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On the Psychology of Physics, A Paper Defining Reality

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Initially, it is Appropriate to Iterate Some Elementary Points

1. At birth, the human being sees itself as defining existence itself – termed the 'Yahweh Effect'.
2. At subconscious level, all information that can be propagated as part of the propagation of the subconscious is, to the subconscious, nothing but part of itself. Locked within the skull, the human subconscious hallucinates colour enabling a window of frequency discernment, and hallucinates sound representing a window of atmospheric disturbance as an integral part of the propagation of the subconscious mind, wherever sight and hearing exist.
3. The identification with an alter-ego is capable of being more powerful than with the self. The evolution of royalty and celebrity amply demonstrates the effect. Rather than seeing ridiculous levels of wealth and prestige for another at one's own expense as unfair, the most usual reaction is accepting, as the image of an alter-ego – usually of the same sex – is 'me' to the subconscious in the absence of an immediate image of the self.
4. All religion is based on the 'Yahweh Effect', trying to place a human – typically male – being at the centre of all things, most usually as an inventor of reality.
5. As one example, the quark, by its development, was in breach of every scientific principle in that it was contrived, incapable of existence outside a human imagination, and wrong. Its initial success reflected purely the need for the subconscious to identify itself with a universe-designing alter ego. Much of 'mathematical principles of natural philosophy' was, in practise, never going to be anything else.
6. The largest scientific experiments in astronomy were not to seek anything relevant such as near-earth objects, but to 'confirm' a human-invented universe coming from a 'big bang' – an attempt at absolute universe creation. The size of the experimental dedication compared to its practical counterparts naturally parallels the relationship of temple to village house in stone-age societies. The pursuit of the 'Higg's boson' was never anything more than the further pursuit of a human universe inventor. The errors: Firstly, no intellect, as a process, is capable of existence without being a propagated entity. Secondly, no propagated entity propagates anything.
7. No theoretical basis exists to physical reality, which means that physical reality is real in its own right. The purely physical reality of physical existence has never been a founding pre-requisite for physics! Demonstrated to children with pucks on an air-table is not momentum or energy or any other linguistic devices, but the nature of physical reality which descriptive reality is applied to: One: Discontinuous mechanical nature in a space which is exactly that – space. Two: Self-sorting. Three: Real (not imaginary). No conservation 'law' is capable of existence unless describing these three conditions.
8. Discerning the difference between propagated pattern and that which propagates pattern, the latter is indivisible. A Beta particle is a propagated intrinsic mechanical state – from pair-birth and pair-annihilation – possessed by an

indivisible, un-propagated particle.

9. With respect to gravitation, the further from the source of the radiated gravitational field of the earth an object is, the less of that radiated field of discontinuous entities that object interacts with as a finite target to that radiation. That is, acceleration due to gravity is proportional to the amount of gravitational field with which a target mass interacts per unit time. Common acceleration at the earth's surface for systems of non-zero inertial mass dictates unambiguously that all systems of non-zero inertial mass are composed of identical, indivisible, physical targets, where targets means true, un-propagated physical particles.
10. The electromagnetic interaction passing from one electron to another electron does not produce the same physical effect as that passing from a positron to an electron, whereby there are two different mechanical states intrinsic to each particle performing the interaction at the speed of light, 'spins', whereby it is required that, such a particle without such a 'spin' would be in motion at a speed greater than c , and, as will become obvious, it is $21/2c$.
11. The only thing which any, necessarily propagated, system of measurement or observation can measure or observe is its own propagation. There is no relativity to the existence of reality, only reality itself – 'Reality is real, not relative.' This purely means that reality is not subject to propagated human ego. Relative motion is solely the relationship between Real motions. Nothing is, by Existence, relative, only Real.
12. The use of the term 'charge' is clearly primitive and far more descriptive of attitude than anything outside human imagination. In Coulomb's 'law', the magnitude of charge is regarded as the ability to both interact with an electrostatic radiation field and the ability to set up an electrostatic radiation field. The first capability is purely that of a finite target. Equating that with the second capability is to make the distribution of an electrostatic radiation field as a target condition – meaning that the same radiation must conform to that which already existed in a resultant neutral form as a background and which was redistributed as a resultant electrostatic radiation field upon interaction with that target which was viewed as charged. In a physical universe, the physical independence of the radiation redistribution speed, c , from whatever motions the target might possess relative anything else in the universe is elementary. In physical terms, the redistribution will be subject to the original background. Notably, physics insists on introducing the constancy of c as if some wildly esoteric condition, rather than a fundamentally expected property of physical reality. The original concept – that the electrostatic radiation field of a 'charge' was created from nothing by the 'charge' was not seen for what it was – by putting divine powers of creation in the hands of a 'charged' particle no less, and nothing less than the most esoteric piece of genuine inanity, possibly of all time. Physics saw, traditionally, these conditions in complete reverse!
13. The introduction of kinetic energy was, by origin, a linguistic means of describing, concerning simple collisions, the fact that any acceleration is subject to the velocity of its propagation. Somehow, the non-mathematical, physical significance was lost on classical physics. When classical electromagnetism saw the, strictly speaking, conjecture of an electromagnetic field to explain non-gravitational action-at-a-distance forces, the velocity of propagation of an electromagnetic field was placed as a constant c , initially in an ether. Acceleration, without which no describable event exists, in those terms was simultaneously depicted with an infinite velocity of propagation, as the physical significance of the velocity of propagation of an acceleration behind the introduction of kinetic energy was entirely missed! The tendency of the human mind to view perfectly physical phenomena as psychological properties was never more marked, though it is true that purely psychological interpretations of physical reality has been inevitable in mathematical principles of natural philosophy, to the subconscious mind, 'my design of nature.'

Human beings may well want more to find their own identity in a form they subconsciously accept than they are capable of wanting to understand reality in its own terms, by a considerable probability. Indeed, one response to this author's pointing out the propagated nature of acceleration as the real basis of kinetic energy was that 'no interest exists in the mere *why* of a physics (theoretical) *what*'. What rest-energy depicts is that a particle of non-zero inertial mass conforms to a propagated entity running on a 'treadmill' at the speed of light in a vacuum, in keeping with the significance of the propagated intrinsic state – 'spin' – of a Beta article. What total energy describes is that the acceleration of an article of inertial mass is a side-effect of that particle's propagation. This denotes that, where electromagnetic field-unit denotes a true particle representing a unit of electromagnetic interaction frequency at a Beta particle, such an electromagnetic field-unit, 'positive' or 'negative', collides with a Beta particle such that the field-unit is converted into the Beta particle with follow-on or recoil depending on the 'spin' sign, and the original Beta particle converted into something else.

14. Some elementary observations of nature may as well be considered at this point. All interaction has a frequency, all frequency is interaction frequency. All events are accelerations – nothing 'masses'. There exists only one form of indivisible particle with three possible states, represented by $v < c$, $v = c$, and $v = 21/2c$. Un-propagated existence does not equal non-existence – there is no origin or exclusion of it possible. The special relativity rest-energy placed the universe of non-zero inertial mass as propagated, while general relativity placed the universe of non-zero inertial mass as the universe, as the human being tends to identify with non-zero inertial mass. Redistribution frequency of electromagnetic field-units from a Beta particle as that of the background which hit that Beta particle, and

considering that of the background which missed, places a particle of non-zero inertial mass in the overwhelmingly rarest condition of any particle condition, and certainly not defining a universe to sate human ego. Wherever cosmology has meant placing particles of non-zero inertial mass as defining the universe, that same cosmology is incorrect physically, if not religiously. Indeed, the extent to which a human ego insists on seeing itself as defining the Universe is nothing short of spectacular.

15. It is the most elementary recognition of physical Reality that any structure which is subjected to external interaction, can only maintain structure where there is interchange between the interacting system and the particles of the structure. All physical, discontinuous interaction at the most fundamental scale is by interchange.
16. The very suggestion that physical reality can be regarded as physically real has proven to be unacceptable for publication in any form from 1986 to the present, a matter which should, at very least in the field of psychology, be seen with considerable amusement. It is evident that reality is not, and never has been, any problem as much as the human disinterest in accepting it. As physical issues are regarded as physical illness, in parallel, psychological issues are regarded as denoting psychological illness. It is trusted that the reader will not be subject to the unfortunate condition of experiencing tantrum and attempting to prevent publication of correct recognition of reality, and not just in the name of freedom of speech – much disregarded in physics publications beyond citing Galileo’s dispute with the Catholic church – but in the name of mental well-being. It is of considerable amusement that physics is dedicated to human universe design from subconscious effects in complete opposition to its espoused purpose at conscious level. To describe reality in ‘the simplest possible terms’ has been suggested as a definition of the practise of physics – which means calling the universe ‘stuff’.
17. The indivisibility of the particle possessing the intrinsic state which makes that particle a Beta particle, it might be added, does not, as one mind put it ‘show that the electron isn’t made of quarks, then.’ It means that the same particle is I: Real, II: Un-propagated, III: Discontinuous particle, IV: Indestructible. Perhaps a new subject is called for which represents a lack of ignorance of the human mind and its prejudices, in effect a subject which could only be called ‘Reality’. If there is more to reality than the physical – for any human a pleasant enough concept despite whatever it would ever have to do with them – then the only way to locate it is necessarily regard reality as physically real so that any such thing would stand out easily, rather than assume the entire thing is nothing but a fantasy of a propagated human mind. Suffice to say, the foregoing will represent the fundamental nature of physical reality in a manner which is in accordance with the subject Reality, rather than that of theoretical physics, its venerable patriarchs and current shamans.
18. The true, un-propagated particle of experimental recognition is given here the name Theon, the ‘th’ unvoiced. To hold up a ruler to reality is to ratio one reality to a related one by preference to reduce prejudice. Thus, the ratio of the mass of the Muon to that of the Pion is examined, and found to approximate to a clear indication of an integral generator:

$$\div [3(3 - 1)/3^2] / [6(6 - 1)/6^2],$$
 confirming an inverse-square, electromagnetic interaction, as also confirmed by the decay mode of the Pion which makes the Pion clearly a Beta particle cluster.
19. That no strong interaction exists is easy enough. What tradition calls the ‘charge’ distribution over a nucleus bigger than hydrogen appears spread over the surface, not lumped into a ‘plum-pudding’ mixture of protons and neutrons held together under any strong interaction. It is also true, and the most elementary observation of any nucleus, that a Beta particle neither possesses, nor requires, the slightest ‘reason’ for its existence.
20. The average condition is given, as a first approximation from mass as the dimensionless ratio of accelerations, for the kinetic energy of one Beta particle in a cluster as outlined, the language of kinetic energy being chosen for the easy relationship with electromagnetic interaction frequency.

$$E_k = m_e c^2 (1 - \gamma^{-2})$$

$$= \varsigma v \zeta m_e c^2 k 2R [(n - 1) \psi_n / (n2R)^2 + j \psi_j / (j2R)^2 - p \psi_p / (p2R)^2],$$

Where

$$\varsigma = \gamma [2 - (v/c)^2]^{1/2},$$

$$v = \gamma [1 - (v/c) \cos \alpha] = 1/\gamma.$$

Further,

$$\psi_n = [r_n^2 - (n2R)^2] + 2R = 2R, \psi_j = \psi_p = 2R.$$

Here, the rest-mass of the cluster is $m_0 = N m_e \gamma$, where $N = n + j + p$, and $j = 0, 2, 4$; while $p = 0, n, n+1$.

R, the average Theon radius emerges as $\div 3.154 \times 10^{-18}$ meters.

21. Some Examples Given by the Method:

N	n-j-p	Cluster
3	3-0-0	Muon
5	5-0-0	Pi meson (+/-)
6	6-0-0	Pion
7	3-4-0	K-meson (+/-)
8	4-4-0	Kaon (neutral, long)
20	6-4-6	Kaon (neutral, short)
9	7-2-0	Proton
10	8-2-0	Neutron
13	11-2-0	Sigma-minus
21	19-2-0	Deuteron
33	31-2-0	Tritium
34	32-2-0	Alpha-3
46	44-2-0	Alpha-4
14	6-2-6	Lamda
15	6-2-7	Sigma-plus
16	7-2-7	Sigma-neutral
17	7-2-8	Xi (+/-)
18	8-2-8	Xi-neutral
21	9-2-10	Omega-minus

The immediate sequence for $N > 6$, with $p = 0$, is, for $j = 2$, N odd: $9 + 4i$, $I = 0, 1, 2, \dots$, in groups of 6, and for N even: $10 + 4i$; while, for $j = 4$, N odd: $7 + 4i$, and for N even: $8 + 4i$, all in groups of 6. One obvious notation for the clusters is .

22. A Theonic interaction is such that no point on the surface of one can slip against a point on another which it touches as given by the consistency of Plank's Constant with regard to 'glancing' interactions – all collisions at first interpretation being 'all-or-nothing' interactions. The nature of the particle is then such that it appears to have no internal restoring force and of arbitrary shape, depending on its history alone, the volume constant against a variable surface area, the whole only averaging a sphere but in no way expected to actually take on such a shape. It has 3 'spin' states, representable not by any conventional angular momentum based on macroscopic mechanics, but only by speed in the absence of computer modelling, these speeds being 0 – the I-state, or gravitational field-unit, c – the II-state, or electromagnetic field-unit, and $(2c^2 - v^2)^{1/2}$ – the III-state, or Beta particle.

23. Total energy can then be easily visualized. A I-state collides with an III-state to be converted into an III-state similar to the original III-state, but with a slight recoil, the original III-state being then converted in the collision to an II-state with its 'spin' alignment determined from its condition as the original III-state.

An II-state collides with an III-state to be converted into an III-state similar to the original III-state but with a final recoil or follow-through depending on the similarity or difference between the 'spin' alignments, while the original III-state is converted into a I-state.

- A I-state collides with an II-state with inter-conversion, the final II-state deflected from the trajectory of the original II-state.
- An II-state collides with another, regardless of 'spin', with inter-conversion alone, as is the case with I-state to I-state collisions.

Of course, that the acceleration of an III-state is a side-effect of its propagation renders the acceleration's propagation direction independent.

It is inevitable that local II-state 'spin' alignments are macroscopically aligned. Interaction with an only resultantly neutral, electromagnetic background gives the III-state a vibrational condition, of average non-relativistic radius of $\bar{r} = 32\pi^2 2R$, with R once more the average Theon radius. Any hiatus in that background is automatically equivalent to a photonic interaction. This all respects the approximation of the non-relativistic classical electrostatics form $\mu c^2 e^2 / \bar{r}$ to $m_e c^2$, with $\mu = 10^{-7}$ in the appropriate units, and e the elementary 'charge'.

Redistribution frequency from a Beta particle indicating what hit it, compared to what missed it, show that any cosmological attempts to portray the universe as solely significant if of non-zero inertial mass is physically incorrect.

24. The Theonic 'spin' – more appropriately, 'wobble' – is expected to give a surface-area-to-volume ratio demonstrating an oscillation frequency, in the absence of any collision, of $(2c^2 - v^2)^{1/2} / (4\pi/3)^{1/3} R$.

25. The particle, behaving a lot like an indestructible drop of fluid, has a velocity, as depicted here, relative to space, or actual velocity as distinct from apparent velocities relative to whatever propagated viewpoints. Space in these terms, while real, unlike discontinuous/self-sorting particles, has no mechanical sorting potential whatsoever. To the physics shaman, space may be seen to 'require' a special, entirely psychological nature. To the intelligent, Space is Space, real and devoid of any mechanical sorting potential. Physical particles are, in Space, where they are.
26. Weight does neither possess, nor require the possession of, any invented reason to exist. Should some origin be, however, seen as an absolute requirement on psychological grounds, the actual existence of pair-birth is at least real, in the process passing the most elementary test of validity of a perceived recognition of nature – that the system recognized is still real even should no propagated human being exist to perceive it.
27. It is elementary that Existence in no way includes non-existence, and Reality – being not confined to particles of velocity less than that of light – is infinite. In mathematical terms, the set of Existence does not to any degree incorporate the set of non-existence: Reality is Infinity.
28. It is physically elementary that any structure under interaction with any radiation, including gravitational, is incapable of maintaining its structure unless by interchange between the particles of the structure and the particles of the radiation.

That the only thing which any process of measurement/observation is capable of measuring/observing is its own propagation is elementary, but not to education. It has become determined that a shamanistic, supernatural universe exists – one that to themselves, subconsciously at least – places them as the theoretical designers of that universe. The constancy of c – perfectly inevitable in a physical, that is self-sorting, Universe – is, to the shaman's mind, twisted into the supernatural and esoteric, a 'startling paradox.' The classic idiocy of an electrostatic field being created from nothing by a charged particle with such divine powers of creation was regarded as 'sensible.' It is obvious that, from such hysterical nonsense as the quark, Higg's boson and much else, that the human shaman is determined to lie itself the designing mind of everything which ever propagated that shaman and will certainly destroy it.

It is the Bridge of Donkeys of All Reality that no macroscopic sorting process exists. Only the physically indivisible is unpropagated, and its discovery paramount to a real science. Never, though, to physics! Clearly, no student of physics ever sought Reality, but rather took on the subject in search of a social identity. Had they been taught Aristotlean physics, they would have regarded it as 'gospel', to be fiercely defended. The very 'science' which has the idiotic gall to cite the story of Galileo versus the catholic church will ban from publication any mention of a suggestion that physical Reality is Real in its own right, in the process defying freedom of speech let alone any semblance of objectivity.

That, should Newton's Second Law of motion be applied to the situation of zero force – giving constant velocity – the fact that the so-called First Law of motion is immediately found to be no law at all is irrelevant. Could a religion's patriarch's 'Laws of Motion' ever be replaced by the Nature of Motion? Patently not by any physicist within their own, hopelessly religious, little mind – Reality having never really been their interest.

Huygens couldn't understand that acceleration is a function of the velocity of its propagation, so later on them arose the Maxwell Error – with the velocity of propagation of an electromagnetic field being placed as finite c , and the velocity of propagation of an acceleration needed to indicate the existence of an electromagnetic field, as the sole physical function of that field, was set at infinity!

Will any human being ever really want to understand a Reality which it will never be the centre of to any extent? By overwhelming likelihood, no! It will prefer a dream-world of self-importance, placing pretend-playing alter-egos as infinitely more important than anyone who is actually able to feed them, as an example.

Just to remind you, you do know that, light being devoid of colour, only having frequency and intensity, colour is purely a psychological process, as much as is sound from atmospheric shock waves and the sensation in the brain of taste from food. To the Reality propagating human beings, it, itself, is silent and invisible. And Real!

Finally, it is necessary to point out the 3 Laws of statistical analysis.

The First Law of Event Generation

The Reality of any event exists solely as the physical Reality generating that event – no perceivable event is either self-generating or self-defining.

The Second Law of Event Generation

In any set of data, no two data mutually co-propagate to any degree. Regression analysis is incapable of Real prediction by virtue of such a practice being the deliberate ignorance of any data-generating Reality.

The Third Law of Event Generation

Whenever an interaction frequency under measurement is greater than the inverse of the minimum time interval required for information generation at the measurement process, then the measured value of an event within such a time-interval is a blur-average and does not describe the nature of the generating interaction over that time interval.

The reader is thanked for their time spent in perusal of this paper - should any reader ever come to read it! It is trusted that its contents may help such a reader to find a physical – innocent – Universe distinct from the psychologically sinister forms of human invention.

Yours sincerely,
Peter Sheehan
May 1985

PS. Better get it banned!