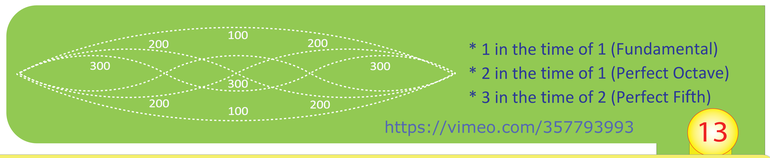
Stringularity sequences Pi:Phi, the Fine Structure Constant (FSC) α & DNA Helix Structure

Consciousness is feedback; it resides in & proceeds from the fundamental harmonic wave-structure i.e. the rates:ratios of the Overtone Series

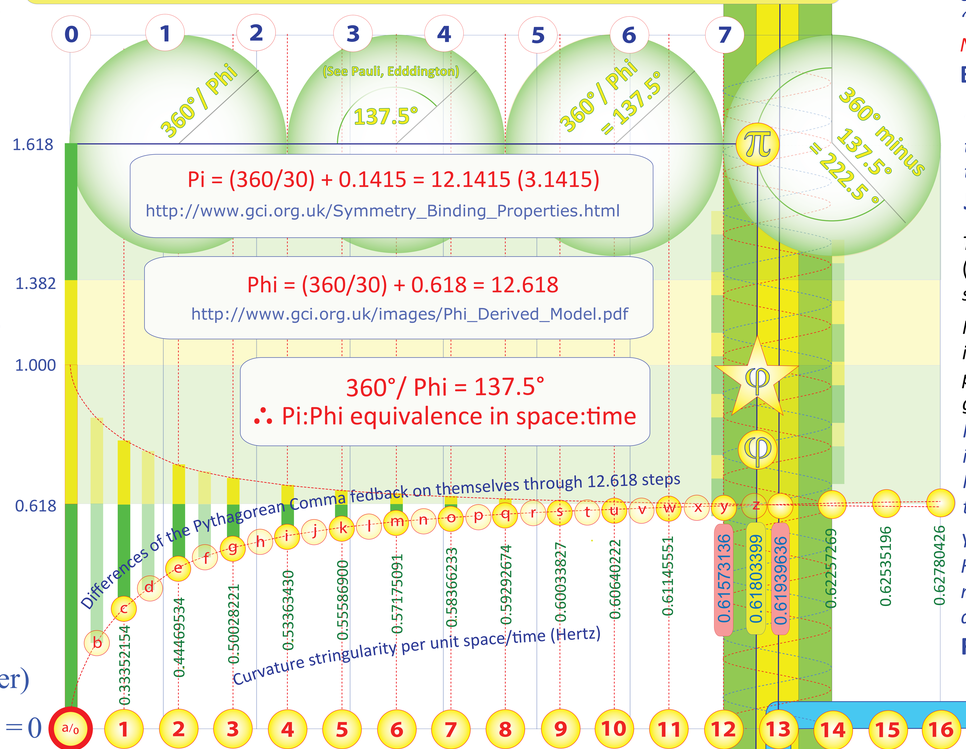
http://www.gci.org.uk/movies/Stringularity_Rates_Ratios_Framed_a.gif

http://www.gci.org.uk/PEB.html



http://www.gci.org.uk/Lao_Tse.html

84 = 7 Perfect Octaves:12 5ths - (Tao te King 7*12 = 84 verses; the answer is 42).



Hertz differences between 12 Perfect & 12 Well Tempered 5ths fedback on themselves, lead from Phi (= 99.99% FSC) back to zero along the Pythagorean Comma deceleration curve derived from the rates:ratios of *Stringularity*.

The fine structure constant describes how electromagnetic radiation affects charge particles. It has the numerical value 0.007297351 (137.03597) with an uncertainty of 6 in the last decimal place & is one of the best-measured numbers in physics.

Born of **Stringularity**, FSC & Phi are fundamental. FSC to the 'photo-electric effect & DNA (Phi) to 'photo-synthesis' (the basis of life).

http://www.gci.org.uk/images/Green_Seen_at_Phi_Point_ROYGBIV.png

Fine Structure Constant (FSC)	0.08542455 *"Where does it come from?"* (Feynman)
Square of FSC	0.007297354 (following Feynman 0.08542455*0.08542455)
1 divided by Square	137.03597705 (as stated below - Feynman)

Despite centuries of scientific progress, we are no closer to answering the question raised by Gottfried Leibniz; "Why is there something rather than nothing?" than we were when he first made this lean distillation of the mystery of existence. Not that there haven't been creative ideas & provocative theories. But in asking a question of ultimate origin, we're seeking an answer that requires no antecedent, an answer that does not shift the question one step further back, an answer that's immune to the follow-on on questions "Why were things this way instead of that? Why these laws instead of those?" No explanation yet proposed has achieved this or even come close.

Brian Greene

"It is my opinion that everything must be based on a simple idea & it is my opinion that this idea, once we have discovered it, will be so compelling, so beautiful that we will say to one another, yes how could it have been anything different."

John Archibald Wheeler

There is a most profound & beautiful question associated with the coupling constant (or alpha α) the amplitude for a real electron to emit or absorb a real photon. It is a simple number that has been experimentally determined to be close to 0.0854255.

My physicist friends won't recognize this number, because they like to remember it as the inverse of its square: about 137.03597 with an uncertainty of about 2 in the last decimal place. It has been a mystery ever since it was discovered more than 50 years ago, & all good theoretical physicists put this number up on their wall & worry about it.

Immediately you would like to know where that number comes from: is it related to Pi or perhaps to the base of natural logarithms? Nobody knows. It's one of the greatest damn mysteries in physics. A magic number that comes to us with no understanding of man.

You might say the 'Hand of God' wrote that number and 'we don't know how He pushed his pencil.' We know what kind of a dance to do experimentally to measure the number very accurately, but we don't know what kind of a dance to do on the computer to make this number come out, without putting it in secretly."

Richard Feynman

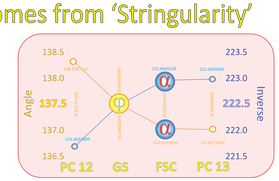
So where does it come from?

Fine Structure Constant 0.61934452 (99.99% PC step 13)

From massless photon to electron-mass - Phi:FSC comes from 'Stringularity'

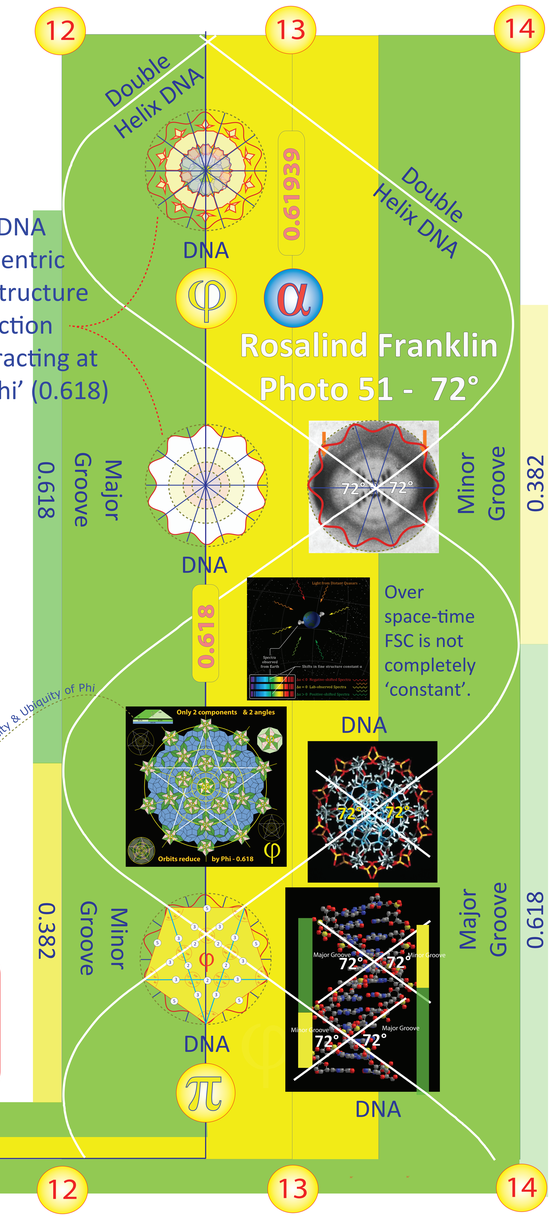
Pythagorean Comma Step 12	0.61573136	221.6632889	138.3367111
Phi the Golden Section	0.61803399	222.4922359	137.5077641
Fine Structure Constant	0.61934452	222.9640229	137.0359770
Pythagorean Comma Step 13	0.61939636	222.9826895	137.0173105

0.619344520



http://www.gci.org.uk/Links_to_Phi_Derived.html

http://www.gci.org.uk/images/Cosmological_Consonance.pdf



φ Phi-derivation is from * Stringularity & symmetry-binding properties from this are: φ:π; φ:α; φ:**DNA Double Helix (72°)**

Spatial Pi ***transcendental;*** Time-derived Phi ***irrational;*** space-time equivalence at Pythagorean Comma step 12.618 and α at PC step 13