This theory is 0

Introduction 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 physics pdes. To show this

Define0: *with numbers* 1≡1+0 and definition of list 0≡0X0, 1≡1X1 as *symbol* z=zz (algebraic definition of 0). Also

Postulate *real* number **0** *if* **z'=0** and **z'=1** plugged into z'=z'z'+C (**eq.1**) results in *some* C=0 constant(ie δC=0).

There is of course the obvious C=0 solution but including δC=0 in those above *plugins* adds other Cs. So:

Plug z'=0 into eq.1 get 2D Mandelbrot set

So $\mathbf{z_o=0}$ *into eq1* iteration(plug left side into right side repeatedly) $z_{N+1}=z_Nz_N+C$, (generates the larger numbers z_{N+1} so more *symbol* algebra so calculus defintions) requires we reject the Cs for which $\mathbf{\delta C}=\delta(z_{N+1}-z_Nz_N)=\delta(\infty-\infty)\neq\mathbf{0}$. The Cs that are left over define the **Mandelbrot set** with new eq1 z so $\delta z\leq C_M=10^{40N}$1.4..fractal scaleN jumps

Plug z'=1 into eq.1 get 2D Dirac equation (new 2 degrees of freedom from δz)

So **z=1**+δz into eq.1is δz+δzδz=C. So $\delta z=(-1\pm\sqrt{1+4C})/2\equiv dr+idt$ So bounded complex (Mandelbrot) set δC=0 extreme -¼>C≥ -1.4..=C_M in fig1. For N=1 (big C observer) then δz≈C so δC= $\delta\delta z\approx 0$ and so $\mathbf{\delta C}=\delta(\delta z+\delta z\delta z)=\delta\delta z+2\delta\delta z\delta z\approx\delta(\delta z\delta z)=\delta((dr+idt)^2)=\delta[(dr^2-dt)+i(drdt+dtdr)]$ $=\mathbf{0}$ =Minkowski metric+ Clifford algebra ≡**Dirac eq..** Also δC=0 extremum -¼ Mandelbrot set iteration becomes the rational Cauchy sequence -¼, -3/16, -55/256, ..,**0,** implying **0** is *real*

4D **Mandelbrot** and **Dirac** relation rewritten with N=0 observability(eq.11) and 3D orthogonalization is QM **Newpde**≡ $\gamma^\mu(\sqrt{\kappa_{\mu\mu}})\partial\psi/\partial x_\mu=(\omega/c)\psi$ for e,*ν*, $\kappa_{00}=e^{i(2\Delta\varepsilon/(1-2\varepsilon))}$-$r_H$/r, $\kappa_{rr}=1/(1+(2\Delta\varepsilon/(1+\varepsilon))-r_H/r)$, $r_H=C_M/\xi=e^2X10^{40N}/m$ (**N**=., -1,0,1.,), Δε =0 for neutrino *ν* and N=-1

See davidmaker.com for backups

Spherical Harmonic Solutions to Newpde: $2P_{3/2}$, $1S_{1/2}$, $2S_{1/2}$ at $r=r_H$ 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 $1S_e,\mu,2S_4\tau$ **leptons** (Koide) 4 SM Bosons from 4 axis extreme rotations of e,*ν*

N=-1 (i.e., $e^2X10^{-40}\equiv Gm_e^2$). 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.

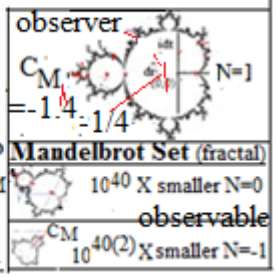
N=1 Newpde zitterwegung expansion stage is the cosmological expansion.

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 κ_{ij} provides the general covariance of the Newpde.

So we got all of physics here by *mere inspection* of this Newpde with no gauges! fig1



•**Conclusion:** So by merely (plugging 0,1 into eq.1) **postulating 0**, out pops the whole universe, BOOM! easily the most important discovery ever made or that will ever be made again. We finally figured it out.

Note a theory with many assumptions is *not* fundamental: so where did those many assumptions come from? Also a first principles theory with the correct ultimate Occam's razor assumption(0), as here, will *not* hit a brick wall, thus the sky is the limit for breakthrough physics innovation coming out of such a theory.