Re: johnreed take 1.2

Source: http://sci.tech−archive.net/Archive/sci.logic/2004−09/0999.html

---

From: |−|erc (*gotch_at_beauty.com*)
Date: 09/11/04

Date: Sat, 11 Sep 2004 23:32:38 GMT

> *Today the mathematical descriptions of the universe on the blackboard*
> *and in the published papers, are abstract and devoid of any conceptual*
> *connection to OUR physical reality*

Herc

"johnlawrencereed" <randamajor@yahoo.com> wrote in
> *Today the mathematical descriptions of the universe on the blackboard*
> *and in the published papers, are abstract and devoid of any conceptual*
> *connection to physical reality. The American physicist, Steven*
> *Weinberg, wrote, "... it is always hard to realize that these numbers*
> *and equations we play with at our desks have something to do with the*
> *real world." With the phrase, "...something to do with the real*
> *world", Weinberg reveals that the mathematician has an unformed idea*
> *as to what his abstractions represent conceptually. Consider the*
> *words of the late Hungarian mathematician and physicist, Eugene P.*
> *Wigner, "...the enormous usefulness of mathematics in the natural*
> *sciences is something bordering on the mysterious... there is no*
> *rational explanation for it." It is in the contemplation of the*
> *mathematics and the operation of the stable systems in the universe,*
> *that I found the rational explanation for it. Galileo may have been*
> *the first to formally assert that, "...the laws of nature are written*
> *in the language of mathematics." Today we may elaborate. Stability*
> *in the field requires economy in cyclic motion. The invariant aspects*
> *of the stable systems within the physical universe, toward which we*
> *necessarily direct our investigative efforts, derive from least action*
> *functions*. It is illuminating to note that the action stable systems*
> *must follow to maintain perpetuity in the field, is precisely an*
> *action that mathematics represents well. The mathematics fits the*
> *stable universe because mathematics easily represents the economic*
> *properties of stable systems. Consider the continuing words from*
> *Eugene Wigner, "... it is just this uncanny usefulness of mathematical*
> *concepts that raises the question of the uniqueness of our physical*
> *theories."*
>
> *The uniqueness of our physical theories is defined by the properties*
> *they retain after reduction to their most basic state. In this form*

> *they are consistent with, or reduced to, the orders of form attendant*
> *to an instant or complete cycle of stable system action, be it as in*
> *the inverse square property of an economic sphere, the circumference*
> *line segment ratio to its radially enclosed area in the Euclidean*
> *circle, or the planet's trajectoral time interval ratio, and its swept*
> *out area of the orbital conic.*
>
> *Wigner approaches the idea that we can experimentally isolate a*
> *quantity with a local numerical magnitude and if that quantity*
> *operates within least action parameters, without influence, or effect,*
> *it can be proportionally applied to other stable systems, by virtue of*
> *the invariant, economic, time−area, or frequency−wavelength aspects,*
> *common to each stable system. In fact, mathematical models of stable*
> *physical systems are conceptual creations of the observers. The laws*
> *that result from mathematical abstractions derive from a physical*
> *system's potential for stability and not from its experimentally*
> *isolated operational quantities. This is not to say that there are no*
> *underlying reasons for the order we observe in the universe, beyond a*
> *principle of least action. Rather, it is to say that our classical*
> *laws are derived solely from the principle of least action and beyond*
> *this we know nothing.*
>
> *Aside from the kinematic quantities common to stable systems, our*
> *operational quantities are limited by our sense perceptions. The*
> *quantity of mass is clouded by our sense of weight and force. Mass is*
> *not acted on by the Earth attractor** and operates within the least*
> *action environment without influence or effect***. Therefore the*
> *proportionality of the quantity mass, can be universally extended*
> *beyond its local value to obtain a superficial fit with the non−local*
> *observed system. Devising an operationally effective mathematical*
> *scheme based on the quantitative notion of mass, OR high energy*
> *particle collision data and principles of symmetry, does not raise the*
> *operational quantities to the level of a physical reality.*
>
> *The fact that we can alter the energy of a proton into transient*
> *energy states we call bosons and fermions causes us to conclude that a*
> *physical proton object is composed of physical quark objects, whereas,*
> *this does not reasonably follow. The quarks have a physical*
> *justification that is dependent on the trails of transitory atomic*
> *fragments created by high energy collisions in the laboratory. I*
> *introduce the question here. Of what significance is an unstable*
> *energy state? Murray Gell−Mann put the theory together from the*
> *particle data available, but he did not believe that it truly*
> *mirrored, real world quantities. Consider Steven Weinberg's words*
> *again "... it is always hard to realize ."*
>
> *Before the publication of The Physics Preview for the 21st Century,*
> *the "... something to do with the real world" aspect of the*
> *mathematics, had not been clearly articulated. As a result we assume a*
> *too literal interpretation for the operational quantities within our*
> *theoretical constructs, and the mathematicians and physicists are*

> *taught, and accept the physical reality of the theories they learn.*
> *What this means for the rest of humanity is: as long as the physicist*
> *has something that works as a mathematical model for a physical*
> *system's action, humanity is stuck with the operational quantities*
> *used within that model. We are given these quantities as real, and we*
> *are told that they are fundamental aspects of the universe. The most*
> *recent additions are the logical result of an unquestioned, never*
> *verified, one hundred year old seminal assumption***** Colored quarks*
> *have no real existence in the universe, yet, today the academic*
> *humanist must reason from a theoretical reality, composed of colored*
> *quarks, joined together with gluons, within a time dilating, curved*
> *space universe. Why? Because mathematics has something to do with the*
> *real world.*
>
> ** A simple example of an economic or least action function, in terms*
> *of its form, is a Euclidean circle. The circumference is the shortest*
> *line length to contain the greatest area. ** The Earth attractor is*
> *the phenomena that we presently assume and call gravity, our feel*
> *force. *** The Earth attractor does not act on mass during free fall*
> *acceleration, during orbit, or in escape velocity from the Earth. ****
> *See Takes 2, 3 and 4 for discussions on mass. ***** The assumption*
> *was that the electron manifests as a particle inside the atom.*
>
> *If you want a response please reply to randamajor@yahoo.com*