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 thereby 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 an advancement over prior knowledge (Also see fig2.).

David Maker

Summary postulate0: "z=zz+C implies *real*#0". (C constant so δC=0 and z=zz+C is eq1) where z=zz needed for multiplicative properties of **0**. Thus plugging 1≡1+0 into 1=1X1 gives the required relations 0X1=0, 0X0=0 part of appendix M4 'list number-*define* symbol' math method 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 C is generally *complex* in this complex plane. But the definition of real0 implies that Cauchy sequence "iteration" so requires **plug**ging the **eq1** *iteration* (z_{N+1}-$z_N z_N$=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}-$z_N z_N$)=δ(∞-∞)≠0 for some C=($Real_1$,$Real_2$i). The Cs that result instead in finite complex z_∞s(so δC=0)define **Mandelbrot set** fig1Given the fig1 circles,for symmetries other than radial, δC=0 scale dependence is complicated. But δC=0 implies lemniscate min *single* radial scale δC=(∂C/∂R)dR=0 vertical scale variation at–¼+i1.23 and max radial R scale variation at C_M=-1.7 along the first right radial filament. So extreme (-1.766.., -¼) solve δC=0: -1.766=C_M yields lemniscates with 10^{40N}XC_M scaling. So for *observer* huge Nth scale |δz| >>1/4 =-¼ rational Cauchy sequence (z_{N+1}-$z_N z_N$=C) =**-1/4**, -3/16,-55/256, ..**0**.So **0** is a real #.QED Also

Plug eq1 into **δC=0** using

eqs3,4: δC=δ(δz+δzδz)=δδz(1)+2(δδz)δz≈δ(δzδz)=δ((dr+idt)²)=δ[(dr²-dt²)+i(drdt+dtdr)]= (5) =**0**=Minkowski metric+Clifford algebra≡**Dirac eq.** (See γ^μs in eq7a) 2D Mandelbrot+2D Dirac= 4D Dirac **Newpde**≡$\gamma^\mu(\sqrt{\kappa_{\mu\mu}})\partial\psi/\partial x_\mu=(\omega/c)\psi$ for *ν*,e; $\kappa_{00}=e^{i(2\Delta\varepsilon/(1-2\varepsilon))}-r_H/r$, $\kappa_{rr}=1/(1+2\Delta\varepsilon-r_H/r)$; $r_H=C_M/\xi=e^2X10^{40N}/m$ (fractal jumps **N**=. -1,0,1.,) Δε≡m_e, ε=μ are zero if no object B(appendix B

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 **$1S_{e,\mu,}2S_{e,\tau}$ 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.

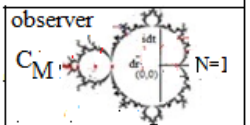
N=1 Zitterbewegung harmonic coordinates and Minkowski metric submanifold (after long time expansion) gets the DeSitter ambient metric we observe.

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!

observer



Mandelbrot Set (fractal)

C_M 10^{40} X smaller N=0

observable

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

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

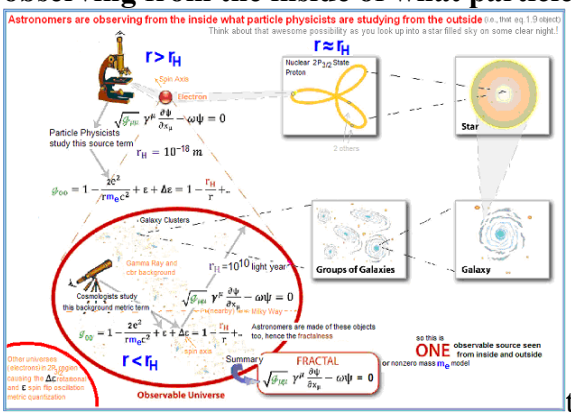
8) Where does the cosmological oscillation come from? (We are in the expansion stage.)
Answer: **Newpde** zitterbewegung oscillation on the N=1 fractal scale explaining cosmology!!!

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.)

Result: 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",**



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!