The simple functionality of 'Stringularity'

Pythagoras conducted his 'String Experiment', probably in Crotone around 530 BCE. Stephen Hawking has called this experiment 'the first instance of theoretical physics'.

This 'Stringularity' has a simple, robust and precise functionality in space-time thus: -

- * Divide a string of constant length at constant tension in two halves & the frequency (Hz) is doubled (giving the Perfect Octave)
- * Divide a string of constant length at constant tension in three thirds & the frequency (Hz) is trebled (giving the Perfect Octave + Perfect 5th)



The functionality of this 3:2:1 'hemiola' structure is 'harmonic', sounding like this: http://www.gci.org.uk/movies/Stringularity_First_Law_of_Theoretical_Physics.mp4

The 'Pythagorean Comma'

7 Perfect Octaves or 'Doublings' (2^7) notably

* do not `commute' with 12 `Perfect 5ths' (1.5^12) . . .

* but do 'commute' with 12 'Well Tempered 5ths' (1.4983070768^12)

The Hz differences betwen 12 Perfect 5ths & 12 Well Tempered 5ths give the progression known as the 'Pythagorean Comma'.

The simple 'rate derivation of Phi' shows **Neg-Entropy from the 'Pythagorean Comma'**

These Hertz differences fed back on themselves, create in 12 steps, a negative-entropic (gravity) curve between 0.618 & zero, the path-progression of which gives the derivation of Phi' as a rate - the 'Golden Rate' (Meyer 2015). 'Phi' as a rate, gives rise to the 'Golden Spiral', ubiquitous in Nature at all scales, from the tiniest to the most vast. Syntax: - https://www.youtube.com/watch?v=MGGfpa4XkO8 Model: - http://www.gci.org.uk/movies/Phi_Control.xlsx It is close to the photon-electron exchange at the Fine Structure Constant FSC: - http://www.gci.org.uk/images/PC_FSC_GS_c.pdf

'From 1 comes 2, from 2 comes 3 & from 3 come the 10,000 Things' Lao Tse

The 'rate derivation of Phi' from the emergent 'Pythagorean Comma' is a rate-axiom from the simple functionality of stringularity, latent at the 'Big Bang'. Simply, it is at least as old as Providence itself.

In the example shown here, the base-value in Hertz is 100 Hz (i.e. vibrations per second) However, from very large to very small, any value entered still returns the Golden Rate. To demonstrate this, use the model here: - http://www.gci.org.uk/movies/Phi_Control.xlsx



For ultra-precise PC position of 'Phi' see: http://www.gci.org.uk/images/Famous.pdf

The 'shape of the curve'

The axiomatic derivation of Inflation, Schwarzchild Radius, Phi & Fine Structure Constant from the Pythagorean Comma from 'Stringularity' the '1st Law of Theoretical Physics'.

Giving rise to evolution-evolition & not at odds with any science or of any religion, it confirms Lao Tse, "from 1 comes 2, from 2 comes 3 & from 3 come the 10,00 things."

62539 62780 .62998 .63193 .63193 .63369 .63528 0.33352 63672).63804 0.63925 .64139 **(B)** 0.65837 0.65826 64234

> "I have often made the hypothesis that ultimately physics will not require a mathematical statement, that in the end the machinery will be revealed, and the laws will turn out to be simple, like a chequer board with all its apparent complexities."

Richard Feynman



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

John Archibald Wheeler