This Theory is 0

 Abstract: All QM physicists know about *real* eigenvalue (Dirac eq), observables. All mathematicians know that the limit of a Cauchy sequence of rational numbers is a Cauchy *real* number. So all we did here is show we **postulated** *real*#0 by using it to derive a rational Cauchy sequence with limit 0. We did this because that same postulate (of *real*#**0**) math *also* implies the *real* eigenvalues we get from a generally covariant generalization of the Dirac equation that does not require gauges (Newpde), clearly an advance over previous such physics pdes eg the Newpde eigenfunction is for e and v with half integer spherical harmonics (at r=r_H)$1S_{1/2}$=μ, $2S_{1/2}$=τ (Kiode) $2P_{3/2}$ baryons (No QCD required, see fig2). r_H is fractal(fig1) so a coupling implying cosmology.

David Maker

Summary

But we can't **define 0** without z=zz in: (eg plugging 1=1+**0** into 1=1X1 also gets 1X0=0, 0=0X0)

$\qquad$ z=zz+C **eq1** (C constant) implies real0 $\quad$ (≡z_0) $\qquad$ [**postulate0**]

Set z=1+δz in eq1 resulting in δz+δzδz=C (3) $\frac{(-1\pm\sqrt{1^2+4C})}{2}$=δz≡dr±**i**dt (4) $\quad$ C<-1/4 $\;$ *complex* C.

C constant so δC=0 so we must automatically **plug eq1** into **δC=0** (Gets Dirac equation.). But the definition of real0 also requires **plug**ging the **eq1** *iteration* (z_{N+1}-$z_N z_N$=C) into **δC=0** given real0 implies* that Cauchy sequence "iteration" (1=1+**0** then creates these other rational number of eq4 $Real_1$ and $Real_2$ (timesi) components of C that each requires an iteration thereby implying the Mandelbrot set). So these two algebra plug ins are *not* optional making this a very powerful postulate since together the Dirac eq & Mandelbrot set imply Newpde real eigenvalues (fig2).

I Plug *iteration* of **eq1 into δC**=0 (recall z_0=0) implies δC=δ(z_{N+1}-$z_N z_N$)= δ(∞-∞)≠0 for some $Real_1$,$Real_2$.The C s that result in these finite complex z_∞s(so δC=0)define the **Mandelbrot set (**fig1) fractal scale jumps $C_M X10^{40N}$ because the extreme are at -¼>C>C_M since the C=C_M associated imδz in eq.4 is maximum. But for the observer huge N scale |δz| >>1/4. So our iteration z_{N+1}-$z_N z_N$=C is also the rational Cauchy sequence=-1/4, -3/16,-55/256, ..0. So **0** isa real#

II 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)] =**0**= Minkowski metric+Clifford algebra ≡**Dirac eq.** (See γ^{μ}s in eq7a) 2D Mandelbrot+2D Dirac=4D Dirac **Newpde**≡γ^μ($\sqrt{κ_{μμ}}$)∂ψ/∂$x_μ$=(ω/c)ψ for v, Δε≡**e**(eqs20,24,B2) $κ_{00}$=$e^{i(2Δε/(1-2ε))}$-r_H/r, $κ_{rr}$=1/(1+2Δε-r_H/r); r_H=C_M/ξ=$e^2 X10^{40N}$/m (fractal jumps N=. -1,0,1.,)
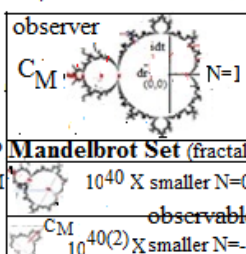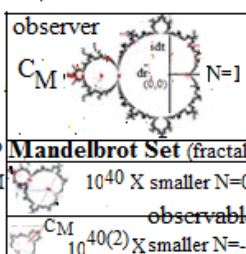

Spherical Harmonic Solutions to Newpde: $2P_{3/2}$, $1S_{1/2}$, $2S_{1/2}$ at r=r_H since Stable $2P_{3/2}$ at r=r_H

$\quad$ **N=0** at r=r_H **$2P_{3/2}$** 3**e baryons** (QCD not required) Hund's rule $1S_{1/2}$,μ, $2S_{1/2}$τ **leptons** (Koide)

4 SM Bosons from 4 axis extreme rotations of e.v.

$\quad$ **N=-1** (i.e., $e^2 X10^{-40}$≡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.

$\quad$ **N=1** Newpde zitterwegung expansion stage is the cosmological expansion.

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

$\quad$ **N=0** The third orderTaylor expansion(terms) in $\sqrt{κ_{ij}}$ gives the anomalous gyromagnetic ratio and Lamb shift *without* the renormalization and infinities.

$\quad$ So $κ_{\mu v}$ provides the general covariance of the Newpde.

So we got all this physics by *mere inspection* of this Newpde with no gauges! $\qquad$ 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.