This Theory Is Zero

Abstract: All QM physicists know about *Lorentz* covariant(9) Dirac equation *real* eigenvalues. All mathematicians know that the limit of a Cauchy sequence of rational numbers is a Cauchy *real* number. So we **postulated** "z=zz+C implies *real*#0" (C constant so δC=0 and z=zz+C eq1 defines the multiplicative properties of **0**) which then implies a rational Cauchy *sequence* with limit 0 that doubles as a *iteration* of eq1in δC=0 that gives the Mandelbrot set. Also plugging eq1 into δC=0 gives the Dirac equation and, with that Mandelbrot set, *generally* covariant Dirac *real* eigenvalues of a Newpde, clearly a big advancement over prior knowledge (See fig2 also.).

David Maker

Summary z=zz+C implies real0 [**postulate0**] (≡z_o, C constant so δC=0 and z=zz+C is eq1) We need that z=zz to define the multiplicative properties of **0** in (eg., Plugging 1≡1+0 into 1=1X1 thereby gives required relations 0X1=0, 0X0=0. See appendix M3 for the (*list* number-**defining**-*symbol*) replacement method of the ring-field axioms:

itself implying z=1+δz into eq1 results in δz+δzδz=C (3) so $\frac{-1\pm\sqrt{1^2+4C}}{2}$ =δz≡dr±idt (4) for C<-¼. So Cis complex. But the definition of real0 implies that Cauchy sequence "iteration" so requires

I **plug**ging the **eq1** *iteration* (z_{N+1}-z_Nz_N=C)into **δC=0.** Given real0, 1≡1+**0** then creates these other rational number eq4 $Real_1$ and $Real_2$(timesi) components of C that then requires two Cauchy sequences or a single ($Real_1$,$Real_2$i) complex iteration (recall z_o=0)implying δC=δ(z_{N+1}-z_Nz_N)=δ(∞-∞)≠0 for some C=($Real_1$,$Real_2$i). The Cs that result instead in finite complex z_∞s (so δC=0)define the **Mandelbrot set** in fig1: it's lemniscate(11) continuity along dr≈dR required by δC=(∂C/∂R)dR=0.Thus δC=0 extremum solution at C_M=-1.75 given its maximum fractal scale jump $10^{40N}XC_M$.See http://www.youtube.com/watch?v=0jGaio87u3A Eg for huge Nth scale |δz| >>1/4

II **plug z=zz+C into δC=0** So using eqs 3,4: δC=δ(δz+δzδz)=δδz(1)+2(δδz)δz ≈δ(δzδz) =δ((dr+idt)^2) =δ[(dr^2-dt^2)+ i(drdt+dtdr)] =**0** = (5)Minkowski metric +Clifford algebra≡**Dirac equation** (See eq7a γ^μ derivation from eq5.). But (N=0, 2D) δδz1 must be small but not zero so it *automatically* provides 2 extra degrees of freedom for the (N=1 2D) independent Dirac dr implying 2D Dirac+2D Mandelbrot=4D Dirac **Newpde**≡$\gamma^\mu(\sqrt{\kappa_{\mu\mu}})\partial\psi/\partial x_\mu=(\omega/c)\psi$ for *ν*,e; $\kappa_{00}=e^{i(2\Delta\varepsilon/(1-2\varepsilon))}$-$r_H$/r, κ_{rr}=1/(1+2Δε-r_H/r); r_H= C_M/ξ= e^2X10^{40N}/m (fractal jumps **N**=. -1,0,1.,) Δε≡m_e, ε=μ are zero if no object B(appendix B). Note both plugins are required.

Spherical Harmonic Solutions to Newpde: $2P_{3/2}$, $1S_{1/2}$, $2S_{1/2}$ at r=r_H since Stable $2P_{3/2}$ at r=r_H

N=0 at r=r_H **$2P_{3/2}$** 3e **baryons** (QCD not required) Hund's rule **$1S_{\frac{1}{2}}$,μ,$2S_{\frac{1}{2}}$τ leptons** (Koide)
4 SM Bosons from 4 axis extreme rotations of e,*ν*.
N=-1 (i.e., e^2X10^{-40}≡Gm_e^2). κ_{ij} is then by inspection the Schwarzchild metric g_{ij}(For N=-1,Δε<<1). So we just derived General Relativity(GR) and the gravity constant G from Quantum Mechanics(QM) in one line.
N=1 Newpde zitterwegung expansion stage is the cosmological expansion.
N=1 Zitterbewegung harmonic coordinates and Minkowski metric submanifold (after long time expansion) gets the DeSitter ambient metric we observe.
N=0 The third orderTaylor expansion(terms) in $\sqrt{\kappa_{ij}}$ gives the anomalous gyromagnetic ratio and Lamb shift *without* the renormalization and infinities.
So $\kappa_{\mu\nu}$ provides the general covariance of the Newpde.
So we got all this physics by *mere inspection* of this Newpde with no gauges! fig1

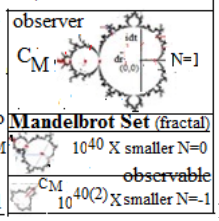


fig2

Conclusion: So by merely *postulating* **0**, out pops the whole universe, no more, no less, BOOM! easily the most important discovery ever made or that will ever be made again.

Note the 'postulate(0)→Newpde' idea answers the most important questions that the mainstream doesn't even ask!!!! (davidmaker.com for backup.) Like:

1) What is the origin of mathematics? (that physics requires)

Answer: list-define *definitions* and (single simple *axiom*) postulate0: z=zz+C implies real**0** (C constant so δC=0. z=zz+C eq1needed for multiplicative properties of 0. See math appendixM)

2) Where does the Dirac equation come from?

Answer: equation 5 (resulting from plugging eq1 into δC=0)

3) Where does the vacuum come from?

Answer: eq.9 (One of the eq6 factors of real(eq5))

4) What is the origin of the complex numbers and space-time?

Answer: eq1 is a quadratic equation resulting in eq.4 giving complex numbers (negative under the discriminant sqrt sign) dr+i**1**dt=ds which is also **the origin of space-time** dr,dt.

5) Why is the speed of light c constant?

Answer: In eq4 the above natural unit **1**=c=dr/dt is always a coefficient 1 for light cone solutions eq.8 of eq6 in uniform space-time (C8). So sect C4 IVth to Ist quadrant rotation through these two *v* solution diagonals also implies a light cone photon since excess mass then cancels given these two Dirac eq. applications.

7) Where does charge come from?

Answer: Charge e^2= CM (Fractal Mandelbrot set CM extremum comes from plugging *iteration* of eq1 into δC=0, Then plug eq.12 into eq16 getting $C_M/m=r_H\equiv e^2/m$.)

8) Where does the cosmological oscillation come from? (We are in the expansion stage.)

Answer: **Newpde** zitterbewegung oscillation on the N=1 fractal scale explaining cosmology!!!

9) Where does general relativity (GR) come from?

Answer: The Newpde κ_{ij} for N=-1 fractal scale(top of fig2).

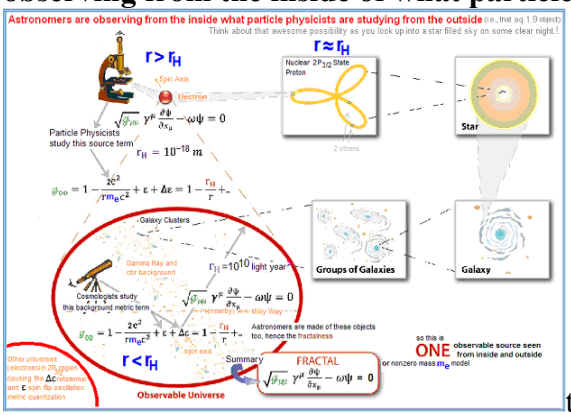
10) Where does quantum mechanics (QM)come from?

Answer: Invariance of eq5 *circle* and so eq11 QM operator formalism. So QM comes from a circle. Also the 3rd order Taylor expansion term of $\sqrt{\kappa_{ij}}$ replaces renormalization(appendix B).

11) Where does the strong force come from?

Answer: Newpde spherical harmonic $2P_{3/2}$ at $r=r_H$ with B flux quantization gives ultrarelativistic +e s (γ=917 explaining large baryon mass) so extremely narrowed E field lines at center hence a huge force there (partII, davidmaker.com. QCD and gluons are not required.)

Results: The selfsimilar scale jumps ($10^{40N}XC_M$, N integer) of fig2 implies **"astronomers are observing from the inside of what particle physicists are studying from the outside",**(fig3)

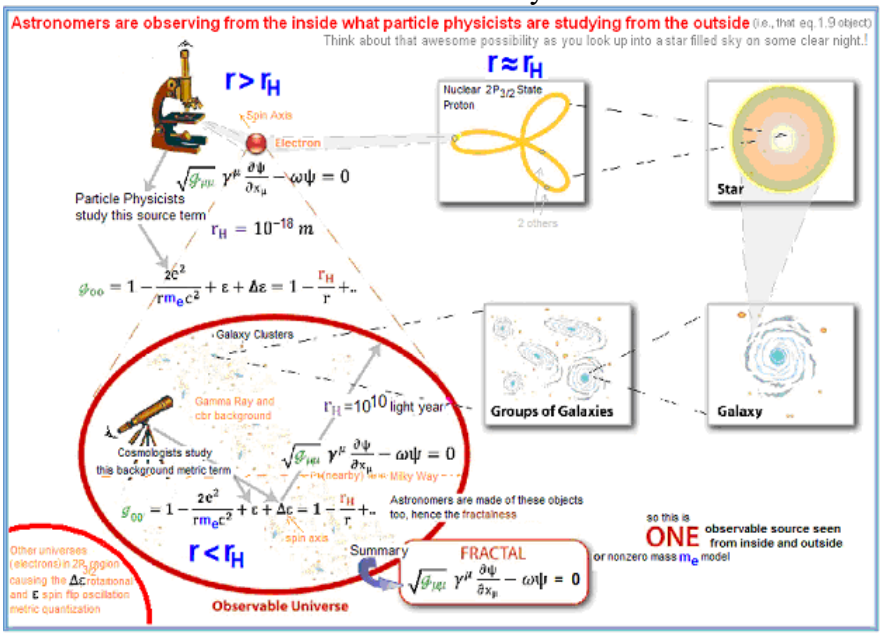


the Newpde electron.Think about that as you look up into a clear night sky: With a single power of 10^{40} scale jump we are back to where we started!

12) Why does the (SM core of modern physics) idea ($SU(2)XU(1)_L$) feature complex numbers?
Answer: SU(2) is rotation in the complex plane, so from eq.4. SM is the ultimate reality check U(1) is CM (see C9)
13) Where does the weak force component of the SM come from?
Answer: We generate the Fermi G_F from object C field tensor(appendix C7)Newpde solution
14) Is there dark matter?
Answer: No. These quantized gravity anomalies (they use for evidence) arise from the fractal nature of space-time instead. So, since there is quantization on the subatomic scale there is metric quantization on the cosmological scale (See end of appendix B and partIII davidmaker.com.).

The mainstream doesn't even ask these important questions, let alone have the answers. Why would you even bother with their thousands of adhoc disjointed convoluted assumptions (QCD, gauges,etc) if you already know these rational and simple "first principles" answers?
Also you might make those dudes happy by telling them that this fractal space time implication of (postulate0) has very cool consequences:

Recall that δC=0 lemniscate extreme dt boundary is in N units 1.23(inside observer) and N-1 fractal scale units 10^{40}X1.23 (outside observer) so two extreme. So the New pde contains that $r_H=C_M/m$ (eq13) with the Mandelbrot set C_M=-1.766..being fractal with selfsimilar scale jumps $10^{40N}XC_M$, N integer. So given that (fig1) C_M fractal selfsimilarity:
"astronomers are observing from the inside of what particle physicists are studying from the outside", that ONE *New pde* e electron r_H, one thing (fig.3). Just think about that awesome possibility as you look up into the night sky on some clear night! *Everything* we observe big (cosmological) and small (subatomic) is then that (*New pde* e) r_H, even baryons are composite 3e (ParII). So we understand, *everything*. This is the only Occam's razor *first principles* theory: The universe just pops out of 0 !!!!!!!!!!!!
Summary: So instead of doing the usual powers of 10 simulation we do a single (at C_M) power of 10^{40} simulation and we are immediately back to where we started! Fig3



The Concept

The concept is simple because it is "simplicity" itself:

"**Ultimate Occam's razor** postulate(0) implies mathematics&Newpde"

given "0 is the simplest idea imaginable" (Hold that thought to get the idea.).

So this is "first principles", thus we have actually figured it out! We completely understand!!!

And so it must work(fig2) and makes sense because all QM physicists know about *Lorentz* covariant(9) Dirac equation *real* eigenvalues and all mathematicians know that the limit of a Cauchy sequence of rational numbers is a Cauchy *real* number. So by **postulating**

"z=zz+ C implies *real*#0"

(C constant so δC=0 and z=zz+C eq1 gets us the multiplicative properties of **0**) there then must be a rational Cauchy *sequence* with limit 0 that then doubles as a *iteration* of eq1in δC=0 that thereby gives the Mandelbrot set. Also we can then plug eq1 into δC=0 to directly get the Dirac equation and given that Mandelbrot set perturbation *generally* covariant Dirac *real* eigenvalues of a **Newpde** that gives physics (Also see fig2). Note these 2 algebra plug ins are thereby *not* optional making this a very powerful postulate.

Newpde$\equiv\gamma^{\mu}(\sqrt{\kappa_{\mu\mu}})\partial\psi/\partial x_{\mu}=(\omega/c)\psi$ for ν,e; $\kappa_{00}=e^{i(2\Delta\varepsilon/(1-2\varepsilon))}-r_H/r$, $\kappa_{rr}=1/(1+2\Delta\varepsilon-r_H/r)$;

$r_H=C_M/\xi=e^2X10^{40N}/m$ (fractal jumps **N**=. -1,0,1.,) $\Delta\varepsilon\equiv m_e$, $\varepsilon=\mu$ are zero if no object B(appendix B

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observer

C_M N=1

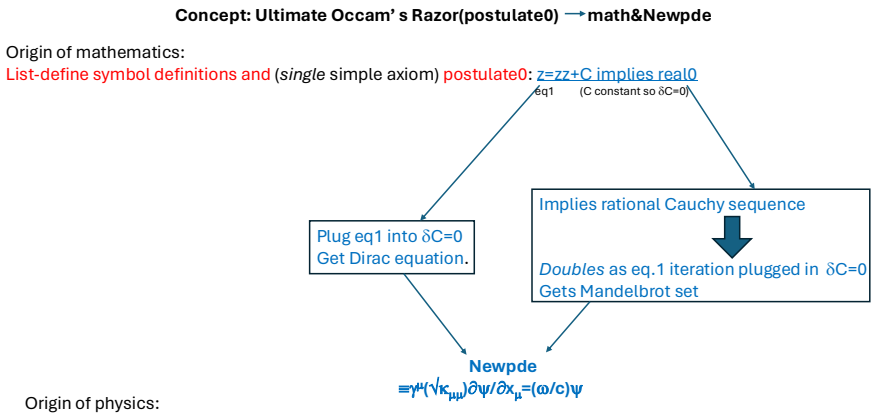
Mandelbrot Set (fractal)

C_M 10^{40} X smaller N=0

observable

C_M $10^{40(2)}$ X smaller N=-1

fig2



Math and physics explained together is the ultimate rationality.

ultimateOccam's razor (postulate0) →
first principles theory→we figured it out→we finally understand(So reason to live!)

The problem with mathematicians is that they **separate numbers** (eg 2,3) **from** variable **symbols** (eg x,y,z,()). So they have to connect them with many axioms(eg rings and fields). By doing things this way they also mess up theoretical physics, making it far more difficult to find that 'first principles' theory(ie postulate0) because they inject so many *bogus* 'first principles' (ie axioms) into the mix. So the mathematicians made a booboo. In contrast that list-define method *defines* the symbols in terms of lists of numbers and thereby eliminates every axiom except postulate0: "z=zz+C implies real0" (C constant so $\delta C=0$. See appendix M.). The number lists are manageable with z=zz+0 (since then the numbers are just 1,0) but still deemed correct with the fractal maximum number $z=10^{82}$. So numbers and symbols are the same things here. Recall postulate0, as well as generating mathematics, also generates theoretical physics.

Dirac got equation 5 (but in an adhoc way) for $\delta z_1=dx_1+idx_2$ (eq4) so randomly extends that flat space result to 4D. But he didn't take into the account the Mandelbrot set perturbation $\delta z_2=dx_3+idx_4$ which gives (eq.7-19) and with eq.7a, a 4D curved space result, the Newpde (.So Dirac made booboo number 2). But forces do exist so over 100 years people have had to add gauge force upon gauge force to compensate for Dirac's boo boo, turning theoretical physics into a junkpile (albeit with correct snippets like GR, QM & GSW.).
So the mathematician's booboo#1 and Dirac's booboo#2 have provided an almost insurmountable barrier to getting a 'first principles' theory (ie postulate0) and so to finally figuring this thing out.