outline both the electro-static method and secondarily the gravity and magnetism for the purposes of this essay. However, my emphasis, will be on the electro-magnetic and gravity system.

The concept is remarkably simple:

1. Please refer to [2] Title "**Section Three**" is the Universe Analog or Digital"

The essence of this Essay to follow-up with some previously written and important concepts, that would change the world, as we know it today. It would unify our species as we more fully use science to ameliorate our differences, into a unified form.

I have been brief in this essay on purpose, as I am usually much more verbose. If you find what I have to share of some interest, I hope it challenges your interests and you will pursue it to greater lengths. Only good can eventually come of it. That is my greatest hope.

Thank You,
Russ

[1] Author: J. Miguel Rubin, Article: The Long Arm of the Second Law", Magazine: Scientific American, October 2008, Pages: 63-67

[2] My Own Personal Reference: Author: Russ Otter, Article: Is Reality Analog or Digital, Website: FQXi Community, February 2011. http://fqxi.org/data/essay-contest-files/Otter_Our_Universe_Digital_1.pdf Additionally posted @ <http://otterwrite.blogspot.com/2010/10/our-universe-science-and-potentials-in.html>