

NOTES BEFORE THE RISK ARISES THAT THE STATE PUTS ME IN A RUN-AROUND WITH PRISON AND INCARCERATION FOR THE PROVOCATIVE POSTER ABOUT BILL GATES

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For many years I have been working to get some empirical fits for several things in Four-Sphere Theory. First, (a) the width of electron and (b) redshift slope, (c) Cosmological Constant and (d) Planck Constant all perfectly coherent. These are empirical fits. And they are crucial to Four-Sphere Theory as a theory capable of displacing (a) General Relativity, (b) Quantum Electrodynamics, and (c) Expansionary Cosmology. Then I have a large amount of evidence that the 1971 time dilation experiments led to drifts of atomic clocks and do not prove any time dilation. These I have done well. I also reproduced Earth-Sun gravity by Van der Waals forces. This eliminates gravity as a mass-based force. Then I have formulated my S4 Electromagnetic Law or Ahmed-d'Alembert Law as a classical wave equation on spinor fields on a four-sphere of radius $R = 3075.69$ Mpc. This simultaneously is approximated by Schroedinger and Maxwell's Equations when restricted to tangent spaces $T_x M \subset T_x S^4(R)$ and I have worked this out already. Thus Four-Sphere Theory empirical work was a major success. The Spinor fields have more symmetry than Maxwell on \mathbf{R}^3 and that I have promoted is the path to resolving the protein folding and other problems. All this is recorded in [4].

I had deviated towards Human Nature and Positive Psychology issues from 2018. It has been four years, and I was hoping to expand my Thyself Inc. with money, but it looks to me like the state wants me to be in the doctor's circuit rather than bringing career racial murderer Bill Gates to justice. He has managed to damage my physical body with extraordinary use of White Power, US War Power, US Industrial Power, and German War Power as well, along with European Black Magic forbidden from thirteenth century.

Regardless, it is my duty as an immortal genius to sketch out the issues that require some deeper understanding.

First, Four-Sphere theory is *mathematically rigorous*. In other words one can put together a mathematically crisp presentation of Four-Sphere Theory that is without any mysticism at all. It is a deterministic theoretical physics with a clear law, S4 Electromagnetic Law, and it is a so-called classical field theory with basic objects spinor fields on a round four-sphere.

It's easiest to understand setting $R = 1$ instead of the calibrated large value $R = 3075.69$ Mpc. Let ΣS^4 be the spinor bundle on the round four-sphere. This is the vector bundle with an action of $Spin(4)$ which is the double cover of $SO(4)$ the rotations of $T_x S^4$ at each point. We can call *smooth sections* $s : S^4 \rightarrow \Sigma S^4$ the

standard spinor fields and do the analytical step followed by analysts from Frigyes Riesz on of considering L^p sections and also other Sobolev spaces.

I have chosen to use $L^2(\Gamma\Sigma S^4)$. The notation is not standard; the meaning is clear, I want sections, so I put in the Γ . The important issue is that they are functions from S^4 to the bundle. It so happens that the bundle is parallelisable with Killing spinor basis $\sigma_1, \dots, \sigma_{16}$ and so the analysis easier than for various topologically nontrivial situations for the bundle.

When I do all the above, it is clear that the same sort of analysis that is routinely done for *Fourier series on the circle* will fully rigorise all of macroscopic physics. I have actually shown *L^2 -boundedness of the resolvent for molecular Hamiltonians in Four-Sphere Theory*. This means that molecules will have discrete spectra too by beautiful theory and there are none of the pathologies that affect Schroedinger theory for multiparticle molecules. These had been a bane for the mathematical physicists who were studying Schroedinger perturbation theory.

In fact I claim that my S4 EM electromagnetic potential is the true potential of Nature rather than Coulomb potential, and I show evidence that there is no feasible way to distinguish them without precision much higher in measurements.

There are many partial differential equations that are used today that could be examined in this new theory and they are likely to show some differences from the established versions. I will claim that *those differences shall be finer fit to Nature every time*.

1. THE VISION STATEMENT

Four-Sphere Theory will lead to a sharp match to all macroscopic phenomena that is *always guaranteed to be finer than QED, GR, Expansion*. So that will be borne out by work of Brookhaven National Labs and others.

But there is a different and more profound question that needs to be understood, which goes into the heart of the status of Mathematics in Science, which is whether Mathematics is doing more than providing formalities but actually describing some essence of Nature.

You see, Mathematics is a broad word, and encompasses an enormous amount of things, but there is *coherence* in what is substantial and what is irrelevant in Mathematics. The question is what is the substance of Nature that is being captured by Mathematics, and whether how do we *have certain knowledge about these correspondences*. I would like to propose that *that Mathematics which actually absolutely accurately reflects Nature* is in various sorts of senses distinguished. I am being vague intentionally here because this is a beginning of a journey and not the end. I want to know what exactly within Mathematics reflects Nature without the usual flexibility that Scientists take for granted, where Mathematics is considered a mere *formalism*. The last is necessary in biology and psychology and economics but in fundamental physics it is irresponsible to have *clear answers* without frivolous exuberance that is meaningless entertainment for the bored masses of the world.

This is crucial to philosophy of Nature. Quantum Mysticism of an entire century has made us too fearful of asking difficult questions because Quantum Field Theory *gave us little confidence*. With my Four-Sphere Theory things are different, and we, the human race, shall once again have greater ambitions for our quest for understanding Nature. This is my gift to my beloved people the human race, and I do not believe this is overoptimistic.

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