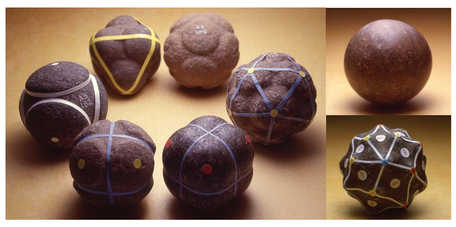


Resonant States of Consciousness and the Golden Ratio Numbering System

Evidence in the sciences has been mounting that there is an underlying mathematics of harmony in nature. It appears that certain ratios e.g. $\sqrt{2}, \sqrt{3}, \sqrt{5}$, and particularly the golden ratio are central to this harmonics. Throughout nature adjacent Fibonacci numbers approximate the golden ratio. The chaos border, fine structure constant, and quark masses, as established by El Naschie, are functions of the golden ratio. In fact, in 2010, the golden ratio or Φ was found at the core of quantum mechanics. Penrose and Hameroff provocatively suggest that consciousness emerges through the quantum mechanics of microtubules. Microtubules are composed of 13 filaments exhibiting an 8:5 phyllotaxis. Clathrins, located at the tips of microtubules, are truncated icosahedra abuzz with golden ratios. And DNA in both its decagonal structure and its Fibonacci guided nucleotide organization exhibits a golden ratio or Φ resonance. Even the heavens seem to be structured according to Golden Fibonacci "phyllotactic" relationships. When viewing Venus from Earth a pentagonal rosette forms every 8 years (or 13 Venusian years) i.e. 13:8::8:5. Also both the mean orbits and mean diameters of Earth and Mercury are in a Φ^2:1 relationship.

These ratios and proportions which appear to govern all of nature, considered by some to be nothing less than sacred, may be accessed through a variety of methods. These include geometric constructions (whether drawing, painting, sculpting, model building or architecture); contemplation of nature's forms (flowers may be the most obvious, but plants in general, animals, minerals, beauty of the human form, and microscopic or telescopic observations); listening to or creating harmonic sounds (music, singing, chanting of words and names, or drumming); and even visualization of harmonic ratios. Some methods of entering resonance include Theurgy, Gematria and Name Worshiping, or "imiaslavie," of the Moscow School of Mathematics. Ramanujan sought a resonant connection with Narashima, the Lion-Man, 4th incarnation of Vishnu, and received visions of scrolls containing profound continued fraction identities linking Φ, π, e, and $\sqrt{5}$.

PHI Identities:

$$\Phi = 1 + \frac{1}{\Phi} \quad \text{and} \quad \Phi = \sqrt{1+\Phi}$$

Taking the first of these and repeatedly substituting for Φ produces the simplest continued fraction:

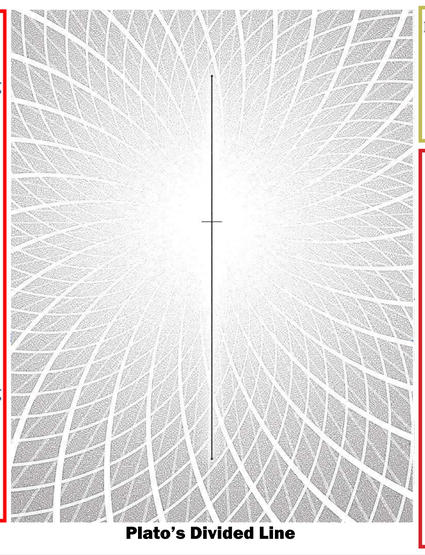
$$\Phi = 1 + \cfrac{1}{1+\cfrac{1}{\Phi}} = 1 + \cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{\Phi}}}$$

$$= 1 + \cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cdots}}}}}}}}$$

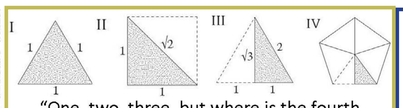
while taking the second and repeatedly substituting for Φ produces the simplest nested radical:

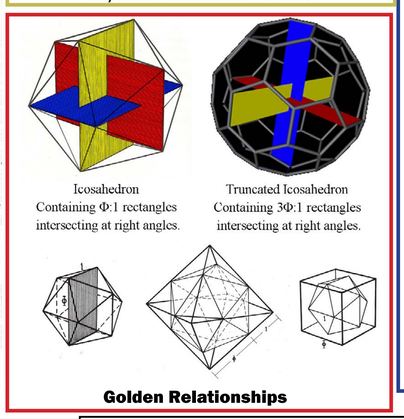
$$\Phi = \sqrt{1+\sqrt{1+\Phi}} = \sqrt{1+\sqrt{1+\sqrt{1+\Phi}}}$$

$$= \sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+\sqrt{1+\cdots}}}}}}$$

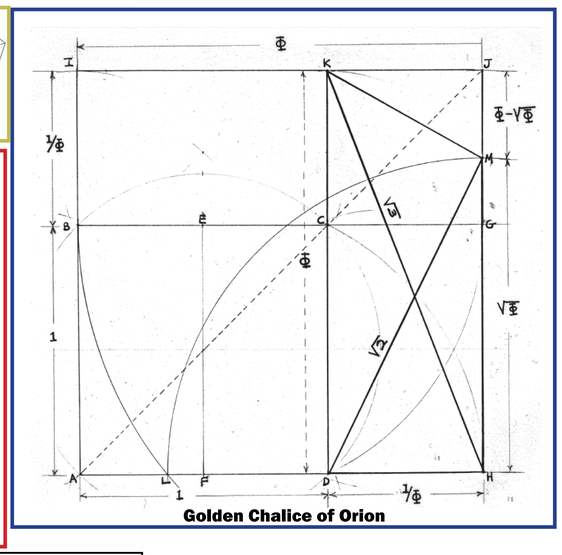


Plato's Divided Line

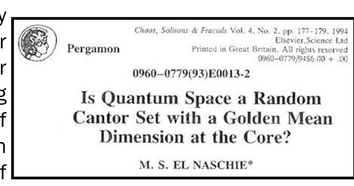




Golden Relationships



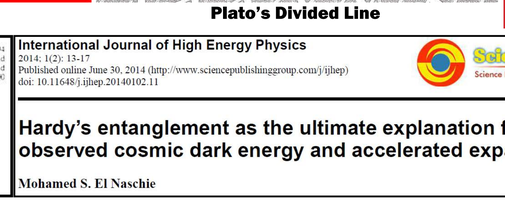
Golden Chalice of Orion



Pergamon — *Chaos, Solitons & Fractals* Vol. 4, No. 2, pp. 177–179, 1994. 0960–0779(93)E0013-2

Is Quantum Space a Random Cantor Set with a Golden Mean Dimension at the Core?

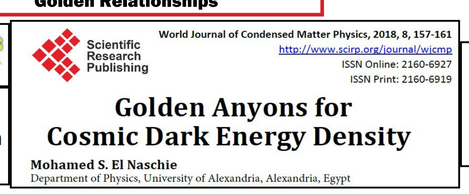
M. S. EL NASCHIE*



International Journal of High Energy Physics 2014; 1(2): 13-17. Published online June 30, 2014 (http://www.sciencepublishinggroup.com/j/ijhep). doi: 10.11648/j.ijhep.20140102.11

Hardy's entanglement as the ultimate explanation for the observed cosmic dark energy and accelerated expansion

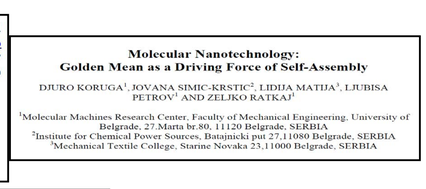
Mohamed S. El Naschie



World Journal of Condensed Matter Physics, 2018, 8, 157-161. http://www.scirp.org/journal/wjcmp. ISSN Online: 2160-6927. ISSN Print: 2160-6919

Golden Anyons for Cosmic Dark Energy Density

Mohamed S. El Naschie. Department of Physics, University of Alexandria, Alexandria, Egypt



Molecular Nanotechnology: Golden Mean as a Driving Force of Self-Assembly

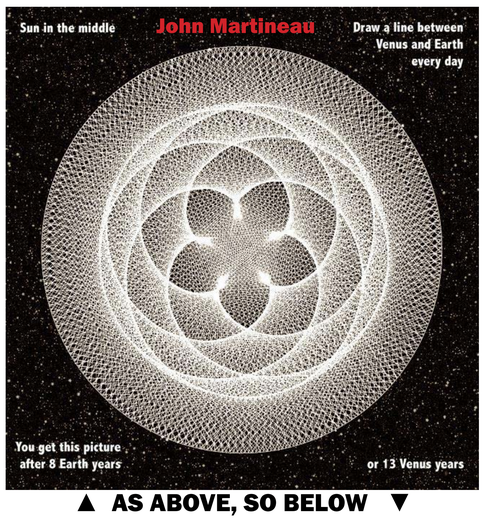
DJURO KORUGA[1], JOVANA SIMIC-KRSTIC[2], LIDIJA MATIJA[3], LJUBISA PETROV[1] AND ZELJKO RATKAJ[1]

[1]Molecular Machines Research Center, Faculty of Mechanical Engineering, University of Belgrade, 27.Marta br.80, 11120 Belgrade, SERBIA
[2]Institute for Chemical Power Sources, Batajnicki put 27,11080 Belgrade, SERBIA
[3]Mechanical Textile College, Starine Novaka 23,11000 Belgrade, SERBIA

Fractal spactime and Noncommutative Geometry in Quantum and High Energy Physics, Vol.1 No.1, 2011, 25-38

When Zero is Equal to One: A Set Theoretical Resolution of Quantum Paradoxes, M.S. El Naschie and Scott Olsen

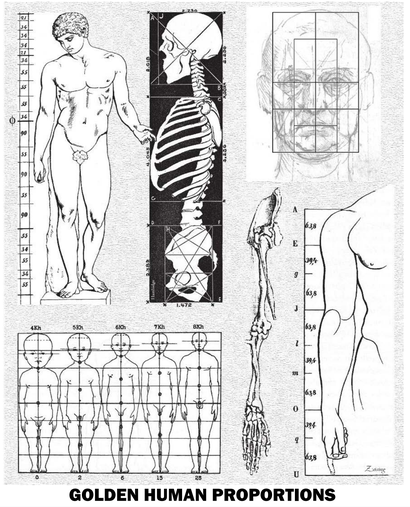
0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, 233, 377, 610, 1597, 2584, 4181, 6765, ...



▲ AS ABOVE, SO BELOW ▼

VIA THE GOLDEN MEAN KEY Φ:1:1/Φ

2, 1, 3, 4, 7, 11, 18, 29, 47, 76, 123, 199, 322, 521, 843, 1364, 2207, 3571, 5778, ...

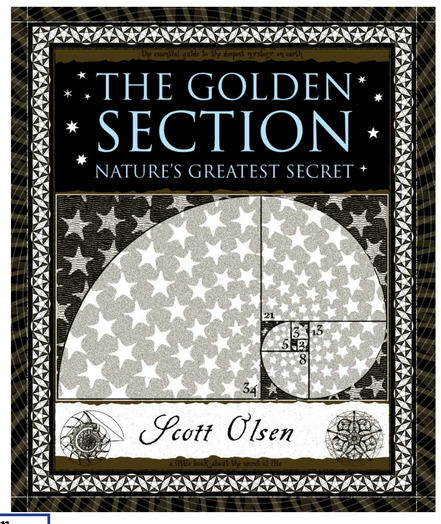


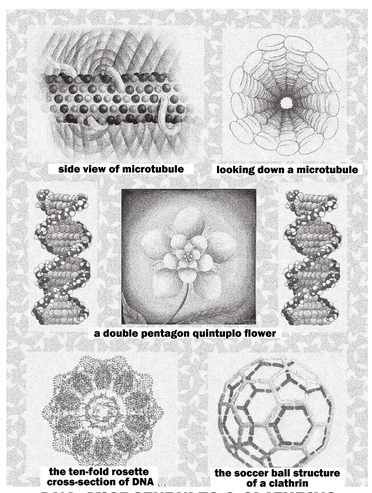
GOLDEN HUMAN PROPORTIONS

growth - the way up

n	Greater	Mean	Lesser
7	Φ^7	Φ^6	Φ^5
6	Φ^6	Φ^5	Φ^4
5	Φ^5	Φ^4	Φ^3
4	Φ^4	Φ^3	Φ^2
3	Φ^3	Φ^2	Φ
2	Φ^2	Φ	1
1	Φ	1	$1/\Phi$
0	1	$1/\Phi$	$1/\Phi^2$
-1	$1/\Phi$	$1/\Phi^2$	$1/\Phi^3$
-2	$1/\Phi^2$	$1/\Phi^3$	$1/\Phi^4$
-3	$1/\Phi^3$	$1/\Phi^4$	$1/\Phi^5$
-4	$1/\Phi^4$	$1/\Phi^5$	$1/\Phi^6$
-5	$1/\Phi^5$	$1/\Phi^6$	$1/\Phi^7$
-6	$1/\Phi^6$	$1/\Phi^7$	$1/\Phi^8$
-7	$1/\Phi^7$	$1/\Phi^8$	$1/\Phi^9$

diminution - the way down





DNA, MICROTUBULES & CLATHRINS

IAMBLICHUS AND THEURGY

©Freund Publishing House Ltd. International Journal of Nonlinear Sciences and Numerical Simulation 7(2),133-136,2006

An Investigation of Fibonacci-like Sequences in Biology and Mathematics

M. I. Al-Suwaiyel — *Communications and Information Technology Commission, P O Box 75606, Riyadh 11588, Saudi Arabia, Email: msuwaiyel@citc.gov.sa*

D. Alani, A. Al-Swailem — *King Abdulaziz City for Science and Technology, P O Box 6086, Riyadh 11442, Saudi Arabia, Email: dalani@kacst.edu.sa alswailem@kacst.edu.sa*

Bulletin of Mathematical Biology (2008) 70: 643–653. DOI 10.1007/s11538-007-9261-6. ORIGINAL ARTICLE

Nucleotide Frequencies in Human Genome and Fibonacci Numbers

Michel E. Beleza Yamagishi[a,b,*], Alex Itiro Shimabukuro[c]

SHRINIVASA RAMANUJAN'S Continued Fraction Identities

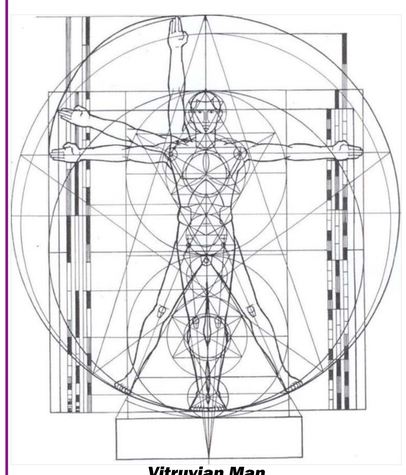
$$\frac{1}{\left(\sqrt{1+\left[5^{1/4}(\Phi-1)^{1/2}-1\right]-\Phi}\right)e^{2\pi/\sqrt{5}}} = 1+\cfrac{e^{-2\pi\sqrt{5}}}{1+\cfrac{e^{-4\pi\sqrt{5}}}{1+\cfrac{e^{-6\pi\sqrt{5}}}{1+\cfrac{e^{-8\pi\sqrt{5}}}{1+\cfrac{e^{-10\pi\sqrt{5}}}{1+\cdots}}}}}$$

$$\frac{1}{\left(\sqrt{\Phi\sqrt{5}}-\Phi\right)e^{2\pi/5}} = 1+\cfrac{e^{-2\pi}}{1+\cfrac{e^{-4\pi}}{1+\cfrac{e^{-6\pi}}{1+\cfrac{e^{-8\pi}}{1+\cfrac{e^{-10\pi}}{1+\cdots}}}}}$$

Metaphysics Century XXI. Moscow: BINOM, 216-250. (2006)

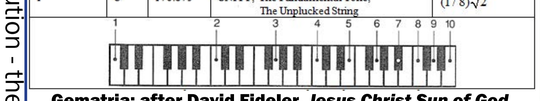
Metaphysical aspects of the matrix analysis of genetic code and the golden section

S.V. Petoukhov

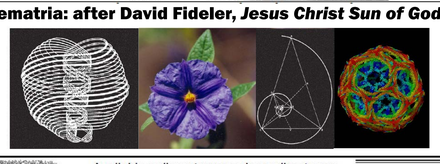


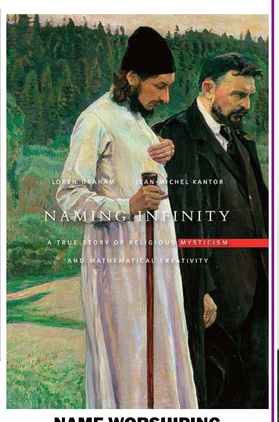
Vitruvian Man by Lance Harding

Vibrational Frequency	Note	Exact Frequency Value	Greek Gematria Value (Note: Gematria Value Equivalences allow for ±1, thus e.g. 706 or 708 = 707)		$\sqrt{2}$ Equivalences (multiply by 1000)
10	E2	1768.75	1768	=THE GOD APOLLO + HERMES =APOLLO + THE GOD HERMES	$(10/8)\sqrt{2}$
9	D2	1591.875	1592	= APOLLO + LYRE	$(9/8)\sqrt{2}$
8	C2	1415	1415	= THE GOD APOLLO	$(8/8)\sqrt{2}$
7	B flat	1238.125	1238	=THE GOD HERMES + LYRE	$(7/8)\sqrt{2}$
6	G1	1061.25	1061	= APOLLO	$(6/8)\sqrt{2}$
5	E1	884.375	884	=HERMES + LYRE	$(5/8)\sqrt{2}$
4	C1	707.5	707	= THE GOD HERMES	$(4/8)\sqrt{2}$
3	G	530.625	531	= LYRE	$(3/8)\sqrt{2}$
2	C	353.75	353	= HERMES	$(2/8)\sqrt{2}$
1	C	176.875	UNITY; The Fundamental Tone; The Unplucked String		$(1/8)\sqrt{2}$



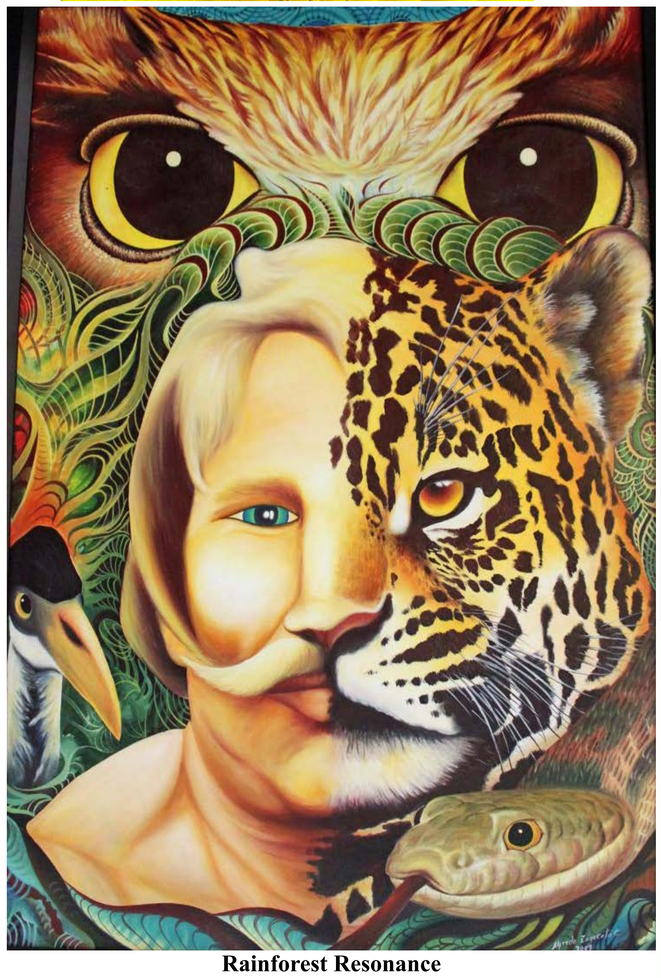
Gematria: after David Fideler, *Jesus Christ Sun of God*





NAME WORSHIPING AND RESONANCE (IMIASLAVIE)

"The way up and the way down are one and the same!"
-Heraclitus, *The Riddler*



Rainforest Resonance
with Flora and Fauna Medicine-Teachers

Available online at www.sciencedirect.com — ScienceDirect — Chaos, Solitons and Fractals 37 (2008) 317–323 — CHAOS SOLITONS & FRACTALS — www.elsevier.com/locate/chaos

An outline for a quantum golden field theory

M.S. El Naschie

International Journal of Innovation in Science and Mathematics, Volume 6, Issue 5, ISSN (Online): 2347–9051

Golden Mean Unification Via Fractional Statistics Leading to the Accurate Cosmic Dark Energy Density of a Cosmos with Pointless Geometry

Mohamed S. El Naschie

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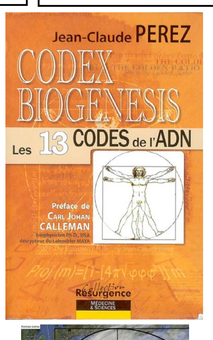
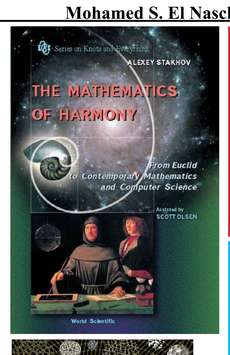
El Naschie & Olsen in Conversation Series 3, part 8.

Conclusion

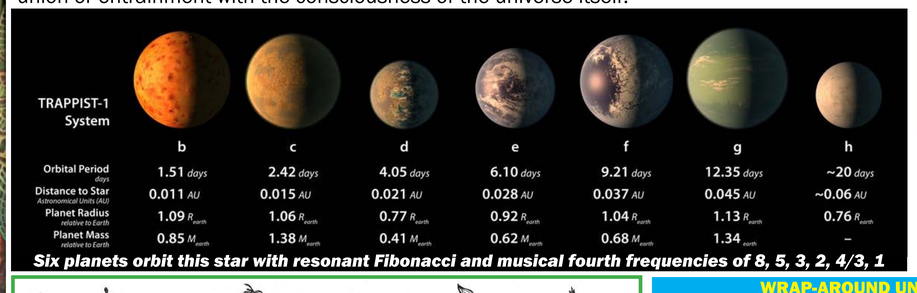
Resonant techniques of transformation appear to be centered in the mathematics of harmony underlying nature. Humans may well be hardwired for attunement with the ratios underlying nature's form and function. Like tuning forks seeking union or resonance, resulting transformative states of bliss have traditionally led humanity to expanded states of awareness. Perhaps Siddhartha Gautama was right, the body is an eye. And when in a state of quantum coherence with nature's divine ratios, one may even achieve the yogic state of Samadhi, or cosmic consciousness, blissful union or entrainment with the consciousness of the universe itself.





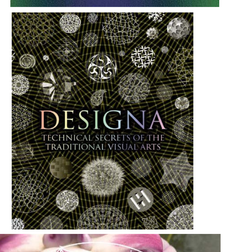
CURRENT & CONSTITUENT QUARK MASS AS FUNCTIONS OF Φ AND 1/Φ.

Quark Flavor	Current Mass (MeV)	Constituent Mass (MeV)
Up	$2\,\Phi^2 = 5.236\ldots$	$80\,\Phi^3 = 338.885\ldots$
Down	$2\,\Phi^3 = 8.472\ldots$	$80\,\Phi^3 = 338.885\ldots$
Strange	$10\,\Phi^6 = 179.442\ldots$	$10\,\Phi^8 = 469.787\ldots$
Charm	$300\,\Phi^3 = 1{,}270.82\ldots$	$20\,\Phi^9 = 1{,}520.263\ldots$
Beauty (Bottom)	$10^3\,\Phi^3 = 4{,}236.067\ldots$	$100\,\Phi^8 = 4{,}697.871\ldots$
Truth (Top)	$10^4\,\Phi^3 = 42{,}360.679\ldots$	$10^4\,\Phi^6 = 179{,}442.719\ldots$



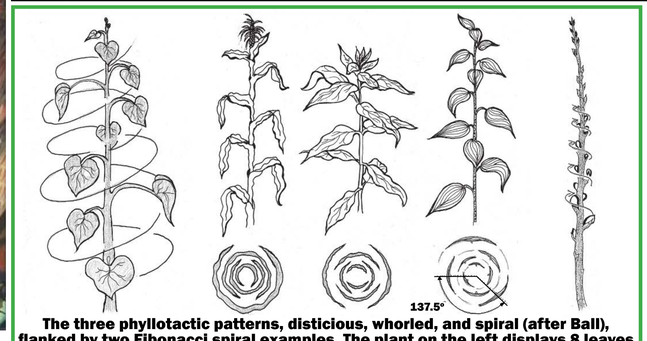
Six planets orbit this star with resonant Fibonacci and musical fourth frequencies of 8, 5, 3, 2, 4/3, 1

Hurricane Katrina



SUBATOMIC PARTICLE MASS AS A FUNCTION OF Φ AND 1/Φ.

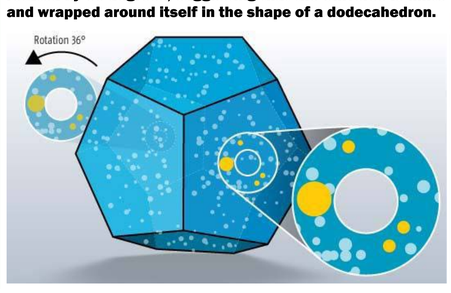
subatomic particle	theoretical mass (MeV)	experimental value (MeV)
e (electron)	$\sqrt{\overline{\alpha}_{gs}}/10 = \sqrt{(10\,\Phi^2)}/10 = 0.51166\ldots$	0.511
n (proton)	$\overline{\alpha}_0{}^2/20 = (20\,\Phi^4)^2/20 = 939.574\ldots$	939.563
P (proton)	$(\overline{\alpha}_0 - \kappa_0)^2/20 = 137^2/20 = 938.45\ldots$	938.27231
$\Pi^{\pm}$ (Π meson)	$\overline{\alpha}_0 + (5/2) = 139.5820\ldots$	139.57
Π^0	$\overline{\alpha}_0 - (5/2) = 134.5820\ldots$	134.98
Ω^-	$10[\overline{\alpha}_0 + (49/\Phi)] = 1{,}673.657\ldots$	1,672.43
Exi$^-$	$10[\overline{\alpha}_0 - (8/\Phi)] = 1{,}321.377\ldots$	1,321.32
Exi^0	$10[\overline{\alpha}_0 - (9/\Phi)] = 1{,}315.197\ldots$	1,314.9
μ (muon)	$\sqrt{(1000\,\Phi^5)} = 105.309$ or $(20+\kappa)(5+\Phi^{-3}) = 105.665\ldots$	105.65839
η	$(4\,\overline{\alpha}_{gs})^2/20 = (40\,\Phi^2)^2/20 = 548.328\ldots = m_\eta$	548.8
η'	$(7/4)\,m_\eta = (7/80)(4\,\overline{\alpha}_{gs})^2 = 959.5742755\ldots$	957.5

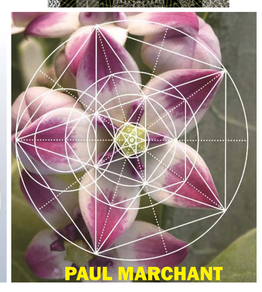


The three phyllotactic patterns, disticious, whorled, and spiral (after Ball), flanked by two Fibonacci spiral examples. The plant on the left displays 8 leaves in 5 turns, the pussy willow on the right produces 13 buds in exactly 5 turns.

WRAP-AROUND UNIVERSE

Rings "cut" from the cosmic microwave background on opposite sides of the sky seem to match when one ring is rotated by 36 degrees, suggesting that the Universe is finite and wrapped around itself in the shape of a dodecahedron.





PAUL MARCHANT