Imagine

Imagine completely understanding the most fundamental theoretical physics (In contrast contemporary fundamental physics is a mess with its hundreds of assumptions.) You, by yourself, would have the world of fundamentally valid physics and resulting engineering innovation all to yourself, breakthrough physics without limit! Pretty cool heh?

Surprisingly, Occam's razor can realize this goal. In that regard recall that Occam's razor says you choose the *simplest* theory if the alternative choices give the same results but are more complicated. Since we always do this anyway why not just 'cut to the quick' and start with the simplist theory of all: rel#**1** (versus many. 0 postulates nothing.)? **Postulate** real #**1** is defined algebraicaly if **z=1** and **z=0** (plugged) into z=zz+C eq1 gives *some* C=0 constant(ie δC=0). So

Given δC=0 plug z= ***0*** *into eq.1* as an iteration (to get *all* C given δC=0) and get the 2D Mandelbrot set C_M≡C fractal scales $\delta z'=10^{40N}\delta z$,N=integer. Define N≤0 as 'observables'scale

That iteration results in a Cauchy seq.confirming '1 is a real#'comes out of above '1'definition

Given δC=0 plug ***z=1*** *into eq.1* (N≥1 observer) and get the 2D Dirac equation $\gamma^{\mu}\partial\psi/\partial x_{\mu}=(\omega/c)\psi$. Since the (z=1) N=1 δz merely perturbs the (z=0) N=0 curved space($\kappa_{\mu\nu}$) δz' we simply add these 2D+2D δz s to get the QM Newpde: 4D $\gamma^{\mu}(\sqrt{\kappa_{\mu\mu}})\partial\psi/\partial x_{\mu}=(\omega/c)\psi$ for e,ν, $\kappa_{oo}=1-r_H/r=1/\kappa_{rr}$, $r_H=e^2 10^{40N}/m$ N=.,-1,0,1,. Note $\kappa_{\mu\nu}$ carries the general covariance.

Consequences: (backups: davidmaker.com/introduction)

Newpde: N=0,stable r=r_H composite 3e $2P_{3/2}$ is baryons(QCD not required), r=r_H e,ν is the SM. Also N=-1 is GR. Expansion stage of N=1 $\delta z' = \delta z e^{i\omega 10^{-40N}t}$ Dirac eq zitterbewegung oscillation is the cosmological expansion, the 3rd order Taylor expansion component of $\sqrt{\kappa_{oo}}$gets the anomalous gyromagnetic ratio so don't need the renormalization infinities. So got all physics

Math: We use that **1**+c≡1Uc to generate a list-define (ring-field) algebra and note again that iteration gives a Cauchy sequence for real# eigenvalues, so we get the rel# math as well.

So (with the math&physics) we understand *everything*, explained the entire universe: Occam's razor really did point the way to what we 'imagined': note merely (plugging z=1,0 into eq1) by **postulating 1**, suddenly out pops the entire friggin physical universe and nothing more,BAM! making this the most important discovery that could ever be made or that will everbe made again

Appendix backups>>

Postulate re#1 if **z=1** and **z=0** (plugged) into z=zz+C eq1 gives *some* C=0 constant(ie δC=0).So δC=0, **z=0**=z_o=z' To find ***all* C** substitute z' on left (**eq1**) into right z'z' repeatedly and get iteration $z_{N+1}=z_N z_N$-C. Constraint **δC=0** requires we reject the Cs for which $-\delta C=\delta(z_{N+1}-z_N z_N)$ $=\delta(\infty-\infty)\neq 0$.The Cs that are left over define the **Mandelbrot set** C_M. eg.$\delta z'=10^{40N}\delta z$, N=integer So N≥1 fractal scale(≡observer) z=0 perturbs N≤0 smaller ≡observable (z=1) with its own δz. So **z=1** in z=1+δz in **eq.1** get δz+δzδz=C (3) so $\delta z=(-1\pm\sqrt{1+4C})/2$=dr+idt if C< -¼(**complex)** (4)

The iteration also results in a Cauchy seq.confirming 1 is a real#comes from above '1'definition

δC=0, **z=1** in z'=1+δz in **eq1** gives for *required* observer N≥1 so |δz|>>1 (observerable N≤0) that **δC=0**= (plug in eq3)=δ(δz+δzδz)= δδz(1)+δδz(δz)+(δz)δδz≈δ(δzδz)=0=(plug in eq.4)=

$$\delta[(dr+idt)(dr+idt)]=\delta[(dr^2-dt^2)+i(drdt+dtdr)]=0 \quad (5)$$

=2D (Minkowski metric, c=1)+i(Clifford algebra→eq.7a) (≡Dirac eq)

Factor eq.5 real $\delta(dr^2-dt^2)=\delta[(dr+dt)(dr-dt)]=0=[[\delta(dr+dt)](dr-dt)]+[(dr+dt)[\delta(dr-dt)]]=0$ (6)

so $-dr+dt=ds, -dr-dt=ds\equiv ds_1$ ($\rightarrow\pm$**e**) Squaring&eq.5 gives circle.in e,v (dr,dt) $2^{nd},3^{rd}$quadrants (7)
& $dr+dt=ds$, $dr-dt=ds$, $dr\pm dt=0$, light cone ($\rightarrow\nu$,v) in same e,v (dr,dt) plane $1^{st},4^{th}$quadrants (8)
& $dr+dt=0, dr-dt=0$ so $dr=dt=0$ defines vacuum (9)

Quadrants give *positive* scalar drdt of eq.7 (if *not* vacuum) imply the eq.5 *non* infinite extremum imaginary$\equiv drdt+dtdr=0\equiv\gamma^i dr\gamma^j dt+\gamma^j dt\gamma^i dr=(\gamma^i\gamma^j+\gamma^j\gamma^i)drdt$ so $(\gamma^i\gamma^j+\gamma^j\gamma^i)=0$, $i\neq j$(from releq5 $\gamma^i\gamma^i=1$)(7a

Thus from eqs5,7a: $dr^2-dt^2=(\gamma^r dr+i\gamma^t dt)^2$

Both z=0,z=1 together using orthogonality to get (2D+2Dcurved space). Thus (z=1)+(z=0)= $(dx_1+idx_2)+(dx_3+idx_4)\equiv dr+idt$ given $dr^2-dt^2=(\gamma^r dr+i\gamma^t dt)^2$ *if* $dr^2\equiv dx^2+dy^2+dz^2$ (orthogonality)so that $\gamma^r dr\equiv\gamma^x dx+\gamma^y dy+\gamma^z dz$, $\gamma^j\gamma^i+\gamma^j\gamma^i=0$, $i\neq j$, $(\gamma^i)^2=1$, rewritten (κ_{ii} from N=0 C_M perturbation ofN=1 eq.7) $(\gamma^x\sqrt{\kappa_{xx}}dx+\gamma^y\sqrt{\kappa_{yy}}dy+\gamma^z\sqrt{\kappa_{zz}}dz+\gamma^t\sqrt{\kappa_{tt}}idt)^2=\kappa_{xx}dx^2+\kappa_{yy}dy^2+\kappa_{zz}dz^2-\kappa_{tt}dt^2=ds^2$. Multiply both sides by $1/ds^2$ and $\delta z^2\equiv\psi^2$ use circle $-i\partial\delta z/\partial r=(dr/ds)\delta z$ inside brackets( ) get 4D $\gamma^\mu(\sqrt{\kappa_{\mu\mu}})\partial\psi/\partial x_\mu=(\omega/c)\psi$ $\equiv$Newpde for e,ν, $\kappa_{oo}=1-r_H/r=1/\kappa_{rr}$, $r_H=e^2X10^{40N}/m$ (**N**=. -1,0,1.,). Also $C_M/\xi=r_H$=small (min) C so big $\xi=\gamma$ boost so z=zz so **postulate 1**. So we really did just postulate 1. **Postulate 1$\rightarrow$Newpde**

The postulate really is just 1 since the C goes to zero (as a limit)fig6).

Results of **N=0** $r=r_H$**:** Newpde composite 3e $2P_{3/2}$ state = baryons (QCD not required) and the 4 Newpde e,ν extreme (quadrant)rotations are the 4 W^+,γ,W^-,Z_o, electroweakSM Bosons.
Also **N=-1** is GR & big $\gamma=\xi=\tau+\mu$ from C_M
So "postulate 1" gives **Newpde** (i.e., all of physics) and real#math, no more, no less (everything)
See backups at davidmaker.com .eg., "Introduction" pdf.

Summary: This
Theory is 1 The rest is a (rel#1) definition.

Theory	Real# 1 **definition**
Postulate 1	is defined algebraically if **z=1** and **z=0** (plugged) into z=zz+C eq1 gives some C=0 constant(ie $\delta C=0$)

So can plug ($\delta C=0$&) **z=0** into **eq1** iteration(to get ***all***C) get 2D(complex) **Mandelbrot** set $C_M=C$ (fractal scale N)
(this iteration also results in a Cauchy sequence confirming 1 is a real# comes from our above '1' definition.)
plug ($\delta C=0$&) **z=1** into **eq1** get 2D **Dirac** equation ((N=1)$\equiv$'observer') perturbing N=0 (z=1)"observables"
combine **both** 2D+2D=4D **Newpde** using $(dx_1+idx_2)_{z=0}+(dx3+idx_4)_{z=1}$=dr+idt & dr 3D orthogonalization
therefore

postulate 1$\rightarrow$ Newpde (So we get all of physics and 1+C$\rightarrow$1$\cup$ algebra and Real#math(1 such C_M iteration is Cauchy) **everything** that is physical, no more, no less. See backups at davidmaker.com eg.,in introduction"
Ultimate Occam's razor postulate 1 so ultimate physics theory, So understand universe completely