Postulate 1

Abstract: Modern fundamental physics theories such as the Standard Model (SM) contain many assumptions. So where do all these assumptions come from? This is not real understanding. It is curve fitting. So why bother? This theory in contrast has only one real *simple postulate:*

Postulate 1

So there is *reason to be excited. This is the only postulate since the 1 in the postulate of 1 generates through symbol definitions the* $1 \cup 1 \equiv 1+1$ *list-define algebra (eg.,appendix C, eq.3.6) natural number underpinning of the* rational numbers*:*

define the real number 1 *from a Cauchy sequence of* rational numbers *(Cantor) using iteration* $z_{N+1}=z_N z_N + C$ *(eq.1a),* $\delta C = 0$ *(eq.1b). In that regard solve 1a for noise C in* $\delta C = 0$ *(eq.1b) and get* $\delta(z_{N+1}-z_N z_N)=0$ *implying* z_N *is finite since* $\infty - \infty$ *cannot equal 0. So as* $N \to \infty$*,* $C \to 0$ *then* z_{N+1} *(defined to be z then) has to approach 1 so eq.1a* $z_{N+1}=z_N z_N + C$ *turns uniquely into* $z=zz+C$ *(eq.1) (eg.,1=1X1+0) thereby*

defining real#1 *in the postulate of 1 as it must. Alternatively:*

Solve the same eq.1a,1b *for C and z(eigenvalues,eq.3.6). So plug eq.1 into eq.1b getting Special Relativity(SR) and a* un*broken degeneracy Clifford algebra (sect.2). Equation1a explicitly defines the Mandelbrot set* C_M*(since* z_{N+1} *finite) with fractal* $(¼)^M$*Mandlebulbs and* $(10^{40})^N$*Xcosmology.* C_M *turns SR into GR and* breaks *that 2D degeneracy into a* **4D** *Clifford algebra of Mandlebulbleptons(eq.9) and associated triplets and singlets (i.e., the SM Bosons, sect.4).*

Summary: Postulate of real#**1**. That is the whole shebang.
So the 1 in the postulate of $1 \to 1 \cup 1$*natural numbers* $\to$*rational numbers* $\to$

Cauchy seq.of rational numbers(same as eq.1a,1b) $\to$ *real#*1*). But eq. 1a,1b also gives eigenvalue math(physics).*
That **4D** *implies we got not more and not less than the physical universe. Also given the fractalness, astronomers are observing from the inside of what particle physicists are studying from the outside, that ONE thing (eq.9) we postulated. So by knowing essentially nothing (i.e.,ONE) you know everything! We finally do understand.*