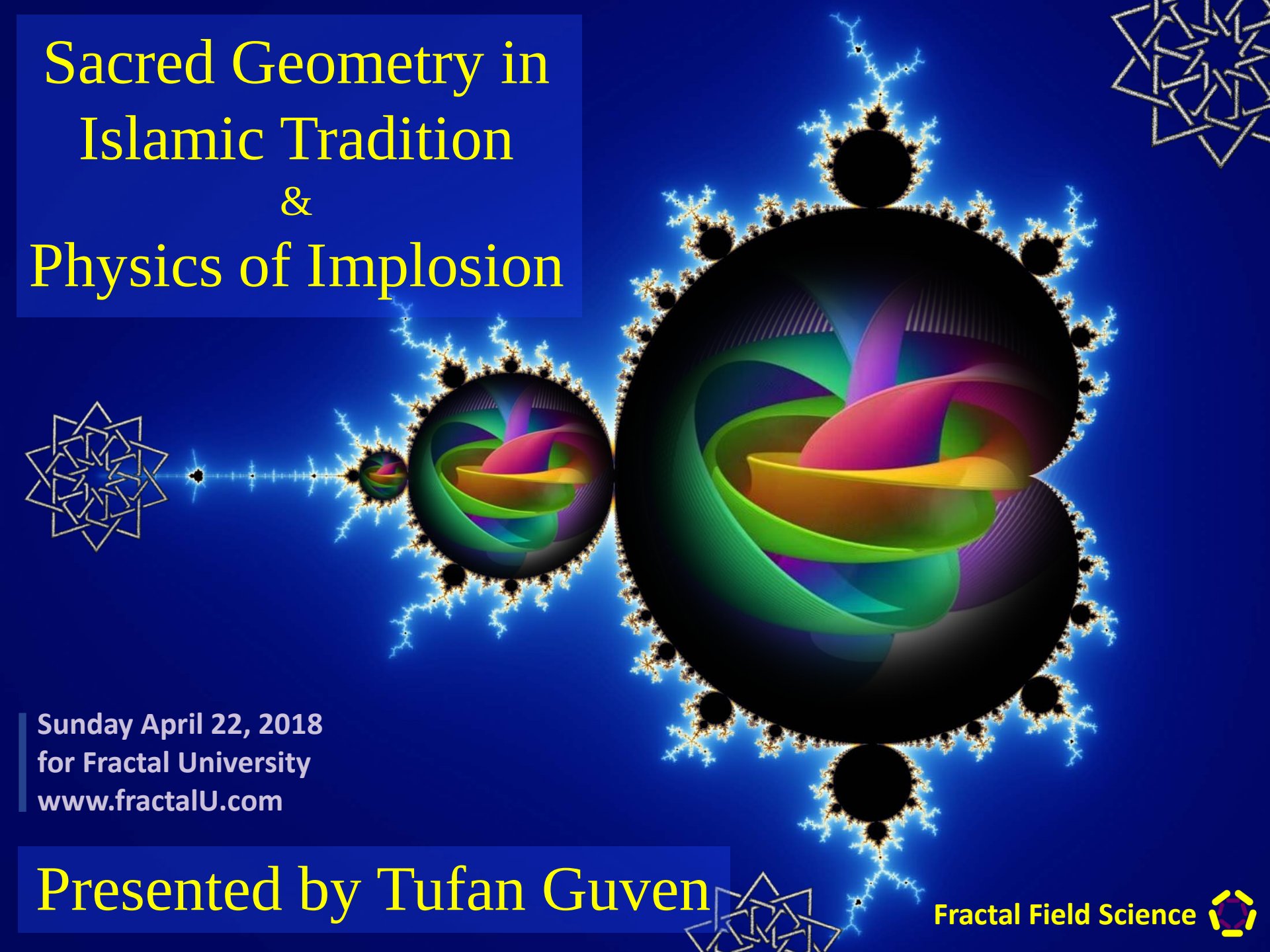
Sacred Geometry in Islamic Tradition & Physics of Implosion

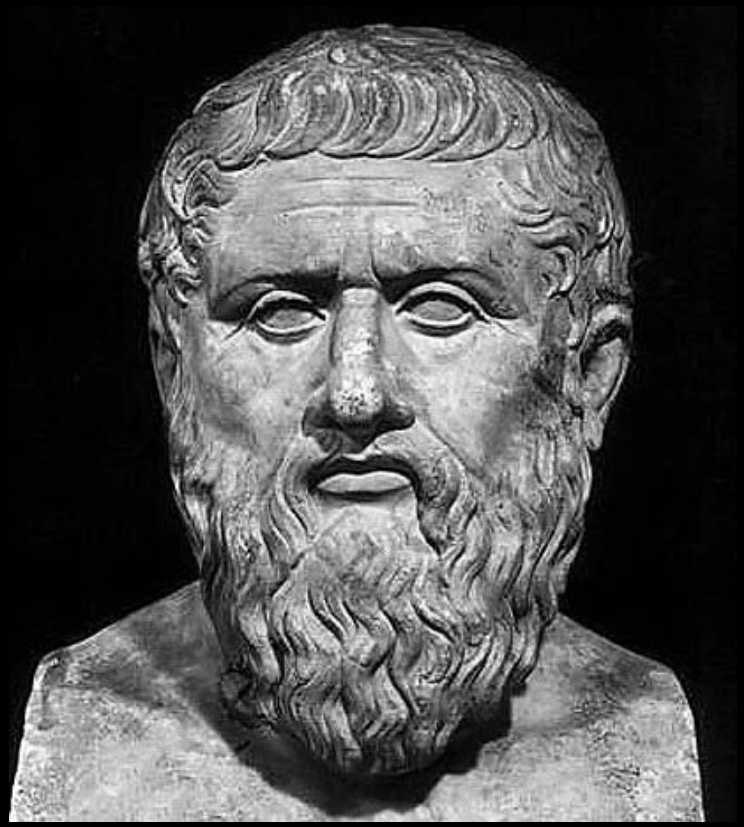


Sunday April 22, 2018
for Fractal University
www.fractalU.com

Presented by Tufan Guven

Fractal Field Science

Plato

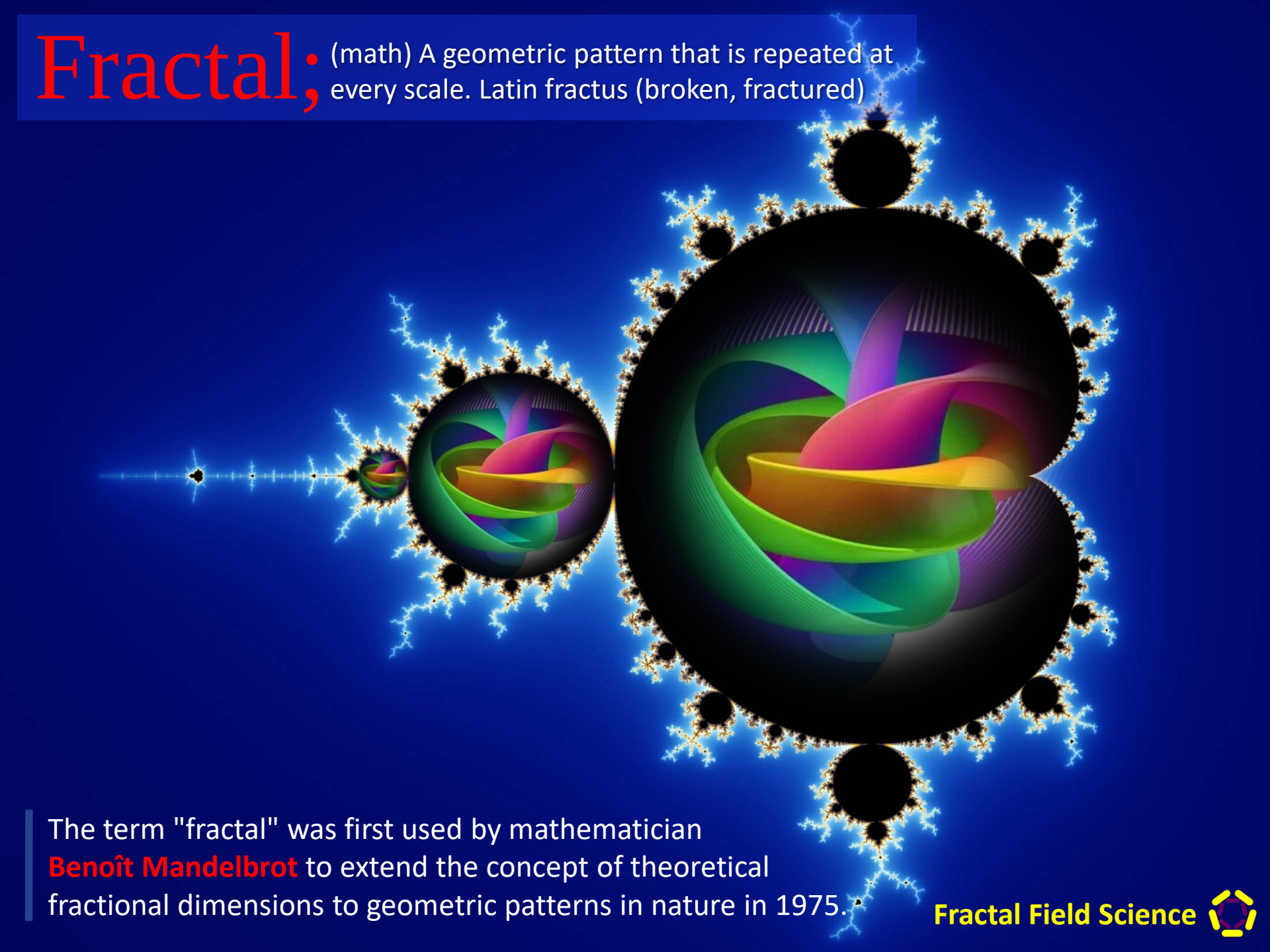


"Geometry, will draw the soul towards truth and create the spirit of philosophy"

Fractal Field Science

Fractal;

(math) A geometric pattern that is repeated at every scale. Latin fractus (broken, fractured)



The term "fractal" was first used by mathematician **Benoît Mandelbrot** to extend the concept of theoretical fractional dimensions to geometric patterns in nature in 1975.

Fractal;

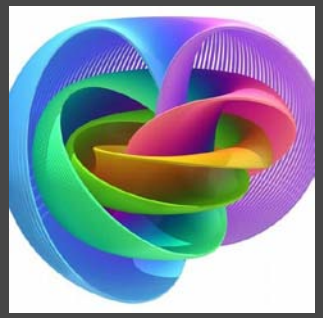
is a geometrical/mathematical set that exhibits a repeating pattern displayed at every scale.

Self Similarity

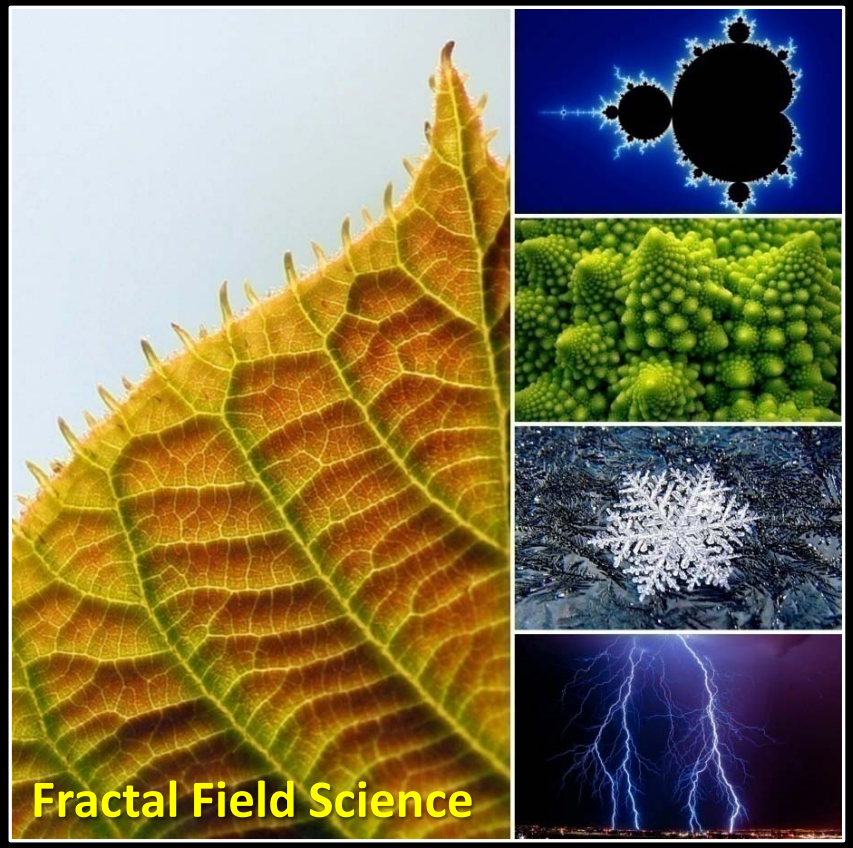
If the replication is similar at every scale, it is called a self-similar pattern. The peaces or components that make up a self similar object, are similar to the whole.

Repetition

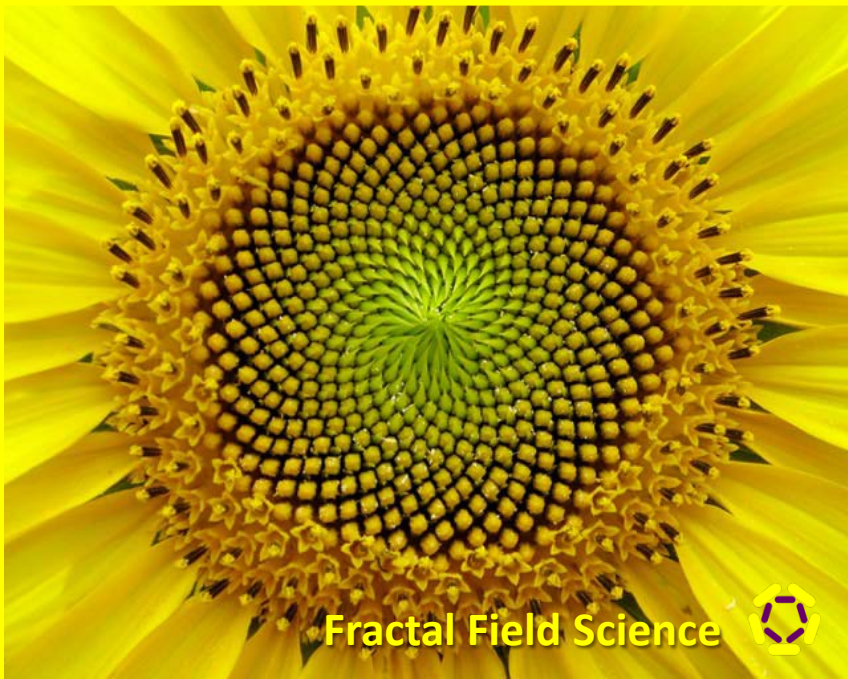
Unorganized details and patterns repeat themselves in smaller scales. When any peace of any peace is magnified, it resembles the whole. This characteristic can be observed in a snow flake or bark of a tree easily.



Scale Invariant
Self Embedding

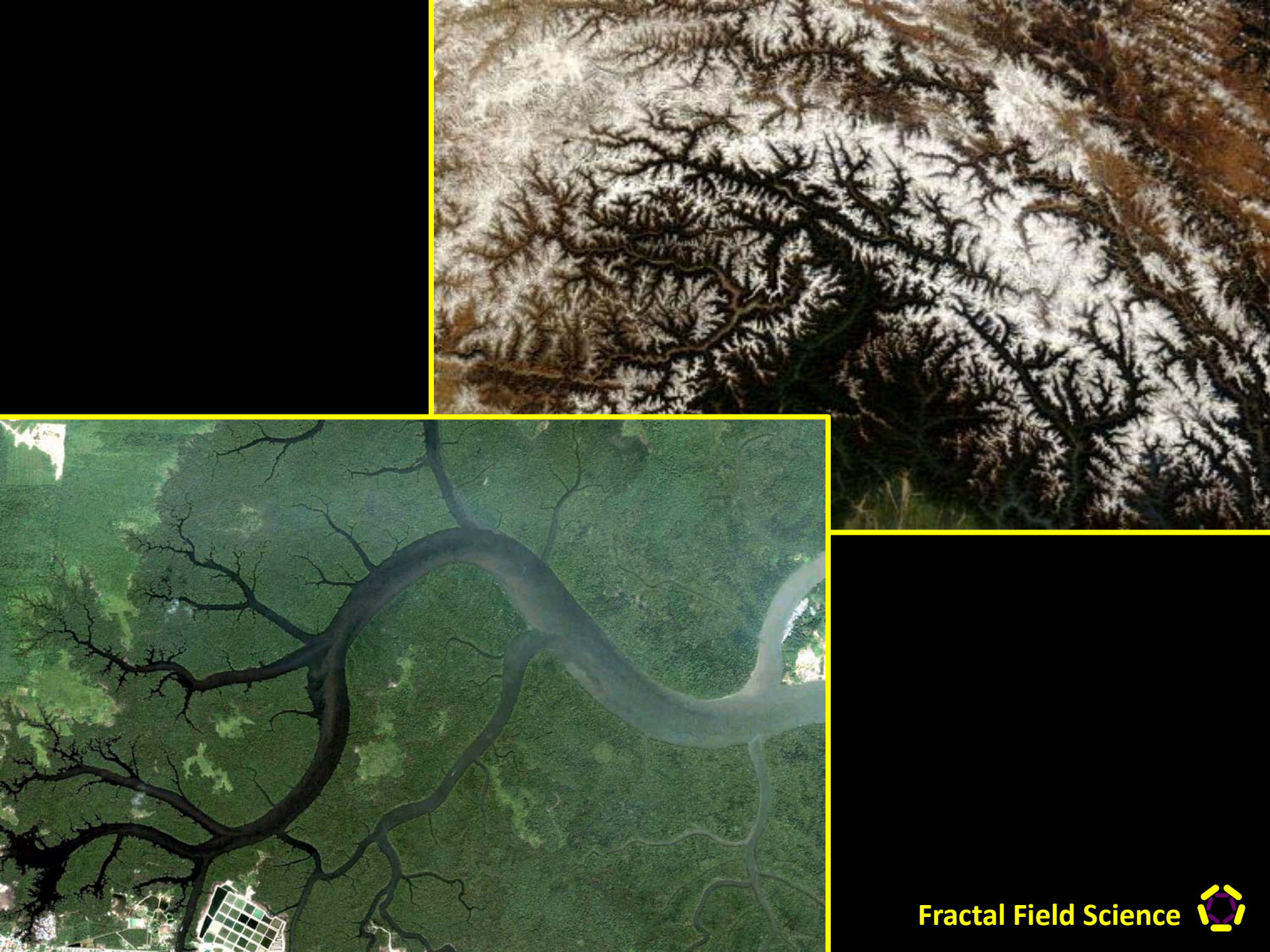


Fractal Field Science



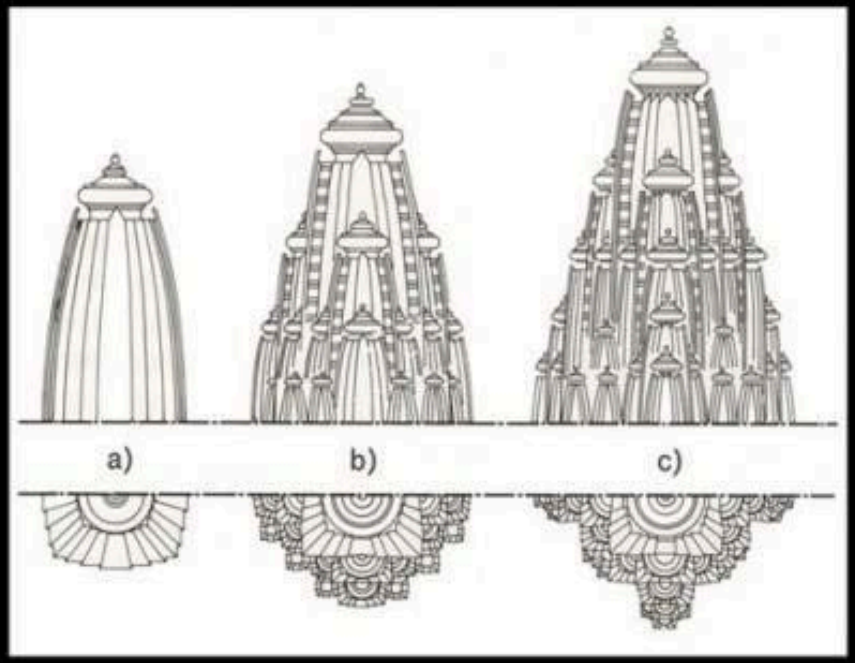
Fractal Field Science

Fractal Field Science

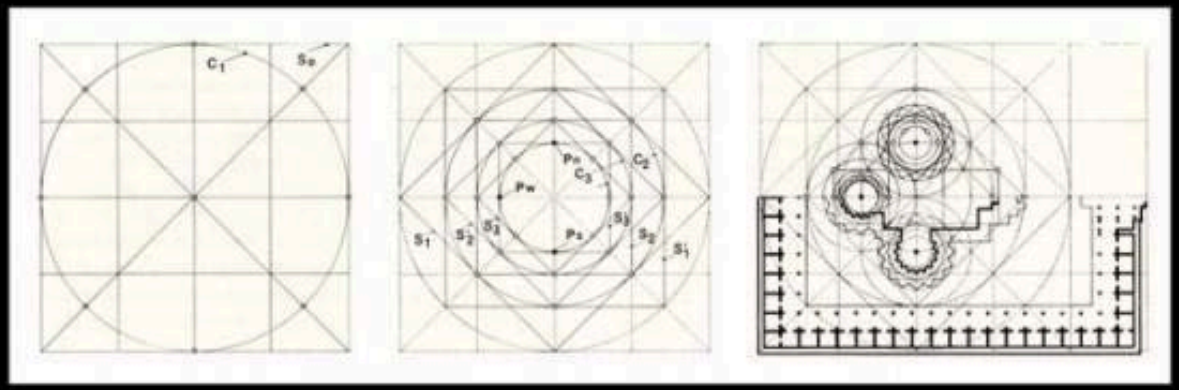


Fractal Field Science

Fractality in Architecture



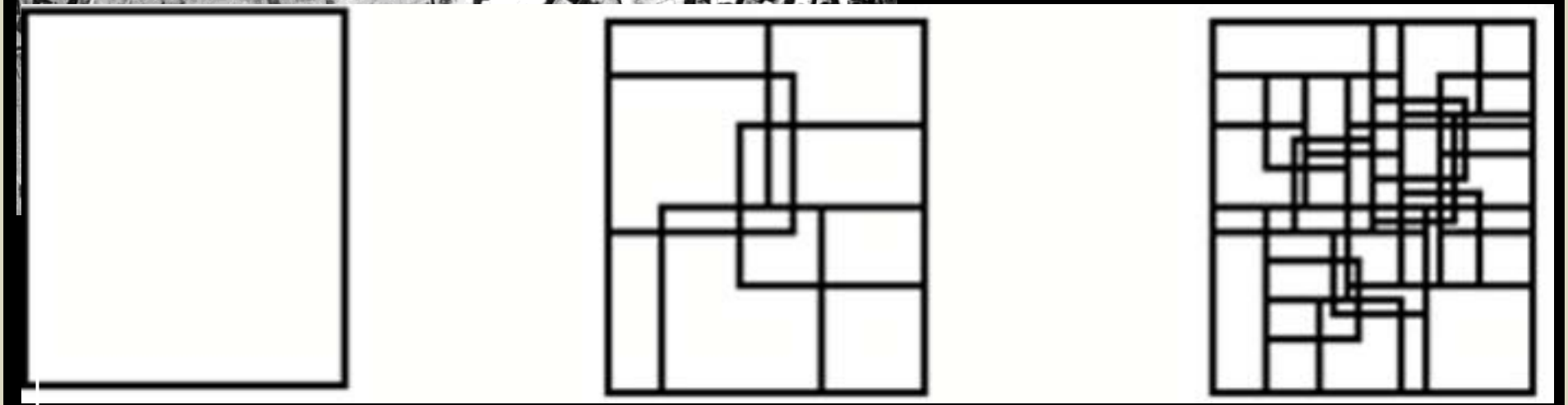
Indian Temples -Self-similarity & 3D Fractal - Khajuraho Temple



Fractal Field Science

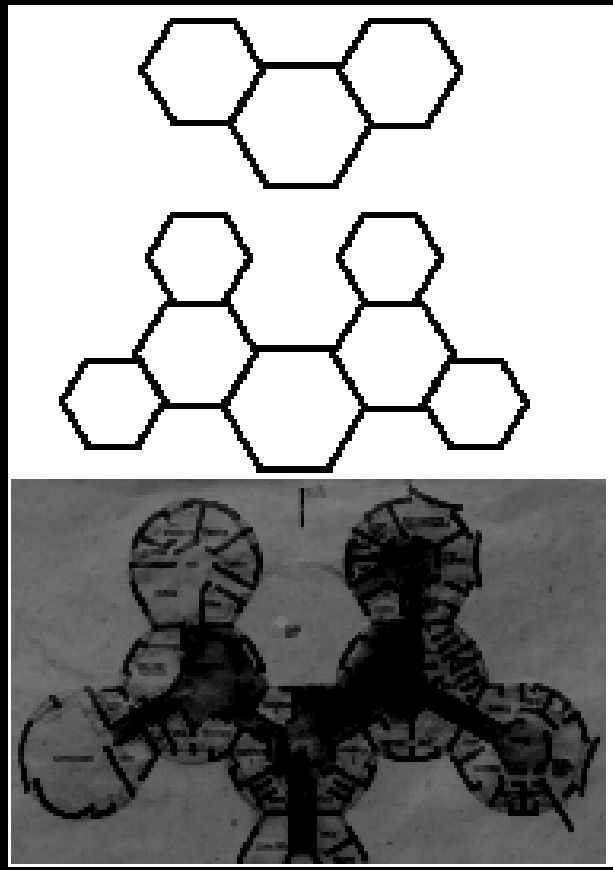
Fractality in Architecture

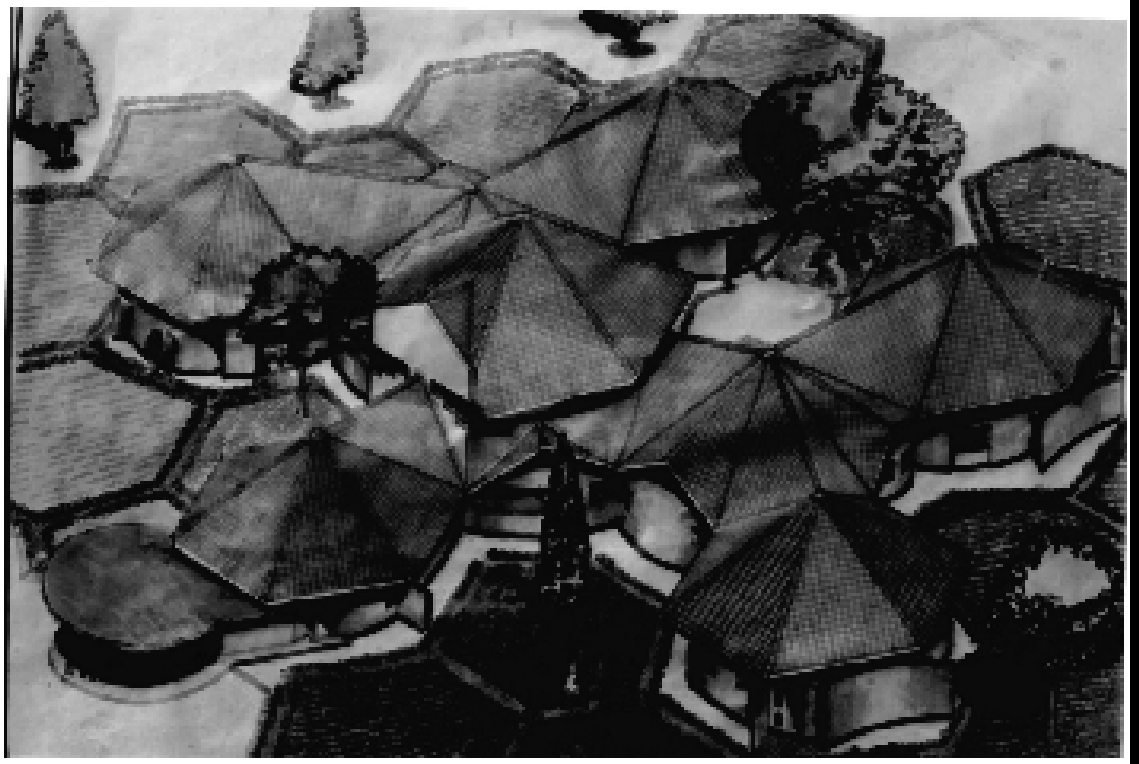
Cameroon, Africa
Mokoulek Settlement



Fractal Field Science

Fractality in Architecture

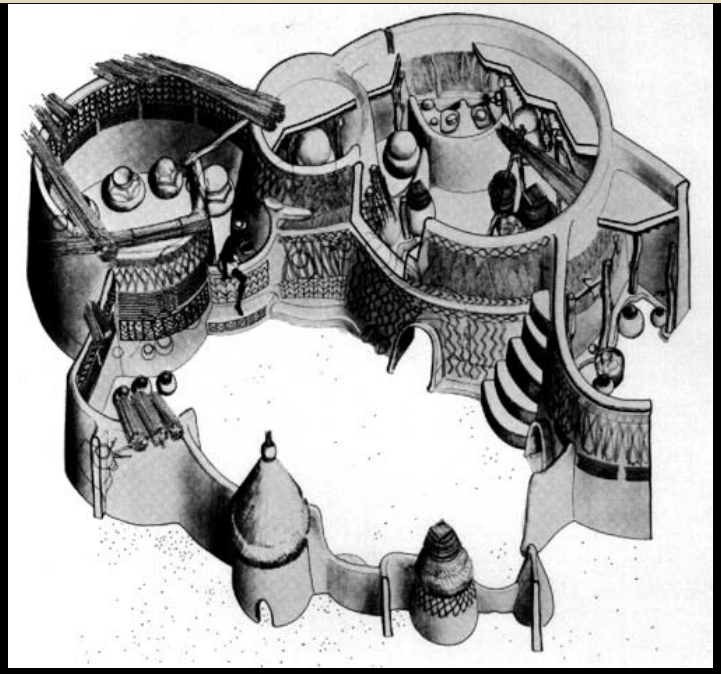


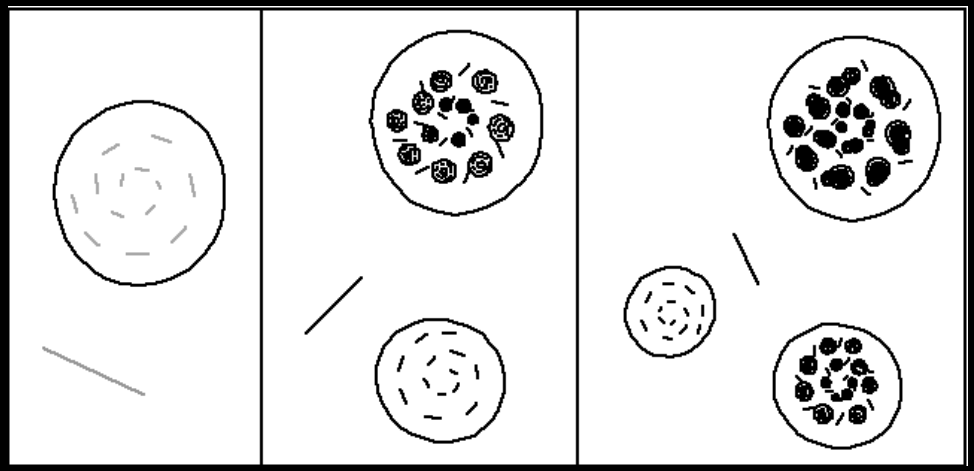


Kitwe community clinic in Zambia -- design by David Hughes and Alex Nyangula using the fractal structure of traditional African architecture.

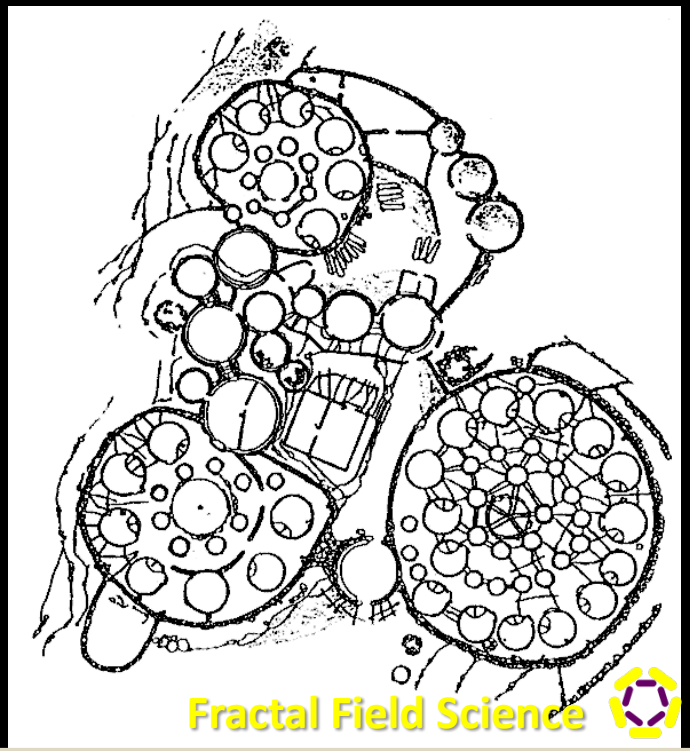
Kitwe community, Zambia, Africa

Fractality in Architecture

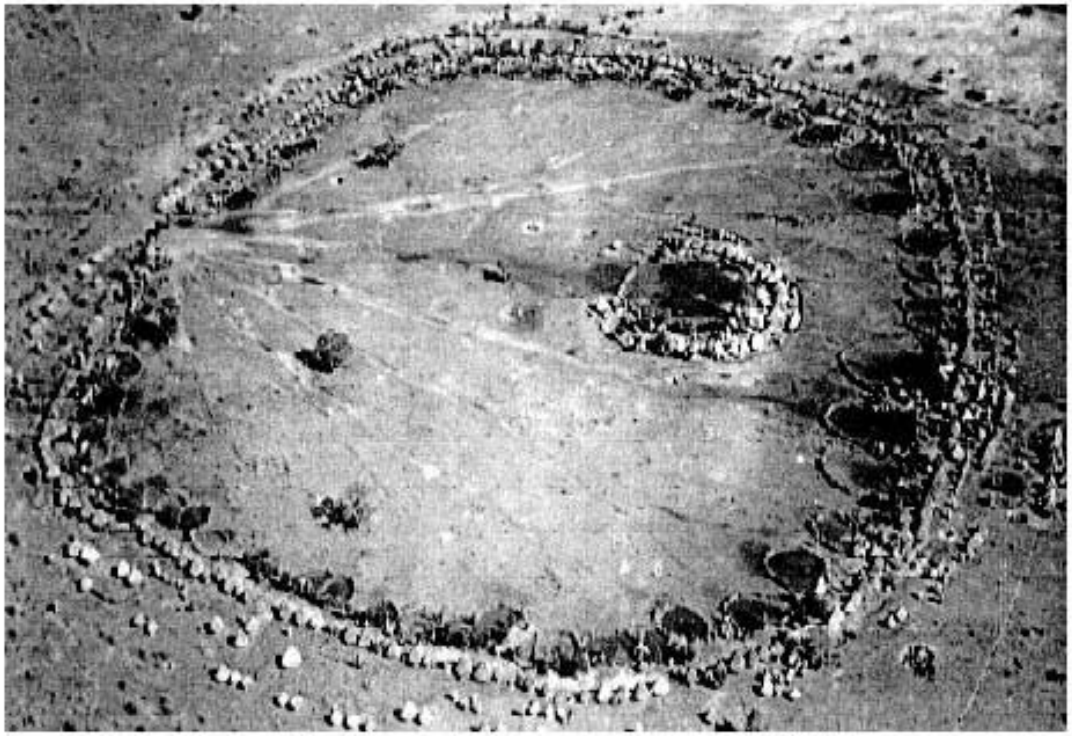




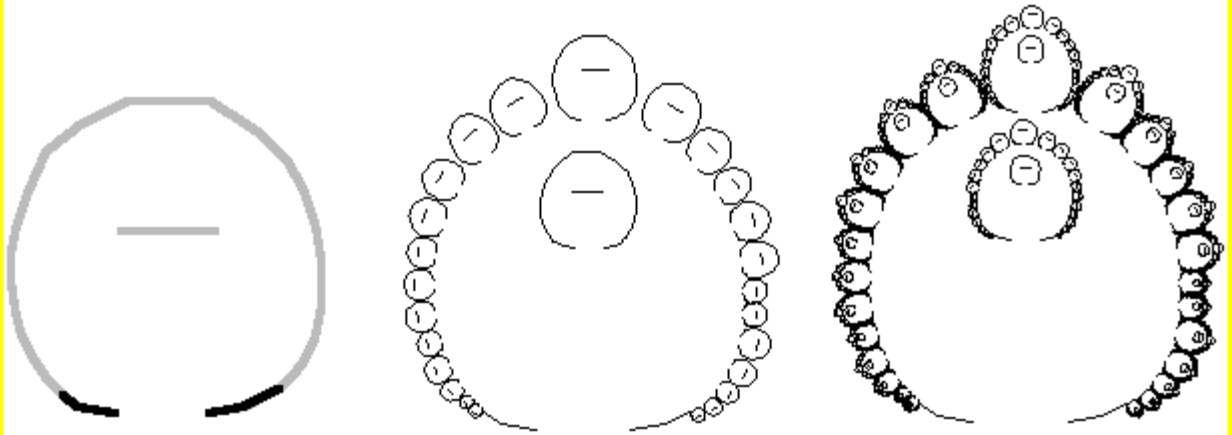
Logone-Birni, Cameroon – Africa.



Fractality in Architecture

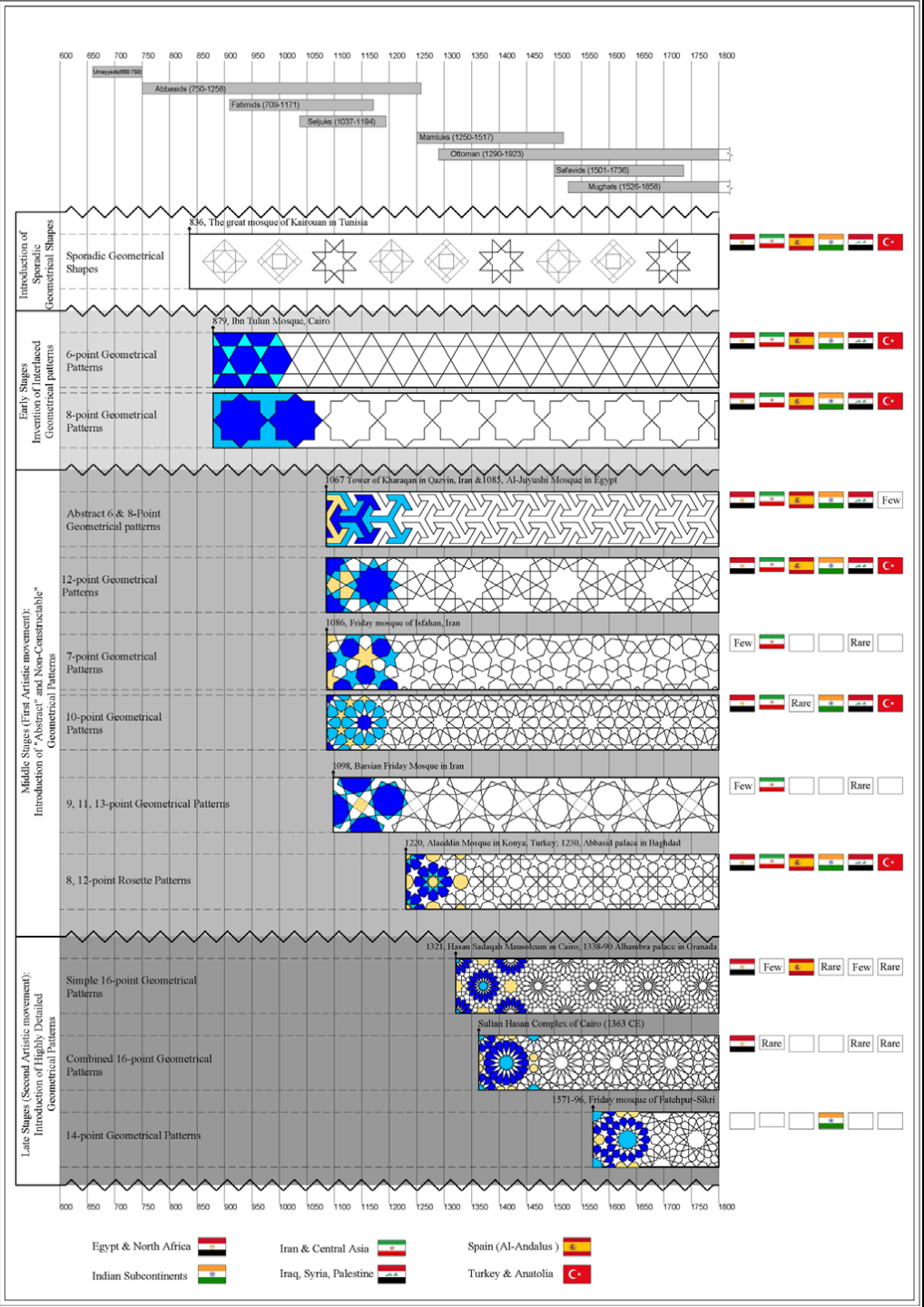


Aerial photo of Ba-ila settlement, before 1944.



Fractal Field Science

Evolution of Islamic Geometric Patterns



6-point Geometrical pattern	8-point Geometrical pattern	10-point Geometrical pattern
Hexagon	Octagon	Decagon
6-point Star	8-point Star	10-point Star
—	8-fold Rosette	10-fold Rosette

Source: Yahya Abdullahi, Mohamed Bin Embi
University of Technology, Malaysia

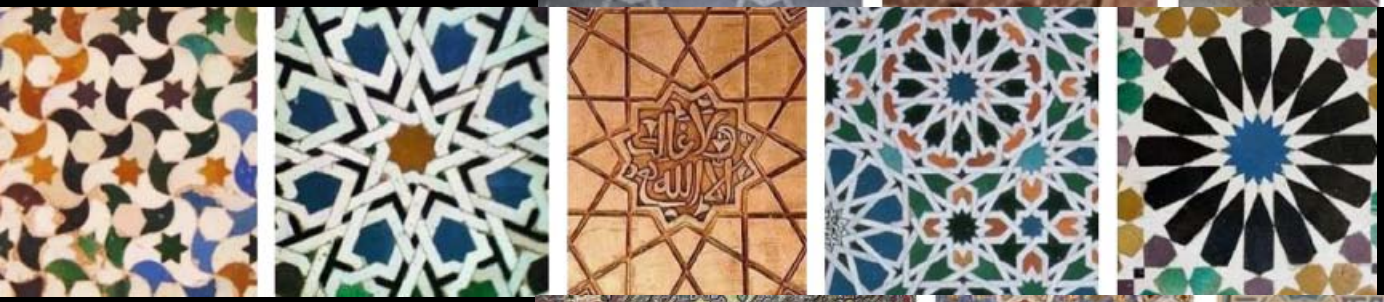
Fractal Field Science

Fractality in Architecture

Great Mosque of Kairouan, Tunisia
Year: 670, Abbasid Caliphate

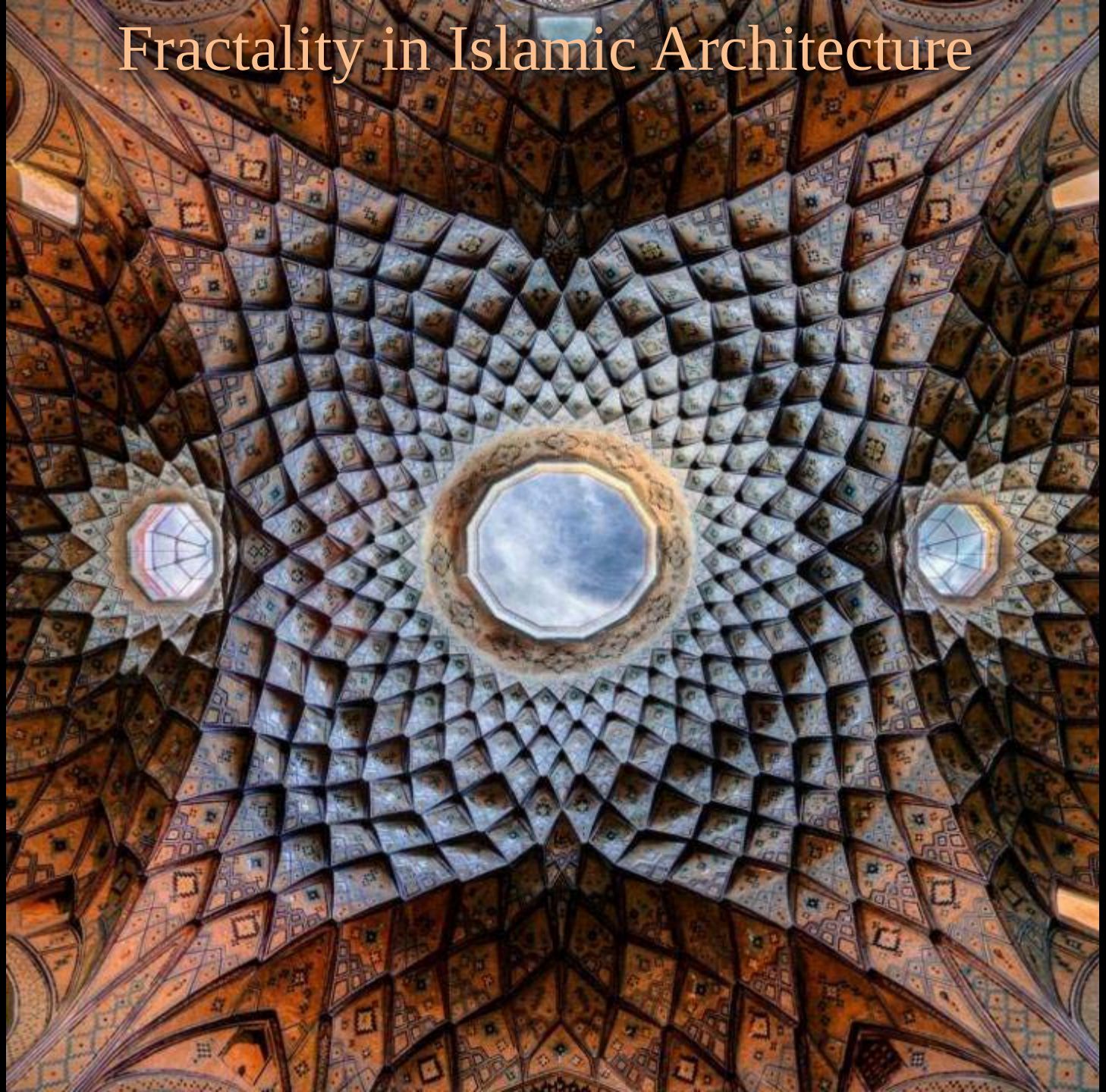
Symmetry Operations in Islamic Symbolism

Fractality in Islamic Symbolism



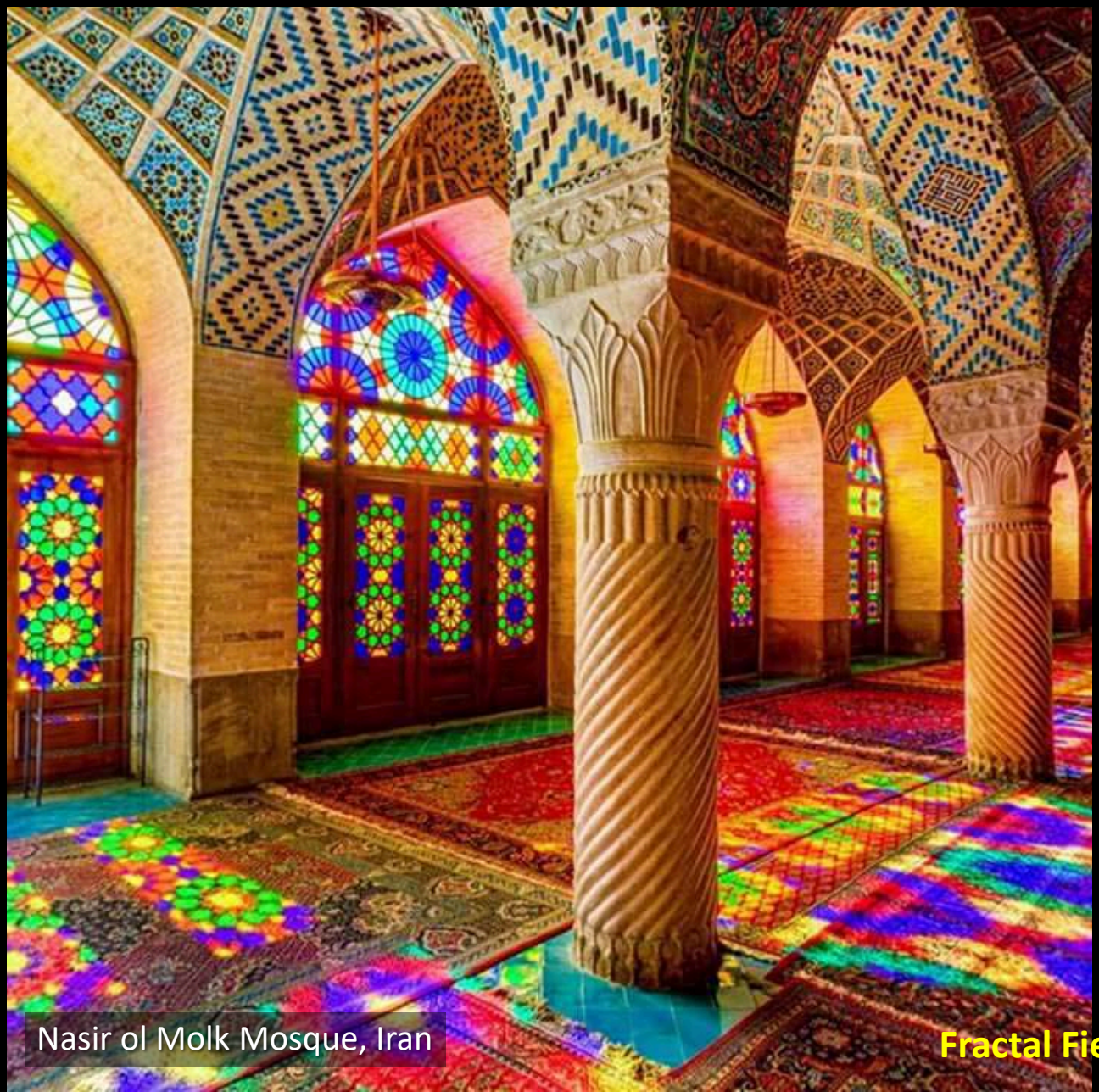
Fractal Field Science

Fractality in Islamic Architecture



Fractal Field Science

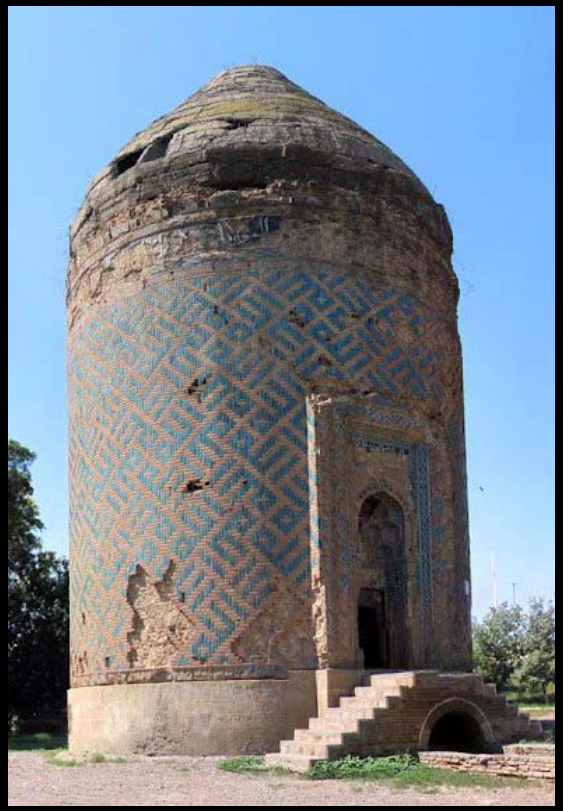
Fractality in Islamic Symbolism

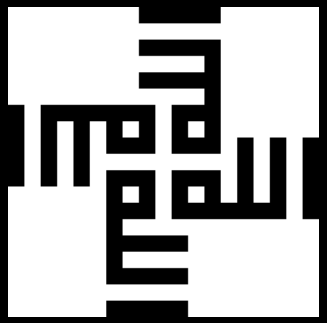


Nasir ol Molk Mosque, Iran

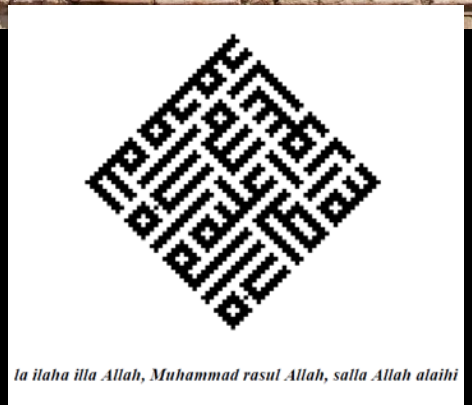
Fractality in Islamic Architecture

Barda Mausoleum, 1322

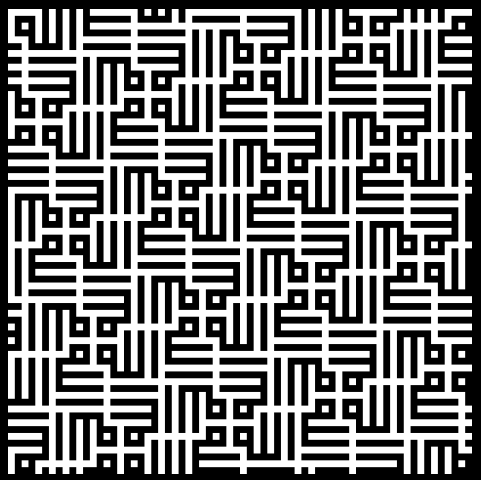




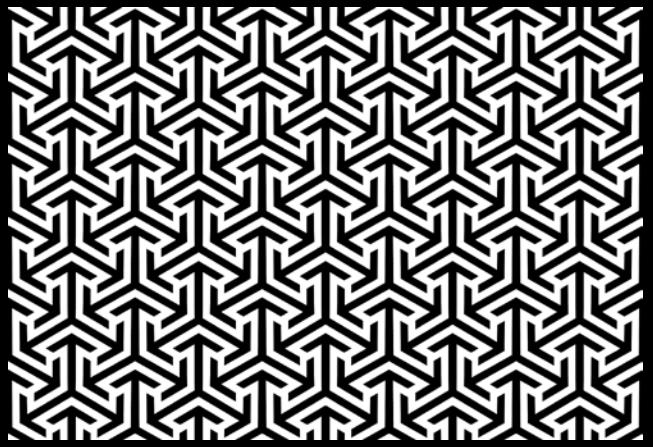
Garabaghlar Mausoleum



Mausoleum of
Tuğrul Temur, 1363

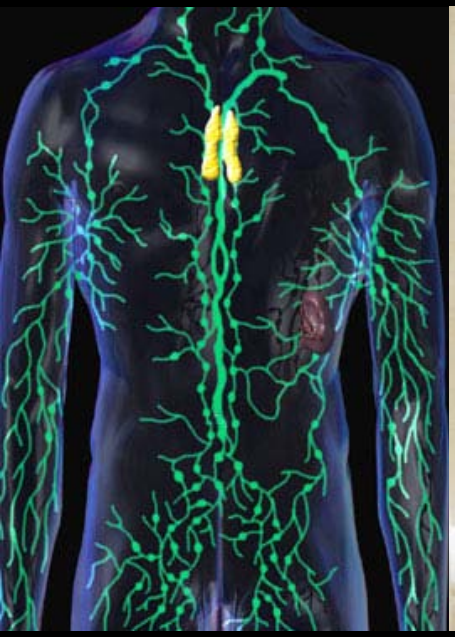


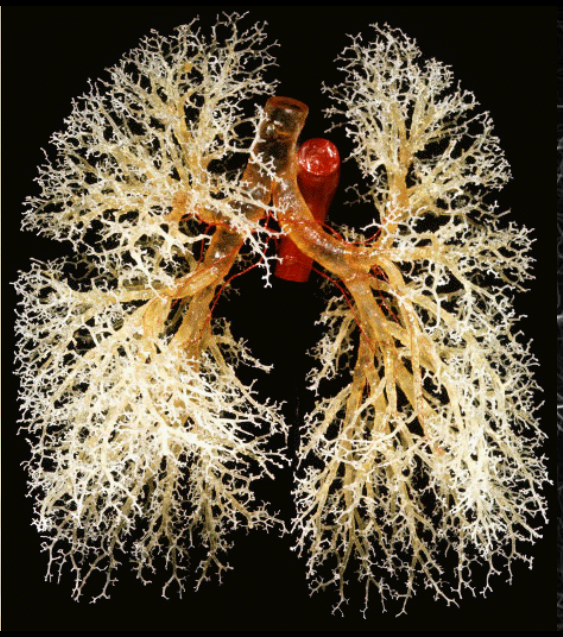
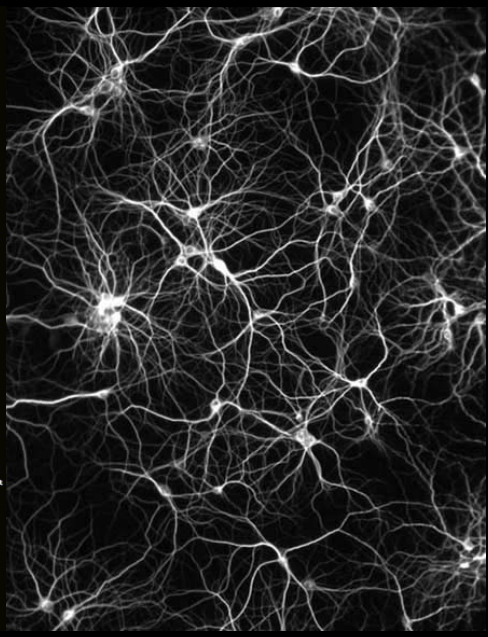
Karahan Mausoleum, 1093



Fractal Field Science

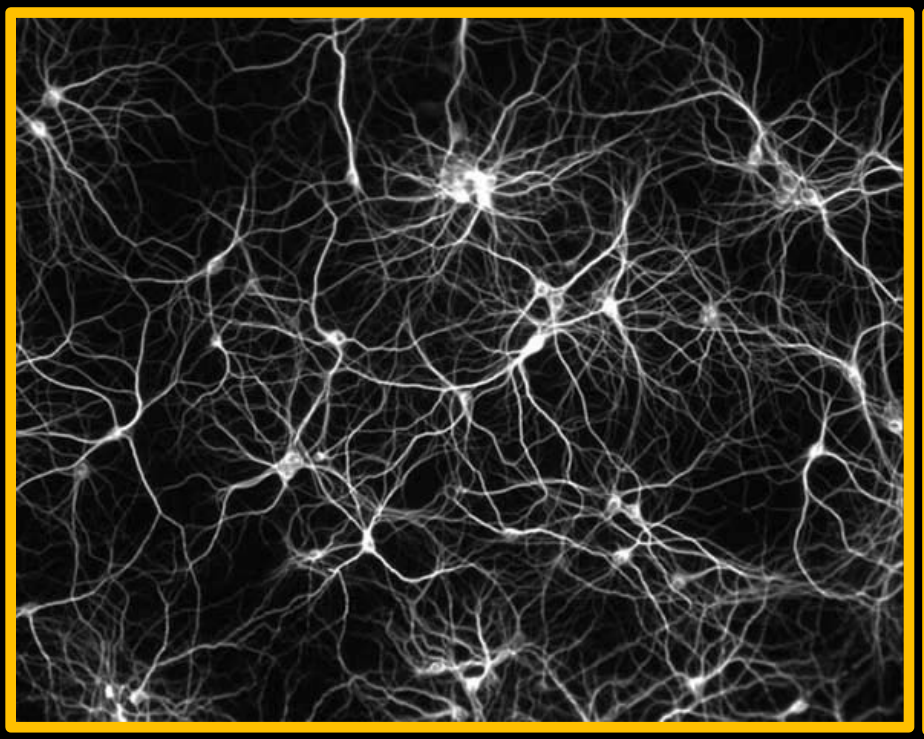
Branching Patterns in Human Body



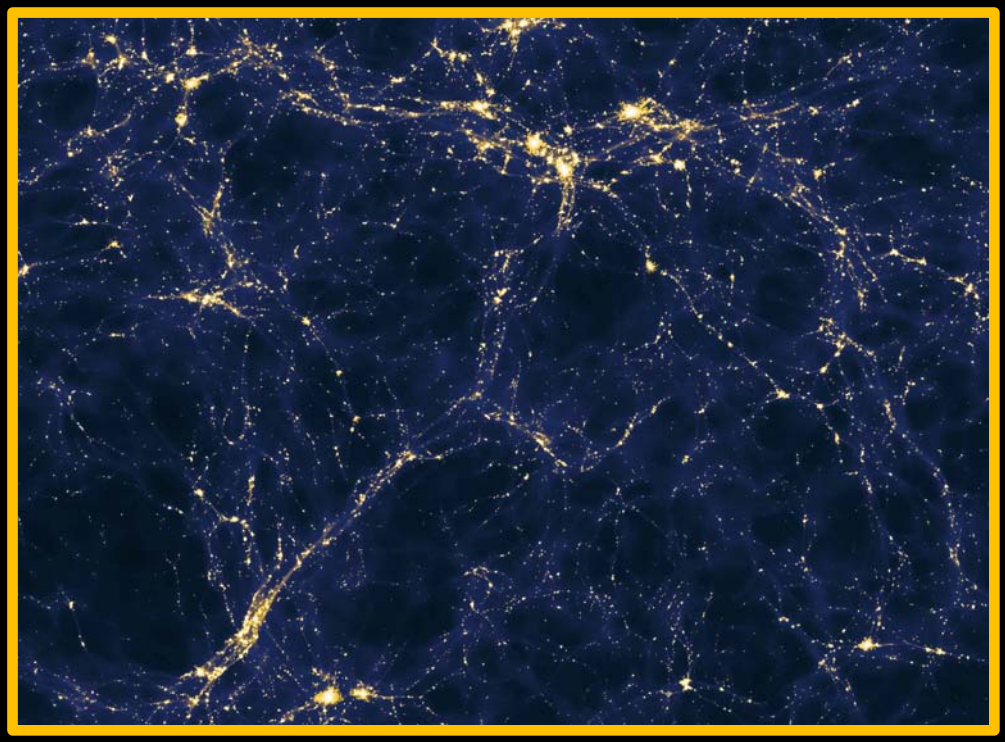



Fractal Projection

Neurons

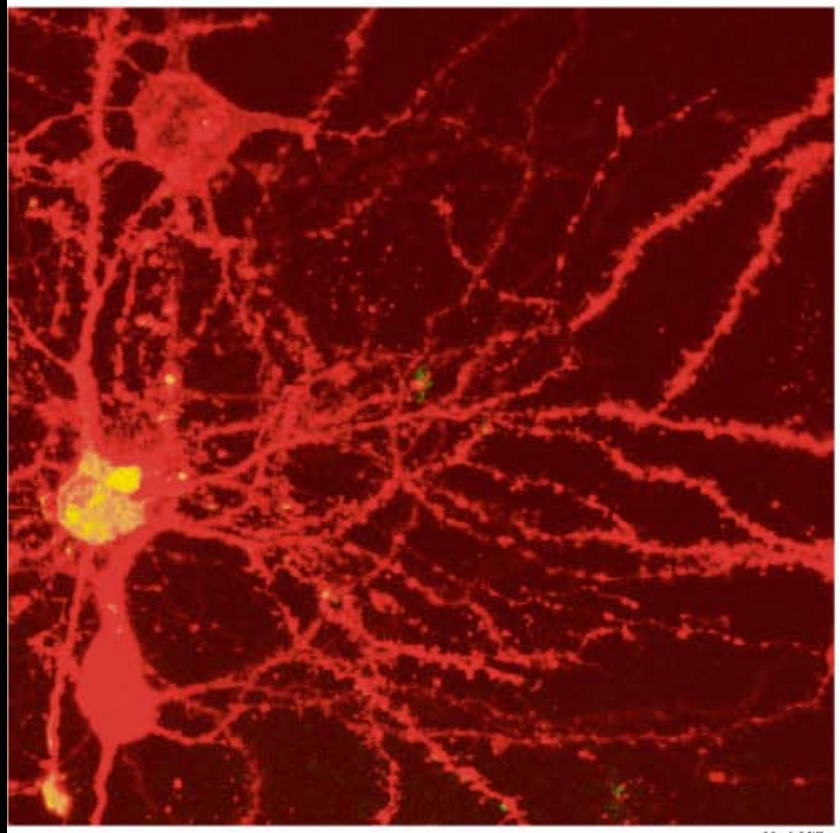


Super clusters



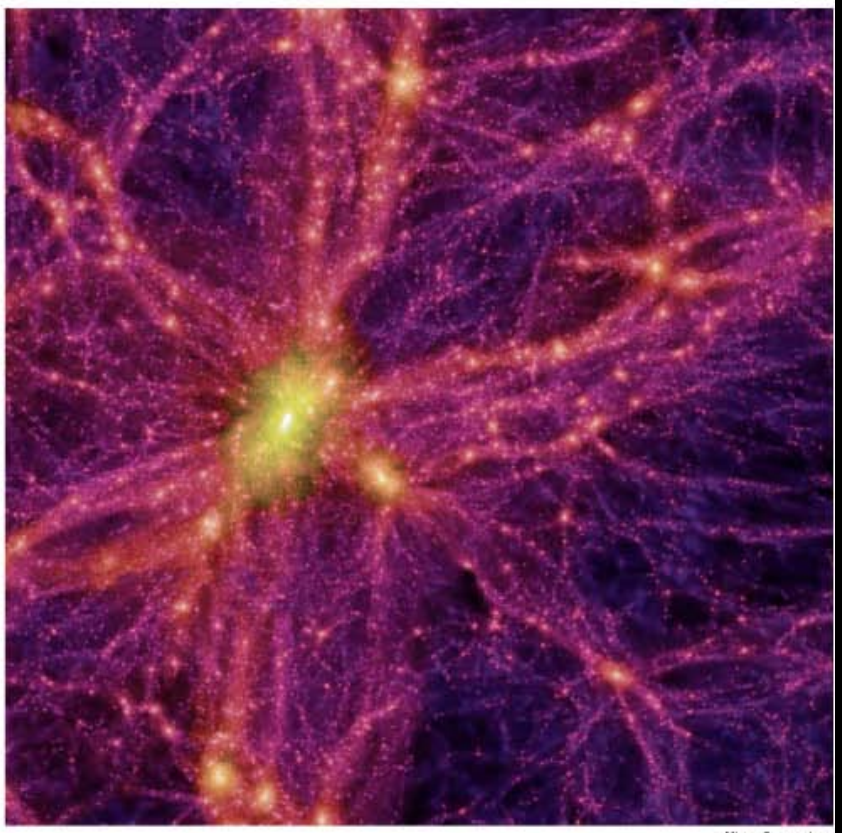
Neurons and the Universe

One is only micrometers wide. The other is billions of light-years across. One shows neurons in a mouse brain. The other is a simulated image of the universe. Together they suggest the surprisingly similar patterns found in vastly different natural phenomena. *DAVID CONSTANTINE*



Mark Miller

Mark Miller, a doctoral student at Brandeis University, is researching how particular types of neurons in the brain are connected to one another. By staining thin slices of a mouse's brain, he can identify the connections visually. The image above shows three neuron cells on the left (two red and one yellow) and their connections.



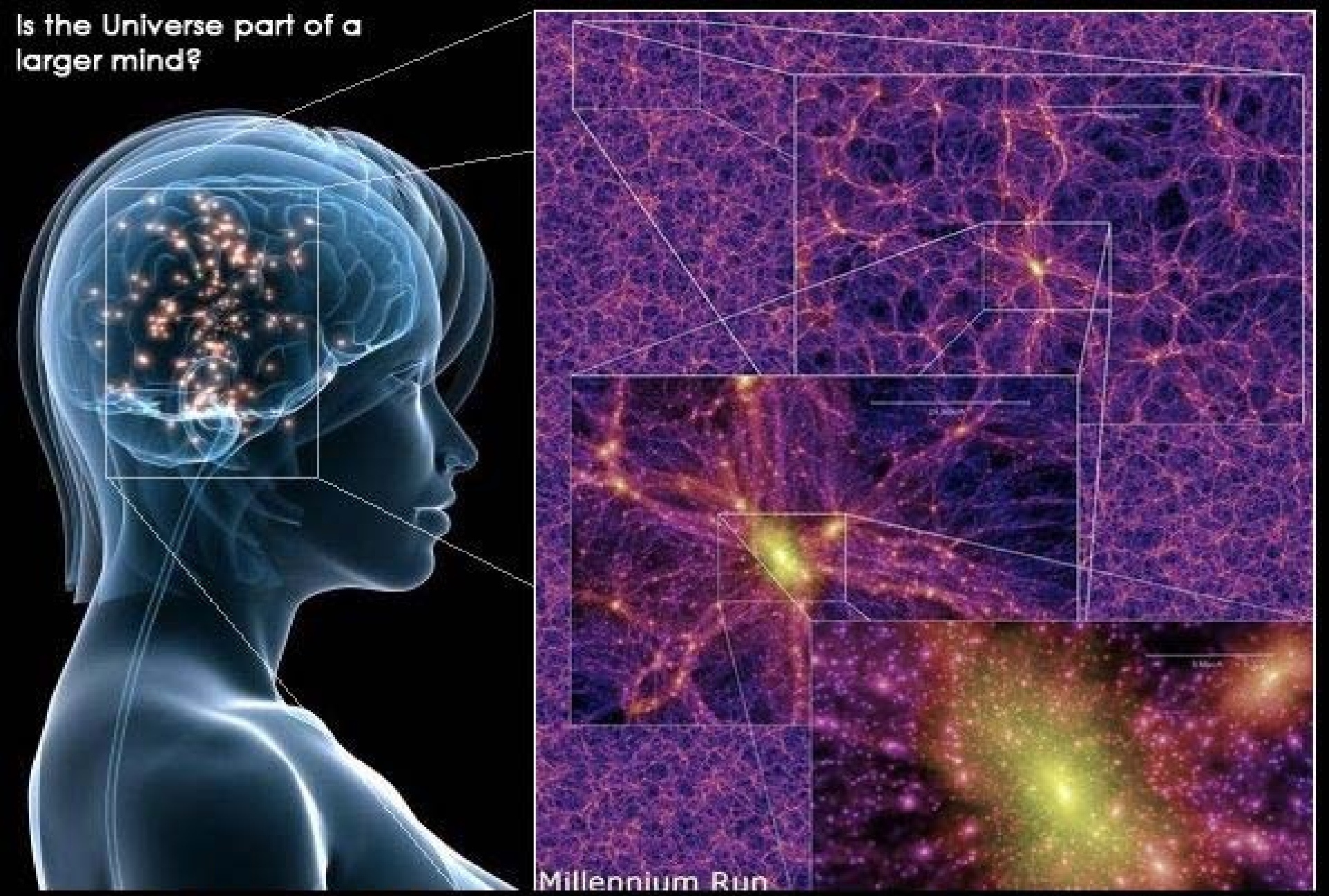
Virgo Consortium

An international group of astrophysicists used a computer simulation last year to recreate how the universe grew and evolved. The simulation image above is a snapshot of the present universe that features a large cluster of galaxies (bright yellow) surrounded by thousands of stars, galaxies and dark matter (web).

Source: Mark Miller, Brandeis University; Virgo Consortium for Cosmological Supercomputer Simulations; www.visualcomplexity.com

The New York Times

Mark Miller, Brandels University



BRAIN NEURON PATTERN FRACTAL OF UNIVERSE

Fractal Field Science

In Sufism;

There is a concept of the "Unity of Being" which encourages people to look for God inside oneself and perceive the whole universe including oneself as the reflection of God.

According to this philosophy, the universe on the macro level is a holographic model whose source is the energy, just like the neurons in the brain.

On a cosmic scale, from the fractal and holographic universe perspective, this means that each part of the world contains the whole of the universe as it's hidden inside each part.

The purpose of the mind is to see the divine essence and to reach his unity -Rumi
Knowledge means to know yourself -Yunus Emre

In Sufism the divine secret is: the realization of the unity of the God - Human - the Universe. The creator and the creation and everything is actually one. It has no beginning and no end. The whole universe and the human being is God's represantation in different forms. The universe and the human being is a perception that reflects God's similarity.

Hermetism – The Emerald Tablet

"That which is Below corresponds to that which is Above, and that which is Above corresponds to that which is Below, to accomplish the miracles of the One Thing."

Fractal Field Science

Fractal Consciousness

NeuroQuantology
An Interdisciplinary Journal of Neuroscience and Quantum Physics
ISSN 1303 5150

DOI: 10.14704/nq.2017.15.3.1079

Consciousness in the Universe is Scale Invariant and Implies an Event Horizon of the Human Brain

Dirk K.F. Meijer, Hans J H Geesink

Abstract

Our brain is not a "stand alone" information processing organ: it acts as a central part of our integral nervous system with recurrent information exchange with the entire organism and the cosmos. In this study, the brain is conceived to be embedded in a holographic structured field that interacts with resonant sensitive structures in the various cell types in our body. In order to explain earlier reported ultra-rapid brain responses and effective operation of the meta-stable neural system, a field-receptive mental workspace is proposed to be communicating with the brain. Our integral nervous system is seen as a dedicated neural transmission and multi-cavity network that, in a non-dual manner, interacts with the proposed supervening meta-cognitive domain. Among others, it is integrating discrete patterns of eigen-frequencies of photonic/solitonic waves, thereby continuously updating a time-symmetric global memory space of the individual. Its toroidal organization allows the coupling of gravitational, dark energy, zero-point energy field (ZPE) as well as earth magnetic fields energies and transmits wave information into brain tissue, that thereby is instrumental in high speed conscious and sub-conscious information processing. We propose that the supposed field-receptive workspace, in a mutual interaction with the whole nervous system, generates self-consciousness and is conceived as operating from a 4th spatial dimension (hyper-sphere). Its functional structure is adequately defined by the geometry of the torus, that is envisioned as a basic unit (operator) of space-time. The latter is instrumental in collecting the pattern of discrete soliton frequencies that provided an algorithm for coherent life processes, as earlier identified by

ABOUT THE AUTHORS

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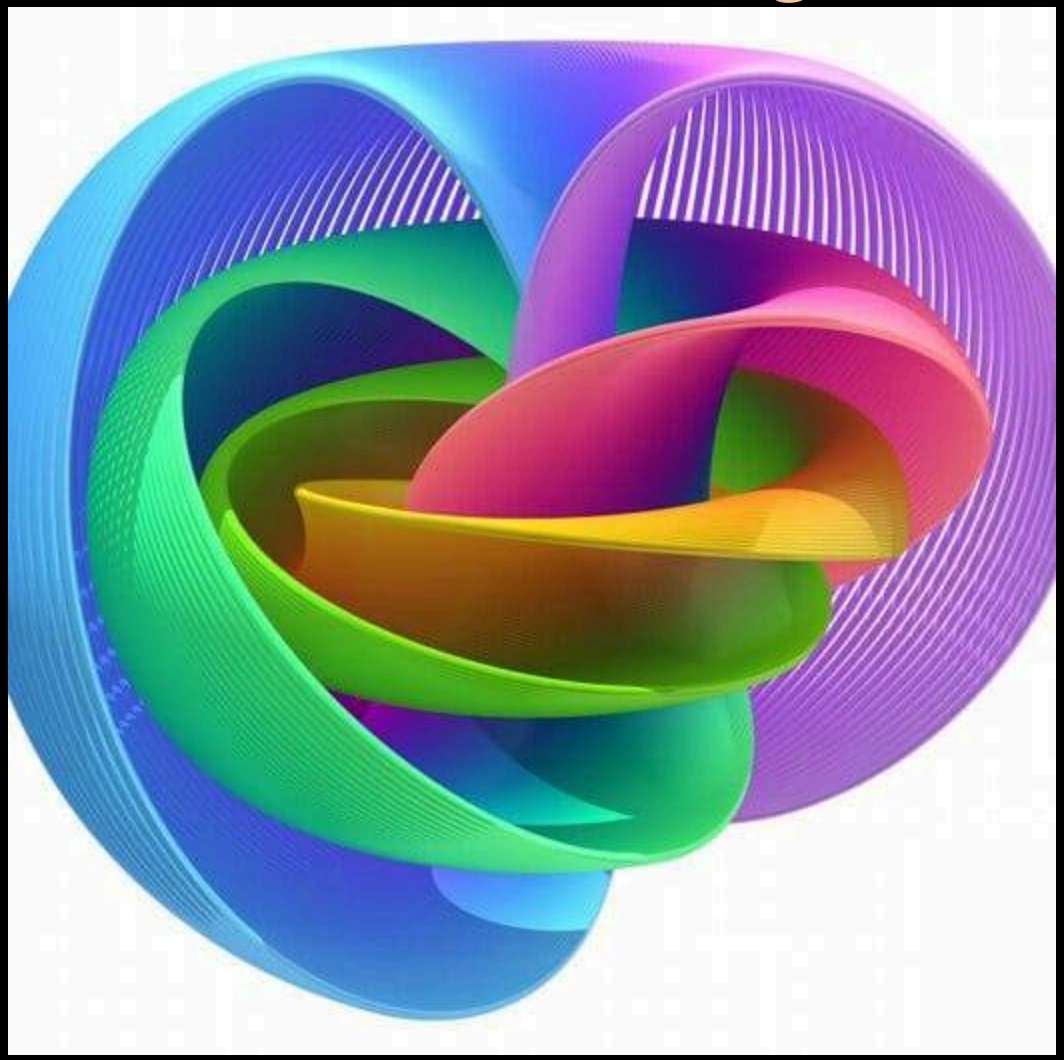
em. professor PhD

Hans J H Geesink
Ir, Previous Project leader Mineral Nanotechnology, DSM, The Netherlands
Netherlands

em. Ir. Project Director DSM

Perfect Inclusiveness

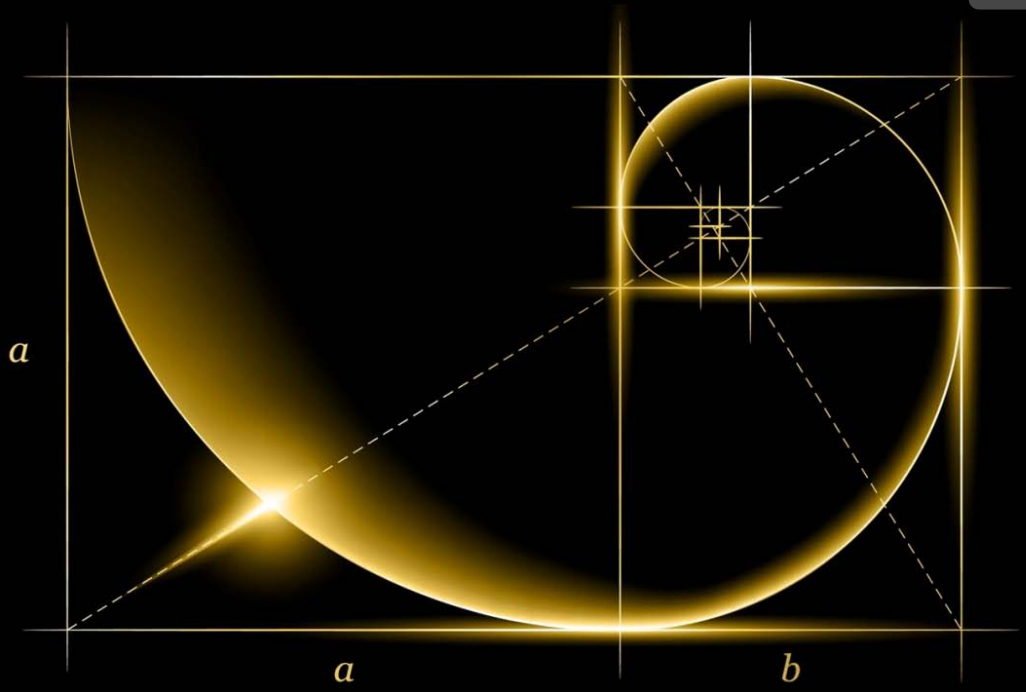
Self Embedding



Golden Ratio

Is the fundamental ratio in fractal fields which
is the Electric Origin
-Cause and Mechanism of:
All Centripedal and Self Organizing Forces
Including and Especially:
Gravity, Life Force, Perception, Bliss / Enlightenment (end of Addiction A.D.D.),
Alphabet & Symbol, Color

www.goldenmean.info

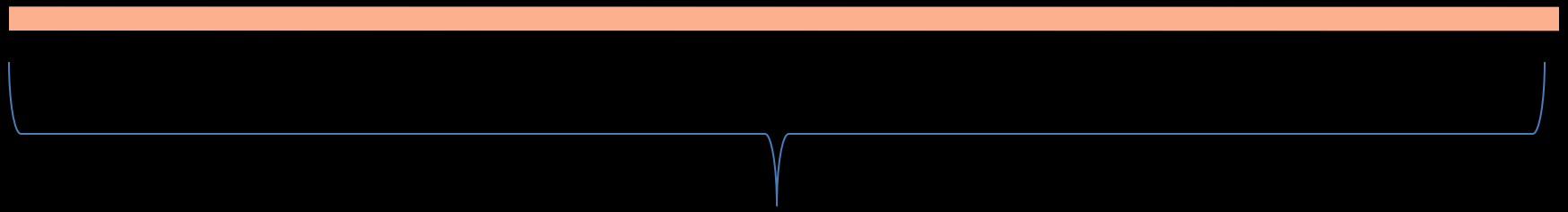


$$\frac{a+b}{a} = \frac{a}{b} \approx 1{,}618$$

$$\phi = \frac{\sqrt{5}-1}{2}$$

Fractal Field Science

Golden Ratio

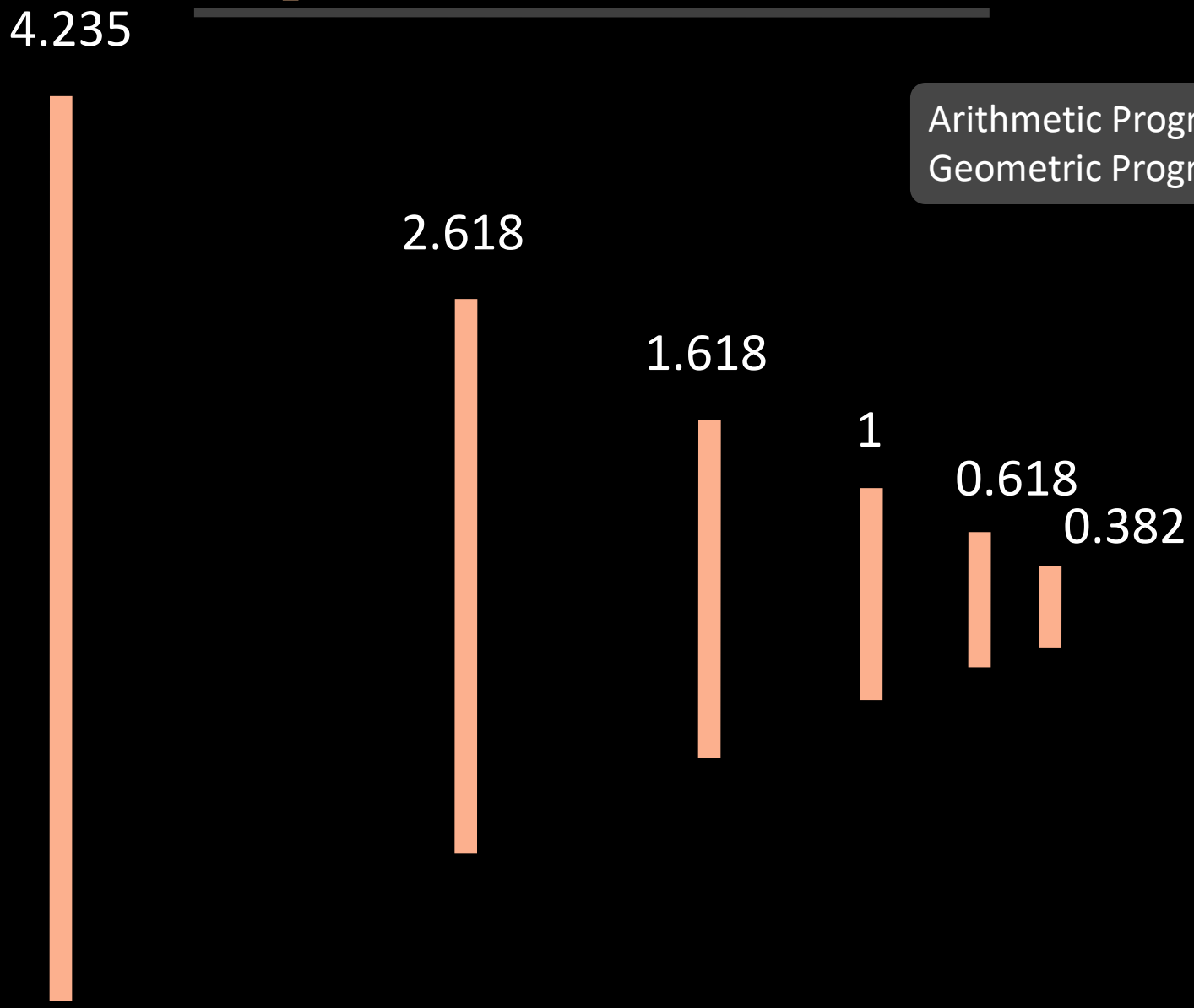


1 unit

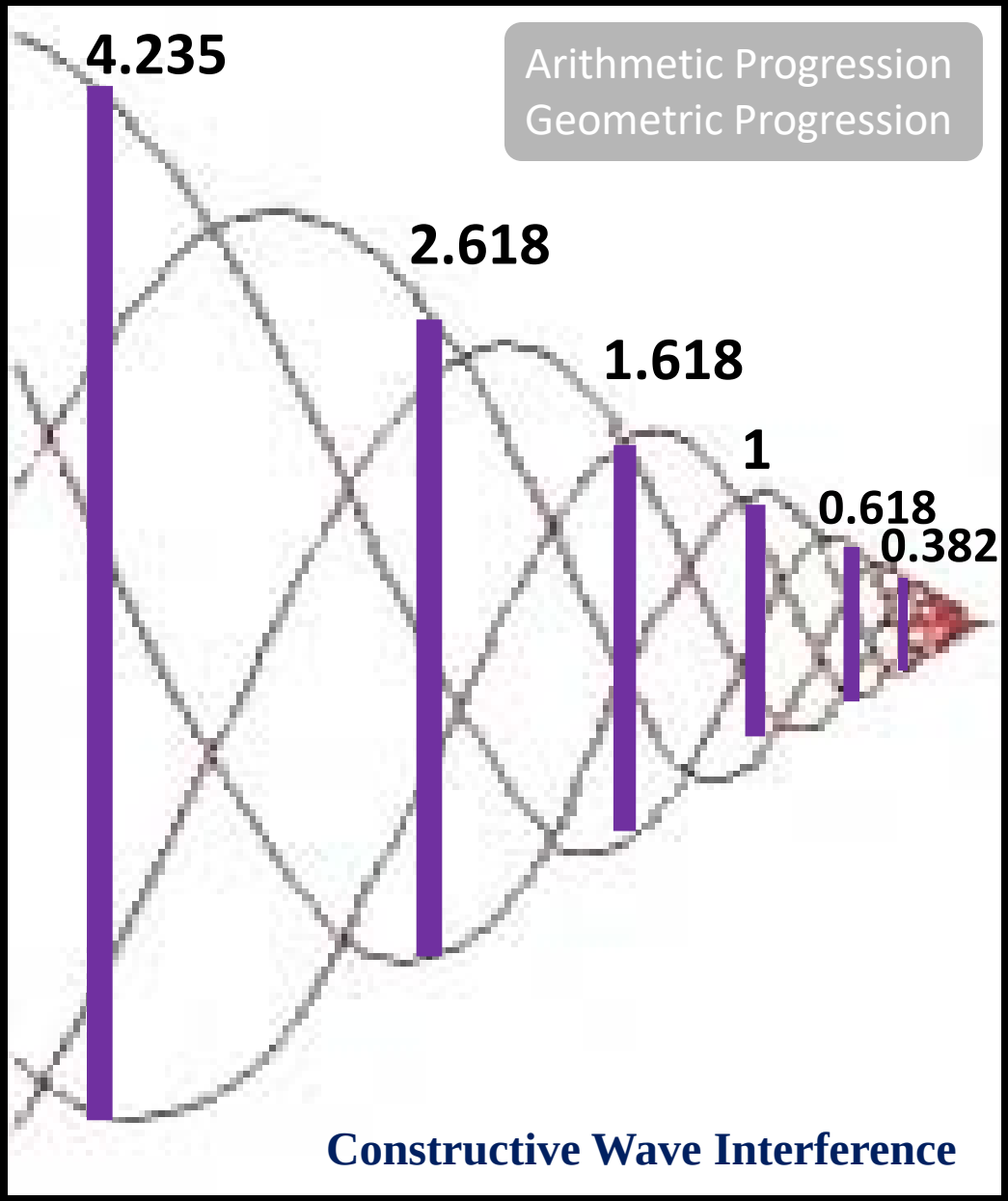
0.618

0.382

Exponents of Golden Ratio

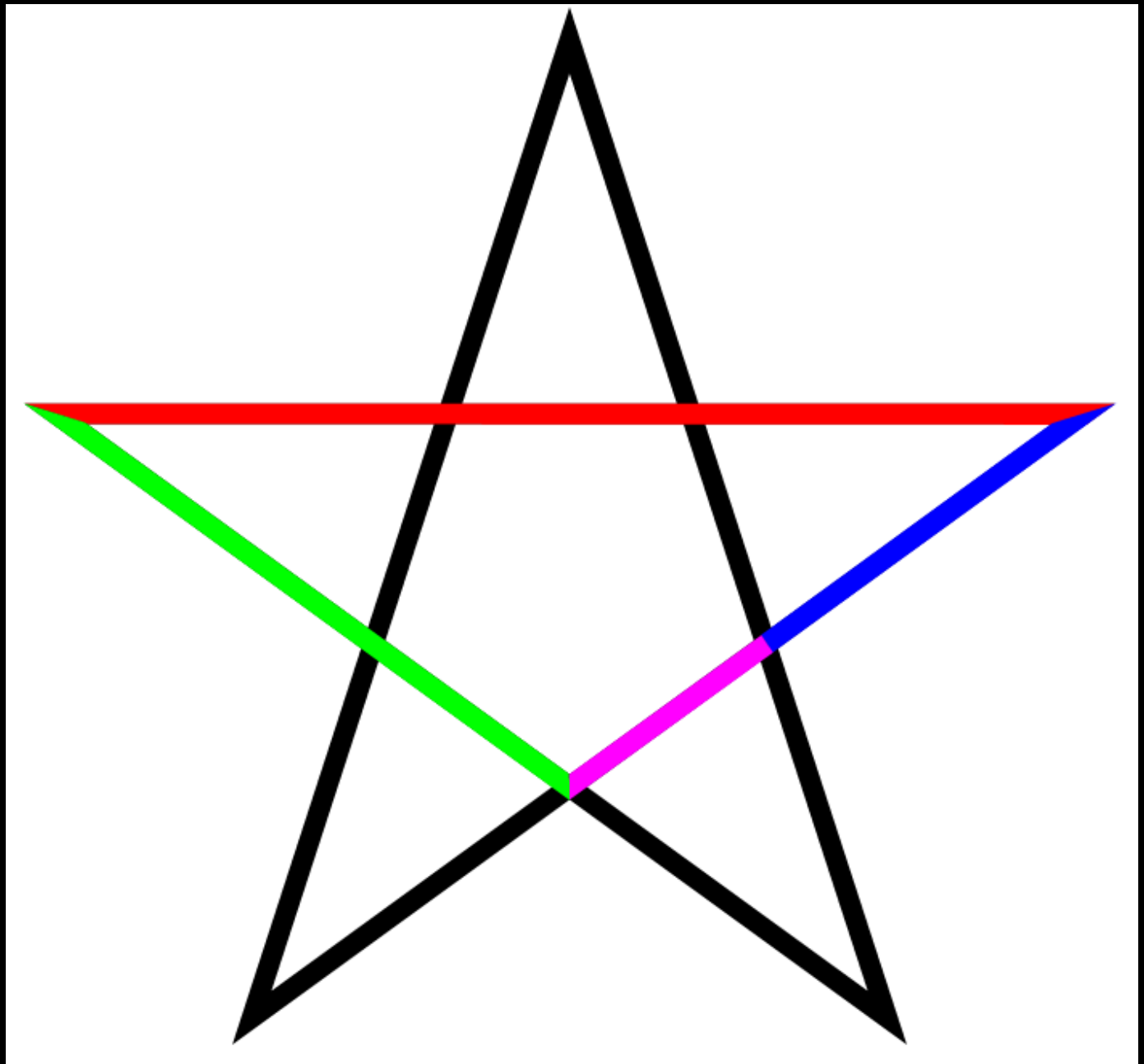


Exponents of Golden Ratio



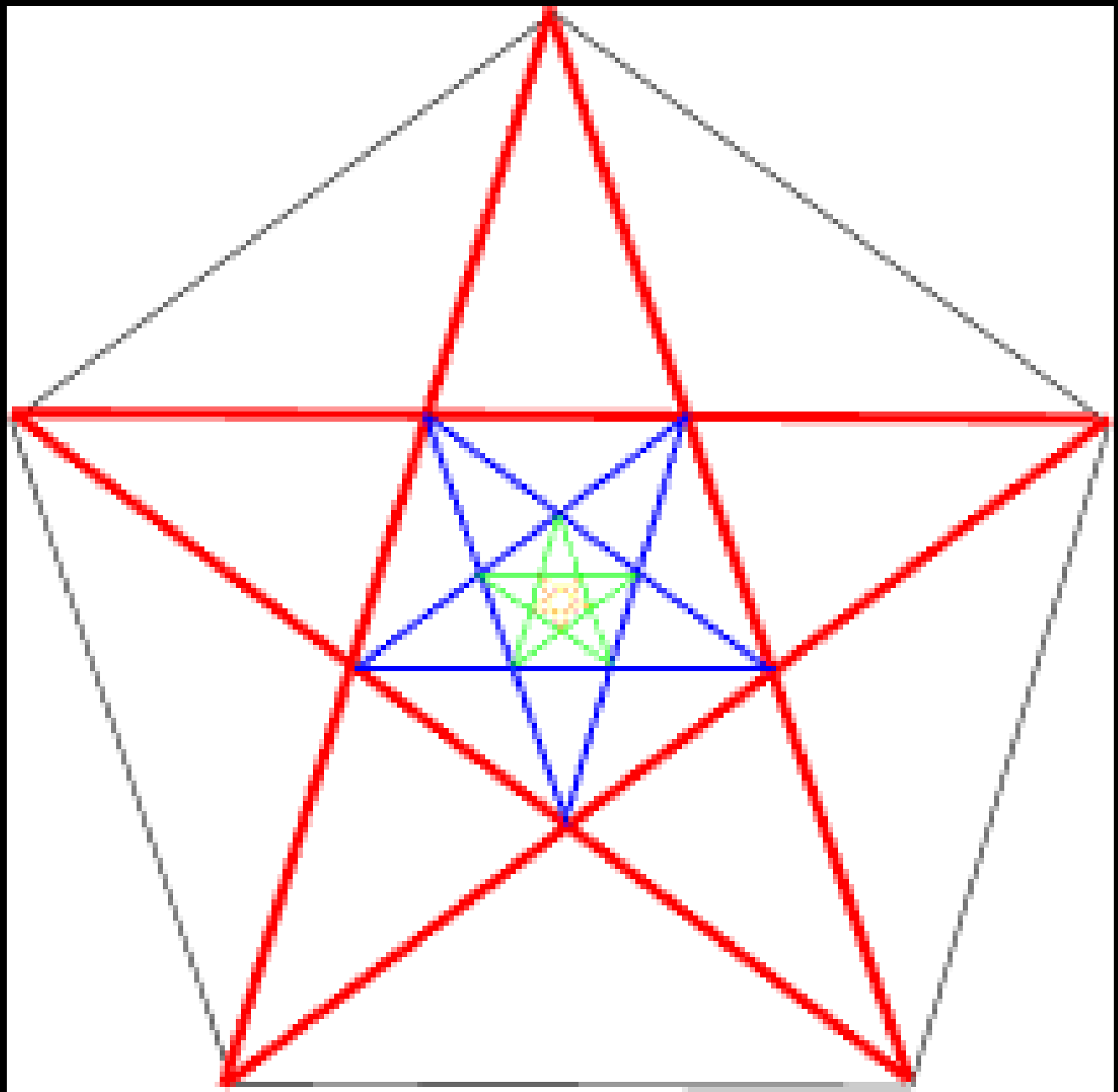
Fractal Field Science

Golden Ratio in a Star



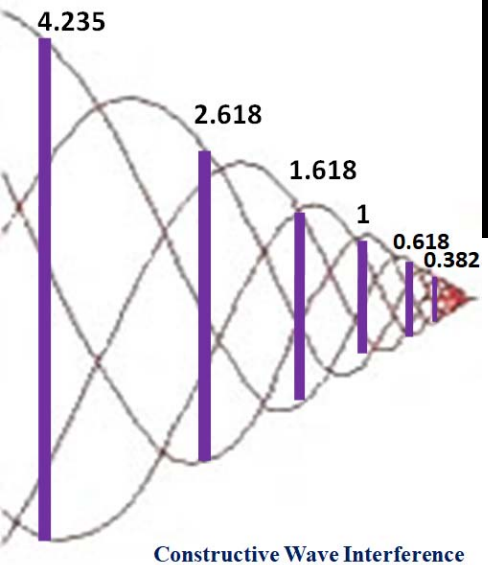
Fractal Field Science

Implosive Charge Collapse

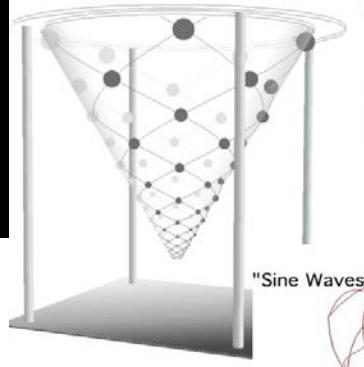


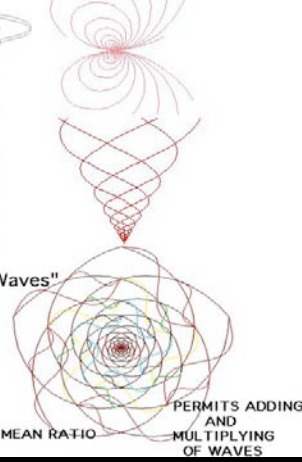
Fractal
Field
Science

Implosive Charge Collapse

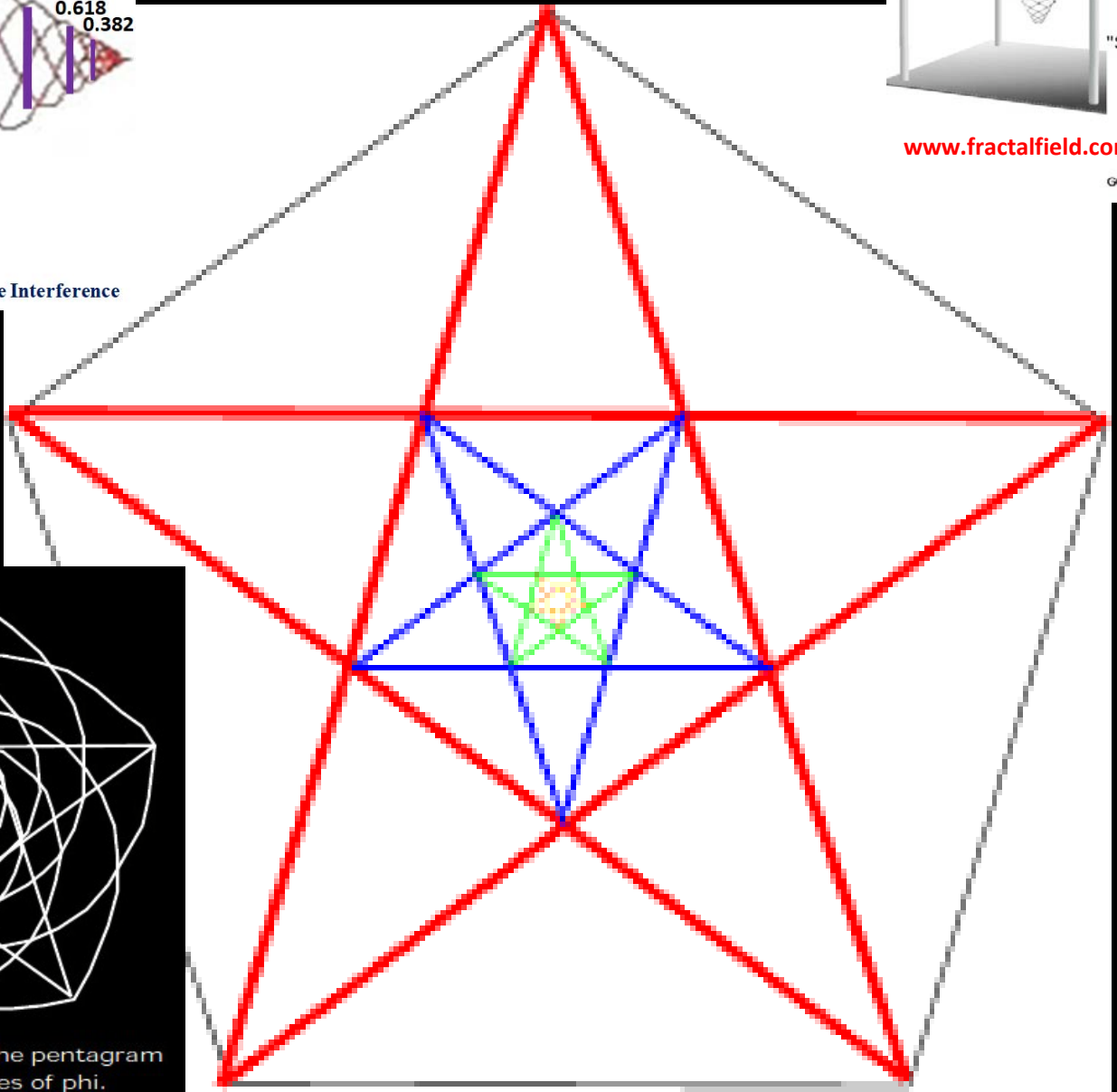


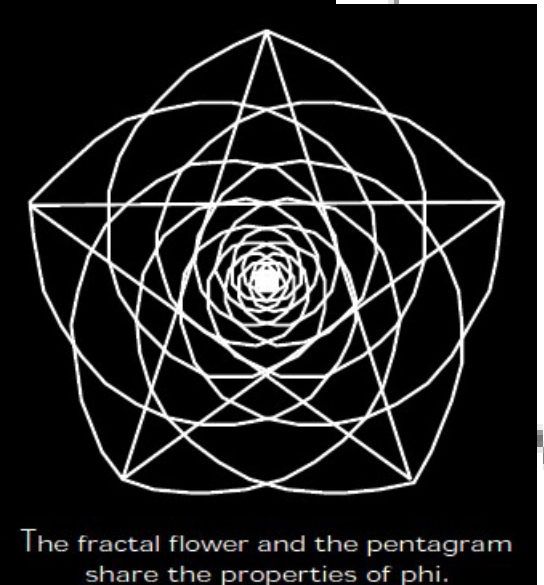
Constructive Wave Interference





www.fractalfield.com

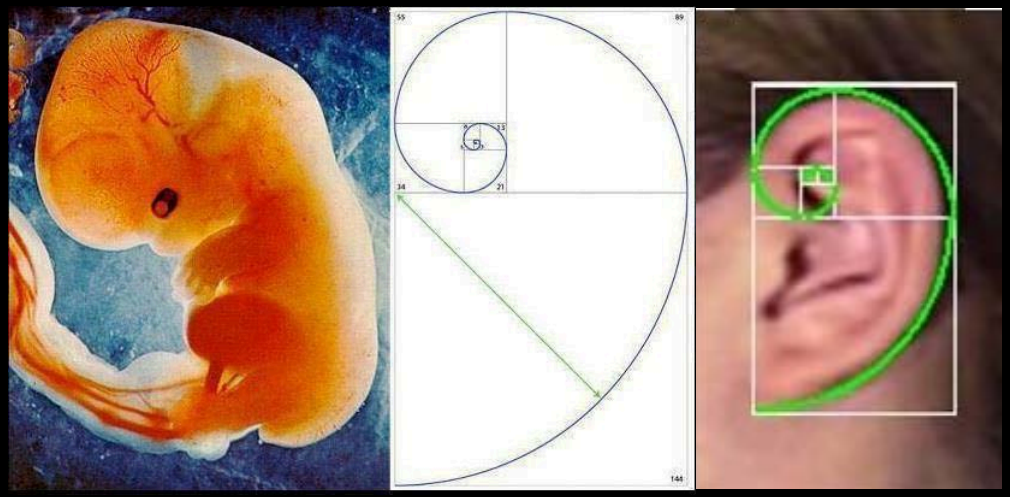


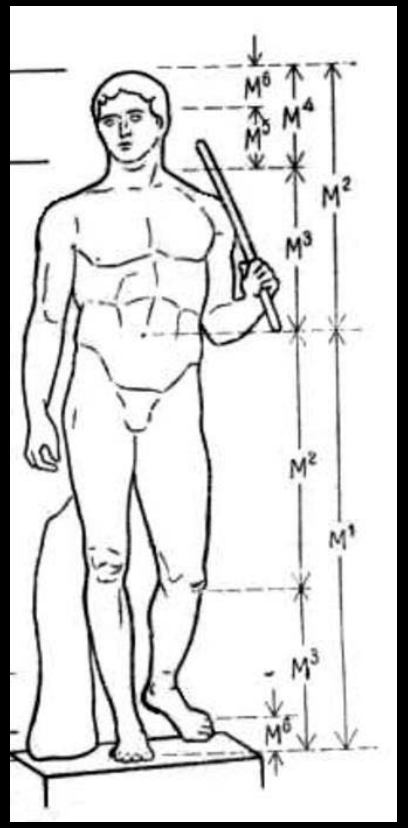


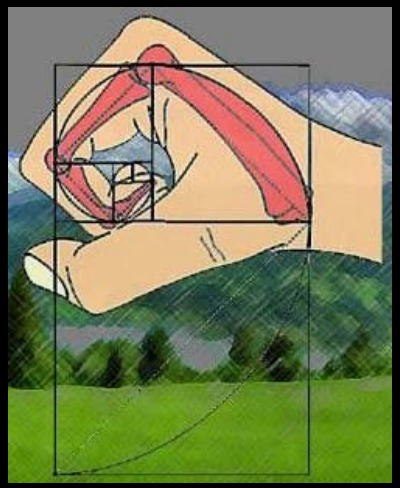
The fractal flower and the pentagram share the properties of phi.

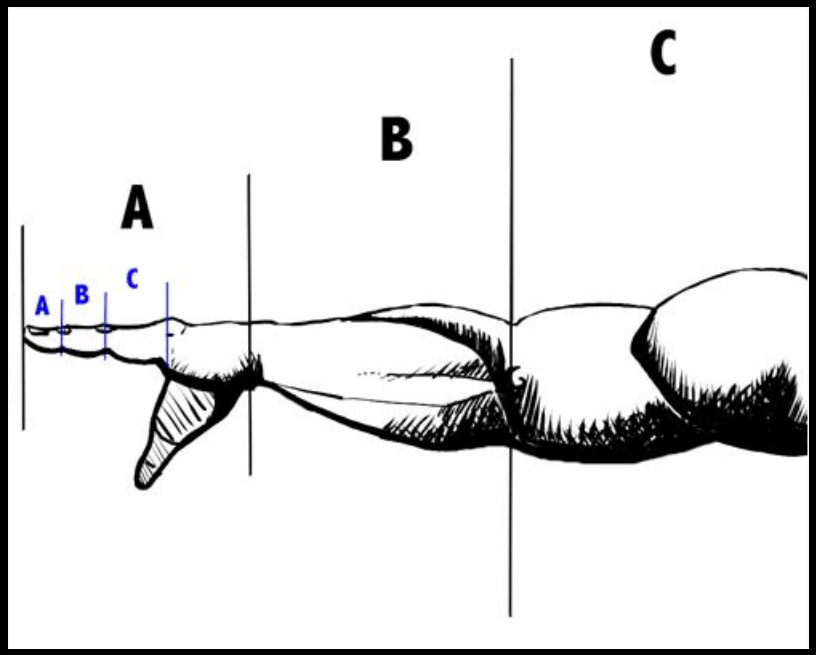
Fractal Field Science

Golden Ratio in Human Body



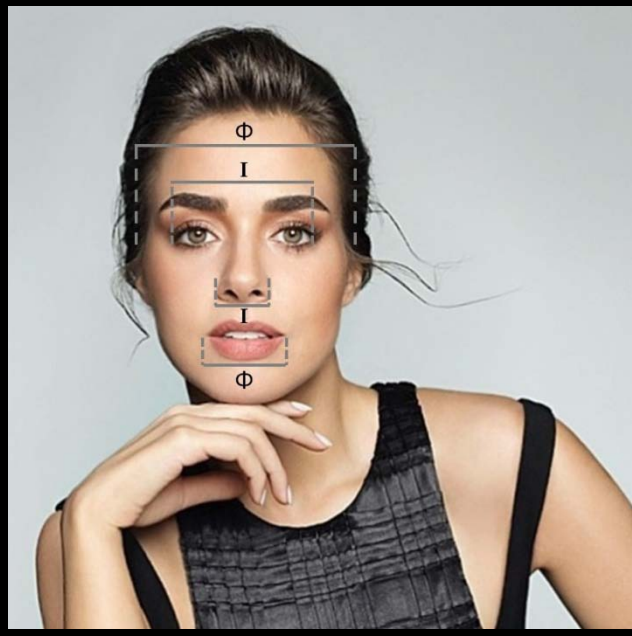




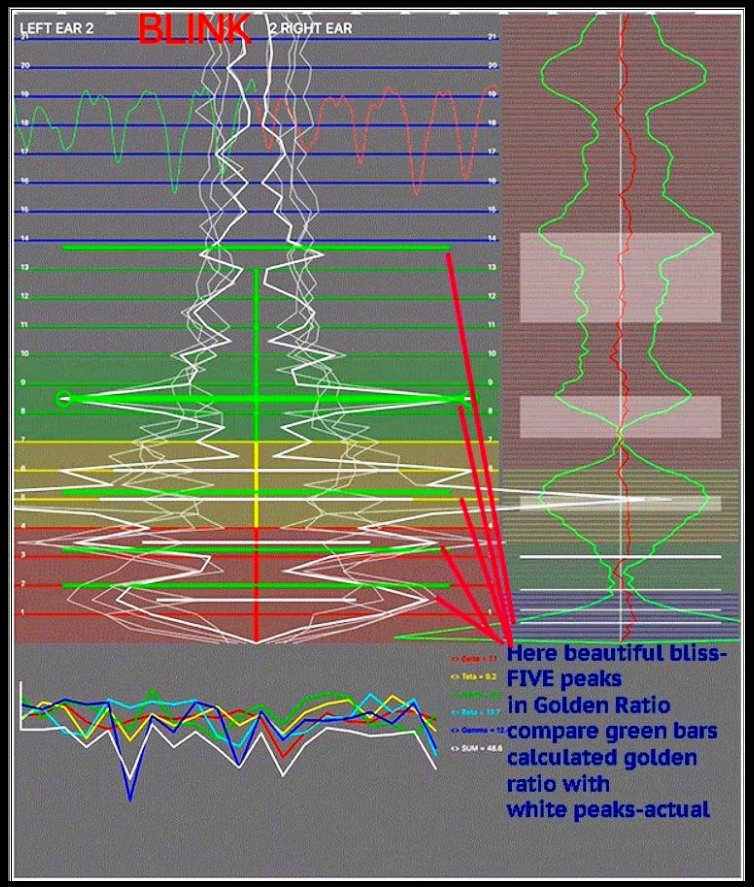


Fractal Field Science

Golden Ratio in Human Body



Golden Ratio in Brain Waves



http://flameinmind.com
http://ithrve.com
from Dan Winter & Patrick Botte

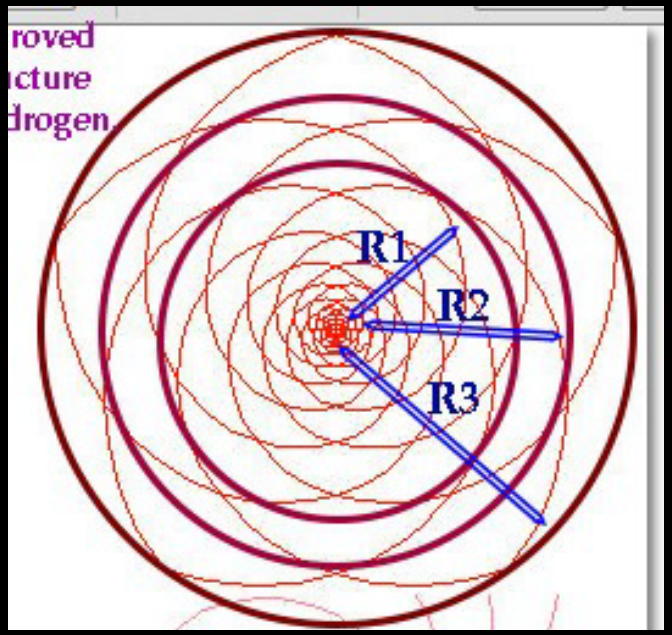
-Measure and teach- the correct bliss/ ecstacy / Flame in the Mind- Brainwave signature

- Measure and compare the worlds most complete Biofeedback Coherence- check BRAINWAVE entrainment to HRV / Breath / Sacral-Cranial - with our companion advanced HRV app: ithrve.com - see www.hrv-app.com/realheartcoherence

FLAMEINMIND Brainwave system INTEGRATEs Breath wave/HRV/SacroCranial Harmonics to show Complete Brain-Heart-Breath Entrainment -becoming the worlds most complete empowering Biofeedback System.

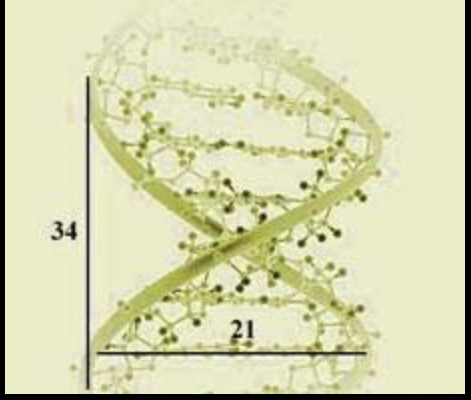
Fractal Field Science

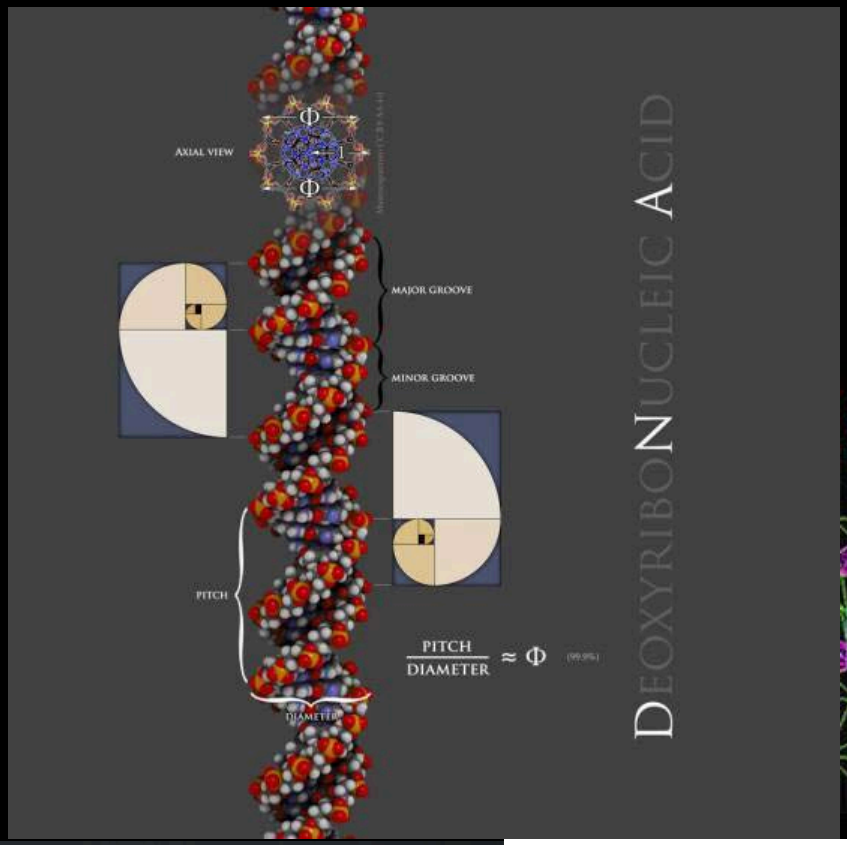
Golden Ratio in Quantum Field

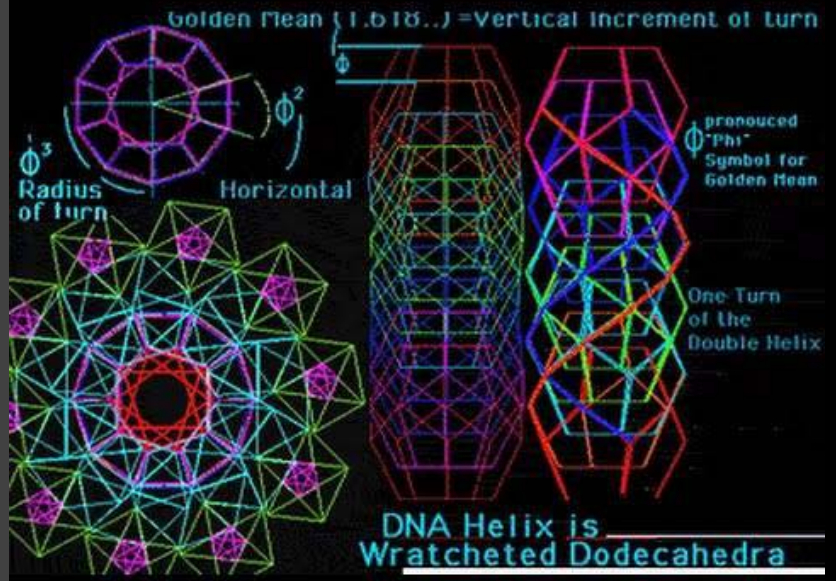


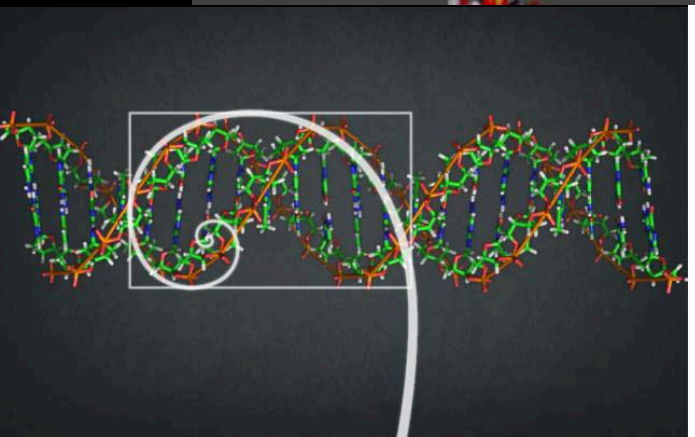
Dan Winter has proved that hydrogen radii are exact golden ratio phase conjugate multiples of planck fitting perfectly to the universal frequency caduceus which is exactly golden ratio exponents of planck length/time, origin of all biologic negentropy.

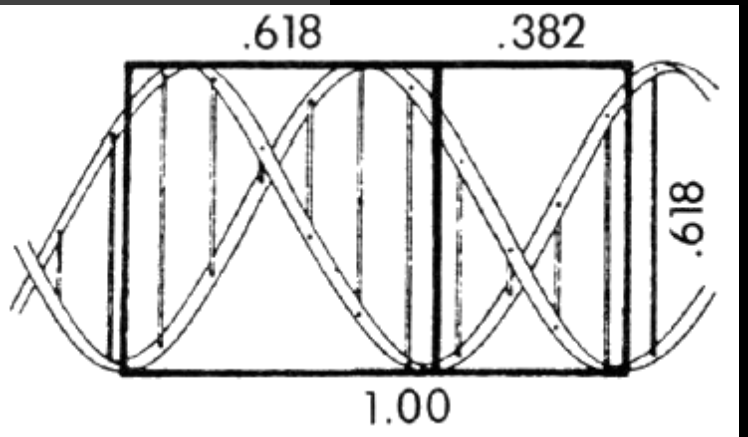
Golden Ratio in DNA











Fractal Field Science

Purpose of DNA

YouTube UA

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The Purpose of DNA | Dan Winter

49,948 views

617 21 SHARE

Golden Ratio in Quantum Physics

While working on the Heisenberg's Uncertainty Principle, researchers from the Helmholtz-Zentrum Berlin für Materialien und Energie (HZB), in cooperation with colleagues from Oxford and Bristol Universities, as well as the Rutherford Appleton Laboratory, UK, have for the first time observed and measured the signatures of a nanoscale symmetry showing the same attributes as the golden ratio.

https://arxiv.org/ftp/arxiv/papers/1103/1103.3694.pdf

Condensed Matter > Strongly Correlated Electrons

Quantum criticality in an Ising chain: experimental evidence for emergent E8 symmetry

R. Coldea, D.A. Tennant, E.M. Wheeler, E. Wawrzynska, D. Prabhakaran, M. Telling, K. Habicht, P. Smeibidl, K. Kiefer

(Submitted on 18 Mar 2011)

Quantum phase transitions take place between distinct phases of matter at zero temperature. Near the transition point, exotic quantum symmetries can emerge that govern the excitation spectrum of the system. A symmetry described by the E8 Lie group with a spectrum of 8 particles was long predicted to appear near the critical point of an Ising chain. We realize this system experimentally by tuning the quasi-one-dimensional Ising ferromagnet CoNb2O6 through its critical point using strong transverse magnetic fields. The spin excitations are observed to change character from pairs of kinks in the ordered phase to spin-flips in the paramagnetic phase. Just below the critical field, the spin dynamics shows a fine structure with two sharp modes at low energies, in a ratio that approaches the golden mean as predicted for the first two meson particles of the E8 spectrum. Our results demonstrate the power of symmetry to describe complex quantum behaviours.

Comments:	18 pages with embedded figures
Subjects:	**Strongly Correlated Electrons (cond-mat.str-el)**
Journal reference:	Science 327, 177 (2010)
DOI:	10.1126/science.1180085
Cite as:	**arXiv:1103.3694 [cond-mat.str-el]**
	(or **arXiv:1103.3694v1 [cond-mat.str-el]** for this version)

Submission history

From: Radu Coldea [view email]

[v1] Fri, 18 Mar 2011 19:48:27 GMT (607kb)

Fractal Field Science

Golden Ratio in Nanotechnology

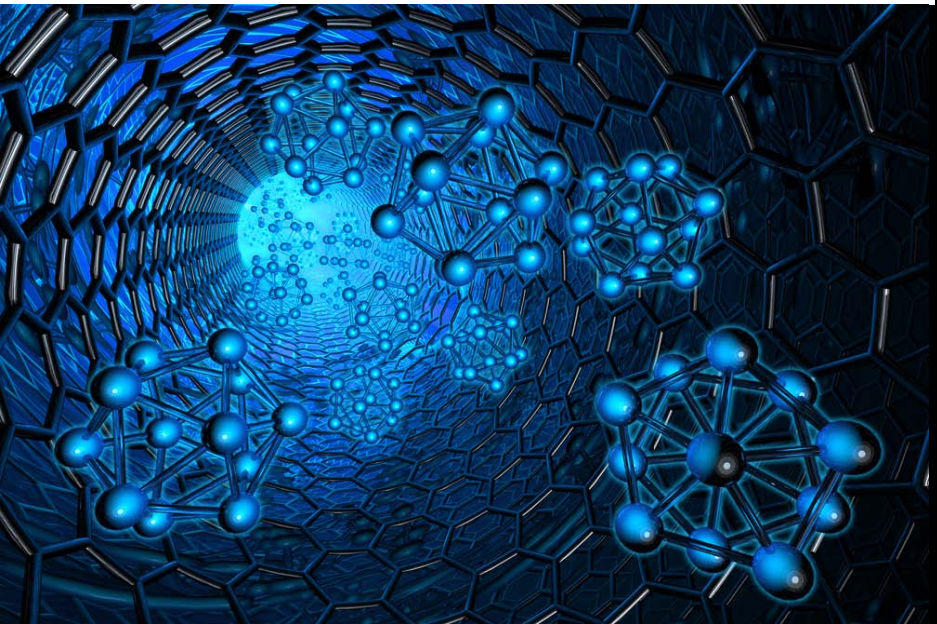
Molecular Nanotechnology: Golden Mean as a Driving Force of Self-Assembly

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

Abstract: In this paper we are considering self-assembly approach from nanobiology to molecular nanotechnology. Because the genetic code, as a most complex biomolecular system, is determined by Golden mean, we used it knowledge to study approaches to nanotechnology. Understanding protein self-assembly driving force and structure of clathrin and microtubules based on Golden mean we have found that fullerene C_{60} and nanotubes could be very useful materials for molecular nanotechnology. One possible solution as a sample is given.

Key-words: Golden mean, nanobiology, clathrin, microtubules, molecule C_{60}, nanotubes, molecular nanotechnology



assembly or disassembly of their subunits. Assembly/disassembly is sensitive to cold, high hydrostatic pressure, several specific chemicals such as colchicine and vinblastine, and other factors.

Since some experimental results link tubulin and microtubules to bioinformation processes such as memory, learning and consciousness microtubules have become the subject of intensive research. [7-9]

2.3 Golden Mean in Nanomaterials

2.3.1 Molecule C_{60}

The C_{60} molecule is the third known pure crystal form of carbon, in addition to graphite and diamond. It is predicted in 1970 by Japanise scientist Osawa, and synthesis in 1985 by Kroto/Smalley research team. The electronic structure is a complex, "many body" problem, because there are 360 electrons. Conversely, the C_{60} molecule has attributes of a "big atom", because it has a close spherical electronic shell and possesses unique icosahedral symmetry properties. In the truncated icosahedral structure there are two characteristic C-C bond lengths: C_5-C_5 in pentagons, C_5-C_6 double bonds in hexagons (or link between two pentagons).

There are sixty carbon p_z orbitals, each pointed along radial axes. If interactions among p_z orbitals belonging to carbon atoms on a certain pentagon are considered and interactions among orbitals located on different pentagons (there are 12 such pentagons) are neglected, then the five eigenstates based on K_h symmetry (spherical harmonics).

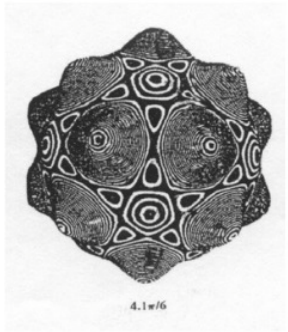


Figure 4: Golden mean surface energy state of molecule C_{60} [4]

There are three sets of orbitals which occur grouped together: ψ_0, $\psi_{1(+,-)}$, and $\psi_{2(+,-)}$. Interaction among 12 pentagons will split the twelve ψ_0 orbitals to $A_g + H_g + T_{1u} + T_{2u}$, while the 24 $\psi_{1(+,-)}$ orbitals, two per pentagon, will split into $T_{1g} + G_g + H_g + T_{1u} + G_u + H_u$, irreducible representations (or symmetries). The final 24 $\psi_{2(+,-)}$ orbitals, with the highest energy, will be split into T_{2g}, G_u, G_g, H_u, T_{2u} and H_g. Irreducible representations T_{1g}, T_{2g},T_{1u} and T_{2u} for symmetry elements C_5 and S_{10} possess Golden mean properties.[4]

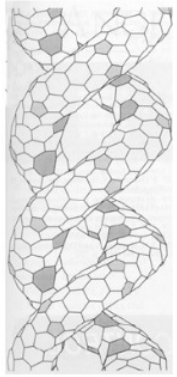
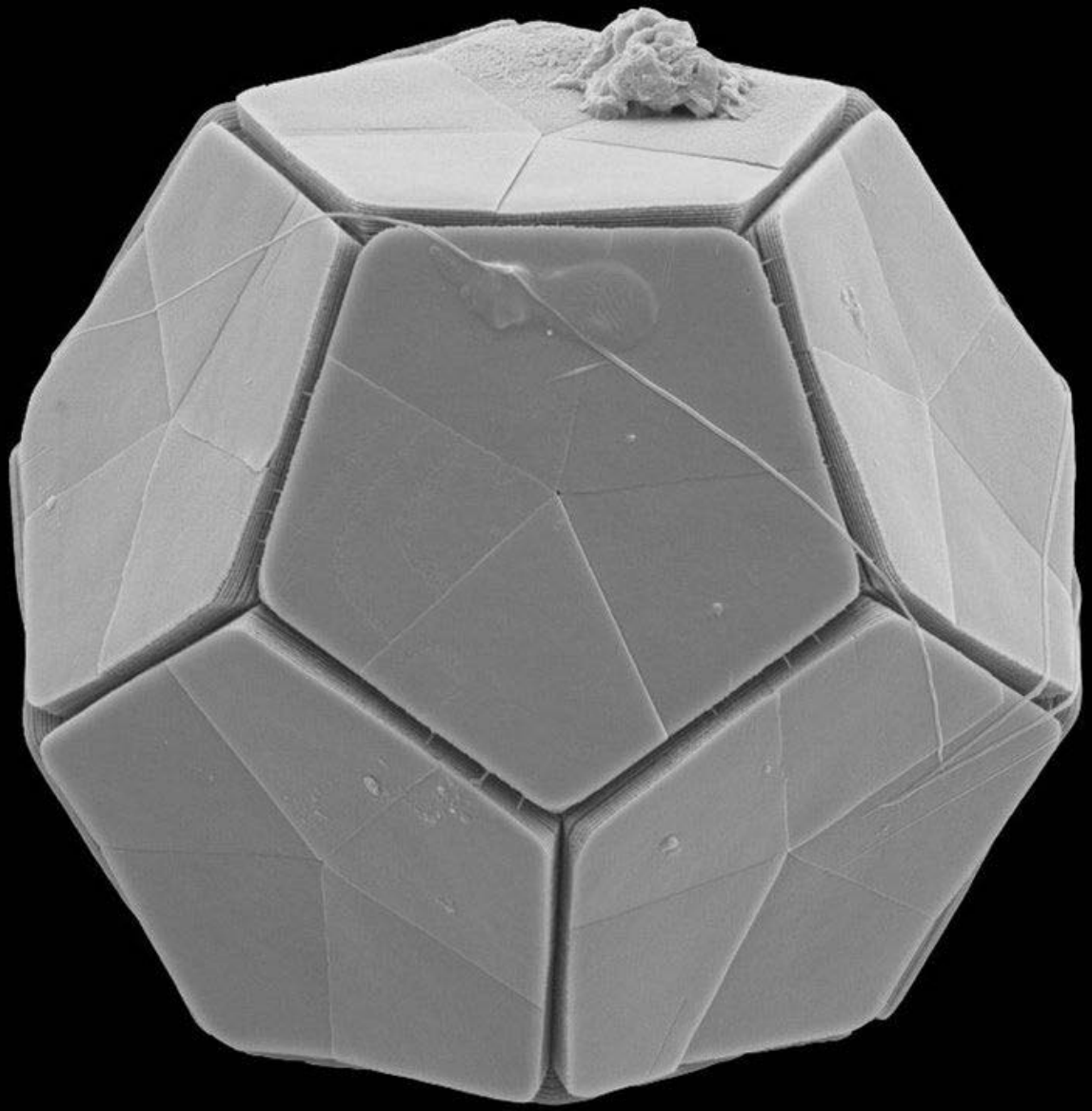


Figure 5: Nanotubes as a double-helix (proposed by Osawa [10]) could be very important basic element for molecular nanotechnology based on self-assembly

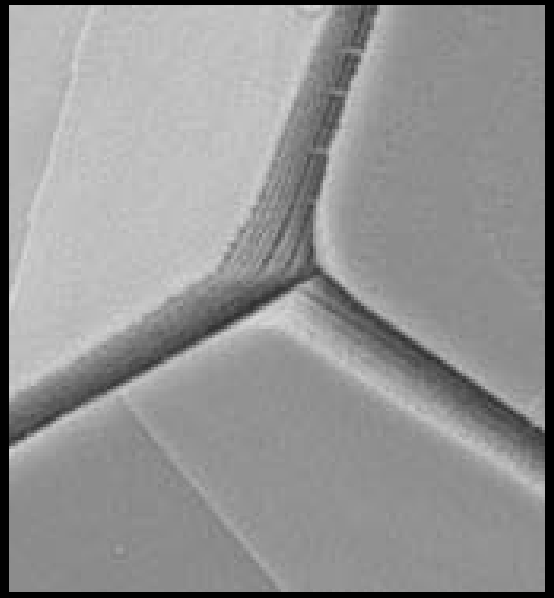
2.3.2 Nanotubes

Nanotubes are similar

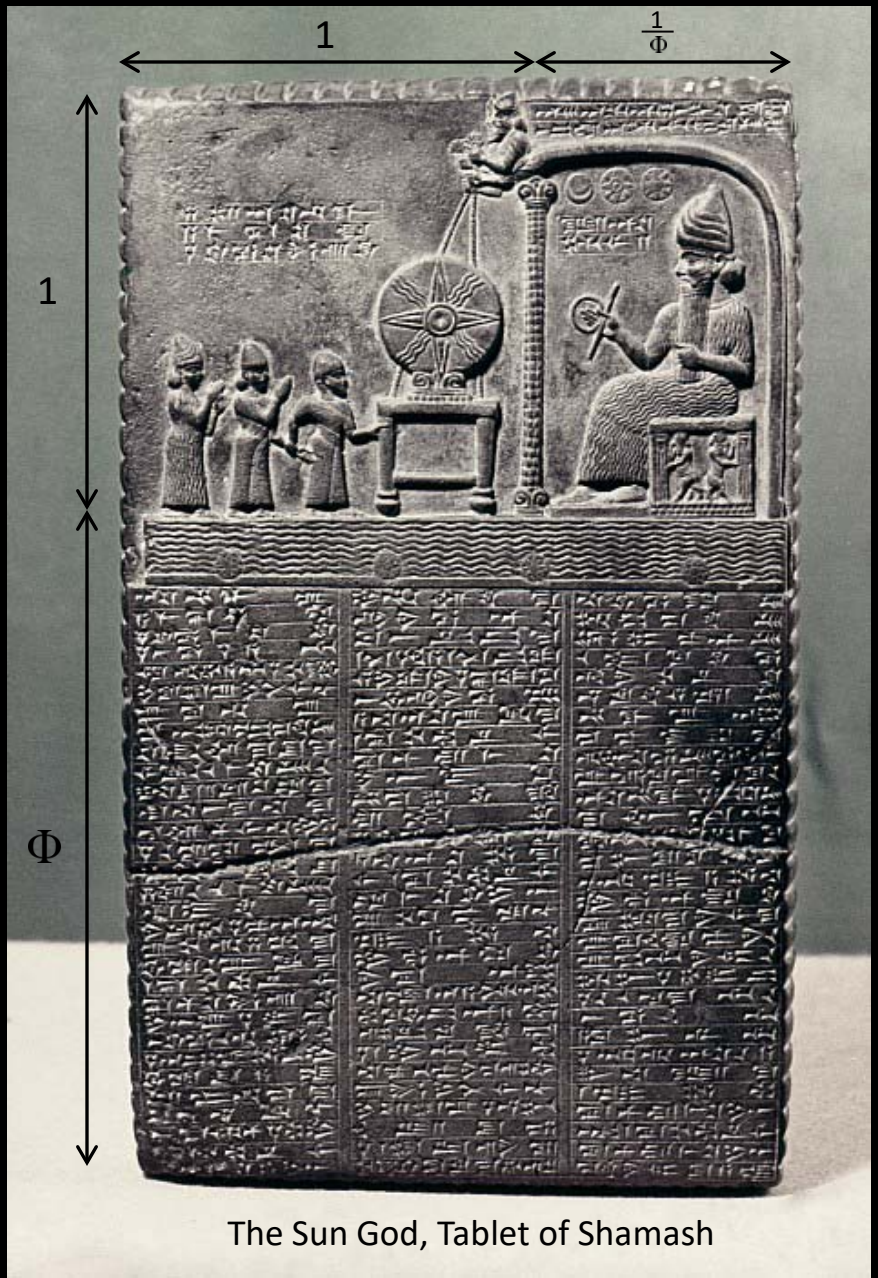
Dodecahedron Plankton (Braarudosphaeraceae)



Has been around for 66 million years and survived the K/Pg mass extinction that resulted in the demise of ca. 76% of species with fossil record including ca. 90% of calcareous nannofossils.



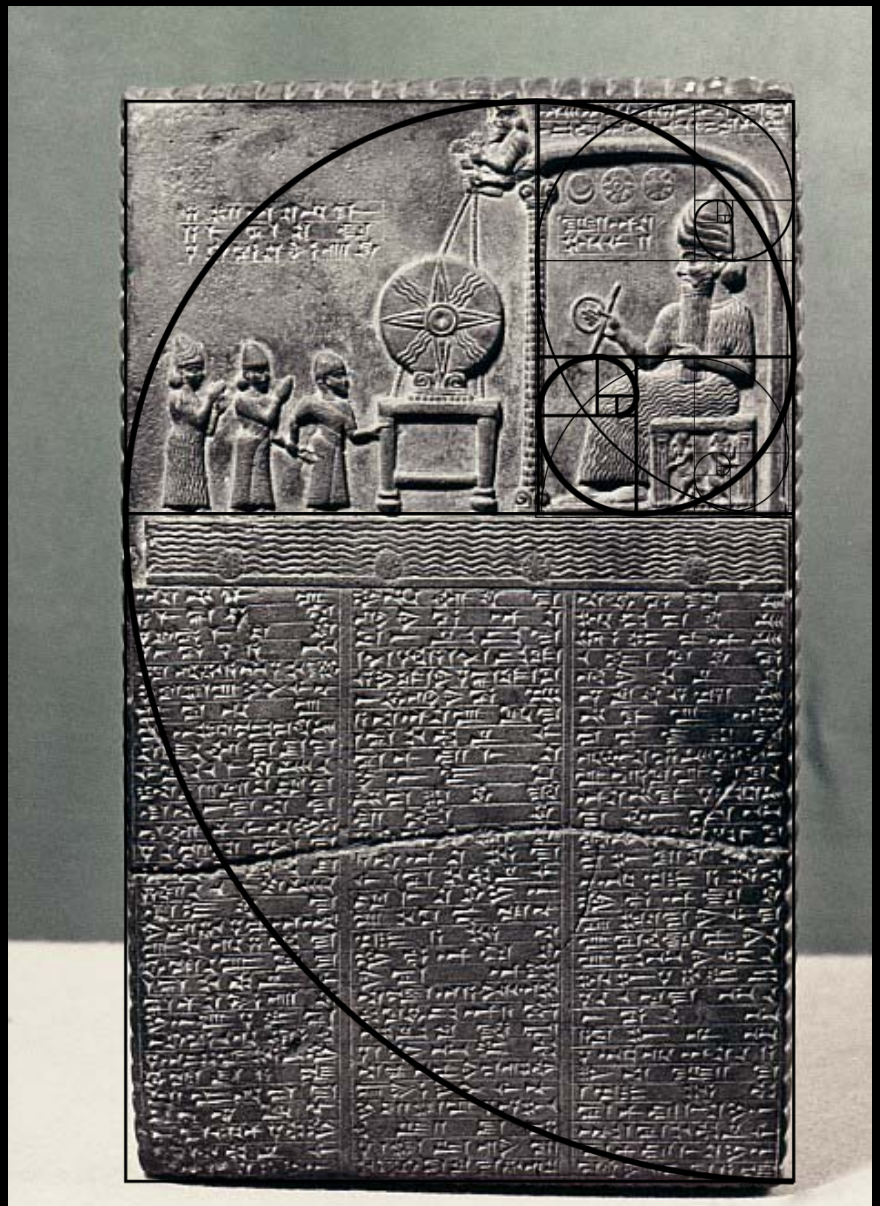
Golden Ratio in Sumerian Tablets



The Sun God, Tablet of Shamash

The stone tablet was recovered from the ancient Babylonian city of Sippar in southern Iraq in 1881; it is now a major piece in the British Museum's ancient Middle East collection.

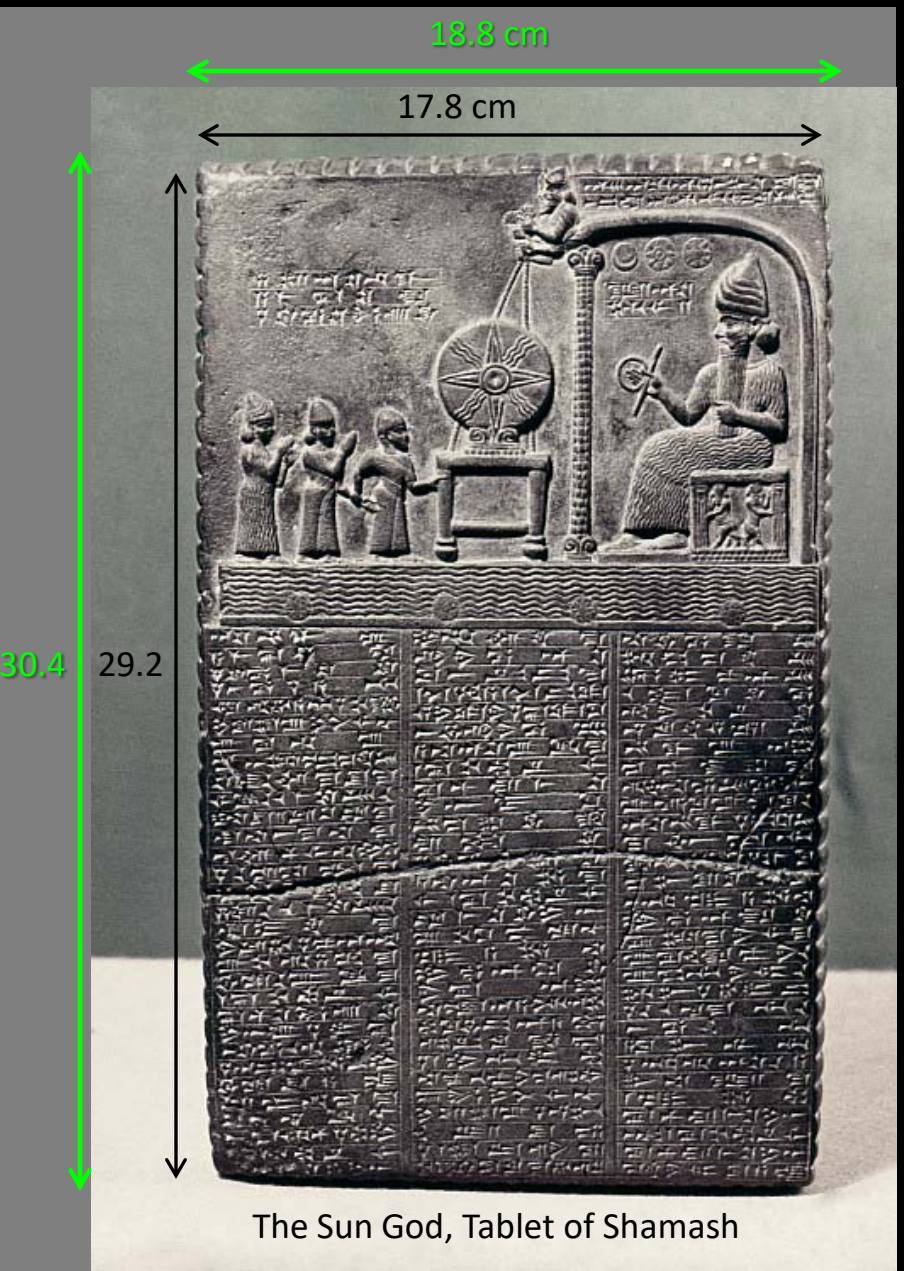
Golden Ratio in Sumerian Tablets



The Sun God, Tablet of Shamash

Fractal Field Science

Charge Embedding in Sumerian Tablets



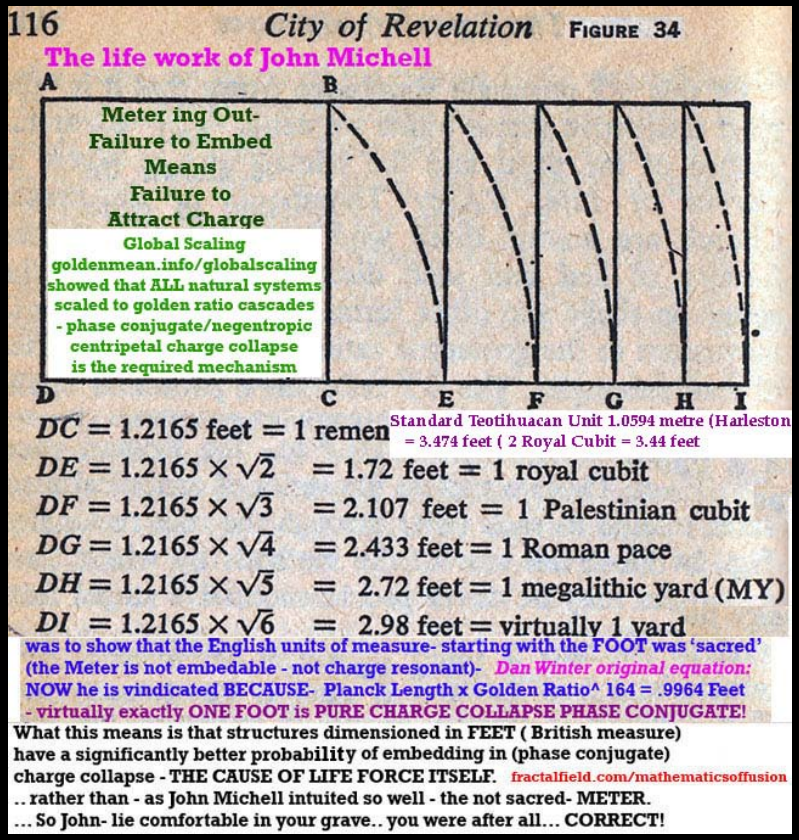
The Sun God, Tablet of Shamash

Measurements in green are based on the 'sacred' foot (charge resonant, phase conjugate) which are explained first by John Michell's and later by Dan Winter's equations independently (below pic).

Planck Length x Golden Ratio^ 164= .9964 Feet (High probability of embedding in charge collapse) –fractalfield.com/mathematicsoffusion

Measurements in black are actual measurements in the British Museum

Can we explain the difference in size by the depreciation of the tablet over time?



Fractal Field Science

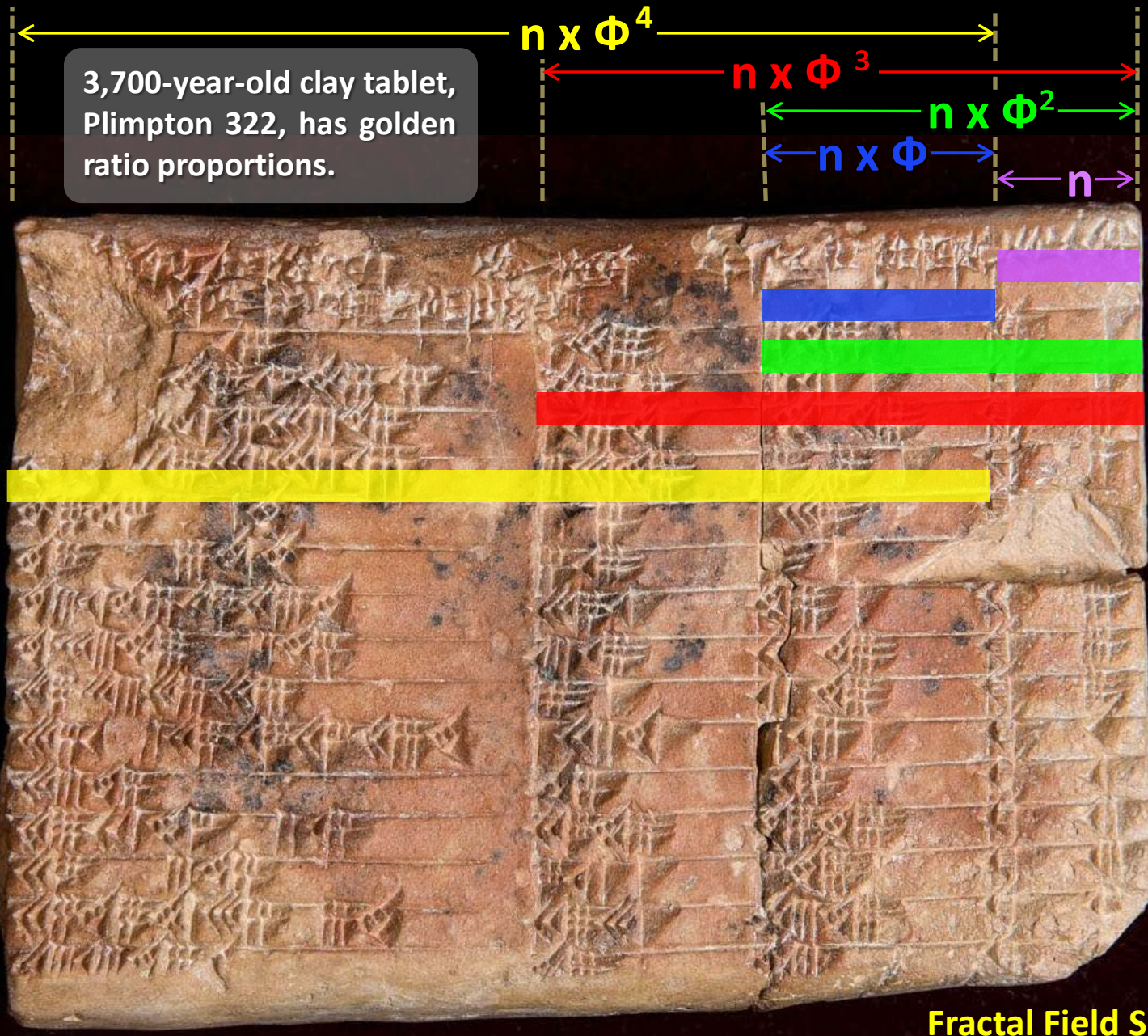
Golden Ratio & Trigonometry in Sumerian Tablets

Plimpton 322 is a Babylonian clay tablet, notable as containing an example of Babylonian mathematics.

- Plimpton 322 contains a fragment from a proto-trigonometric table.
- The Babylonians discovered exact sexagesimal trigonometry at least 1500 years before the ancient Greeks discovered trigonometry.
- Babylonian exact sexagesimal trigonometry uses exact ratios and square ratios instead of approximation and angles.

Fractal Field Science

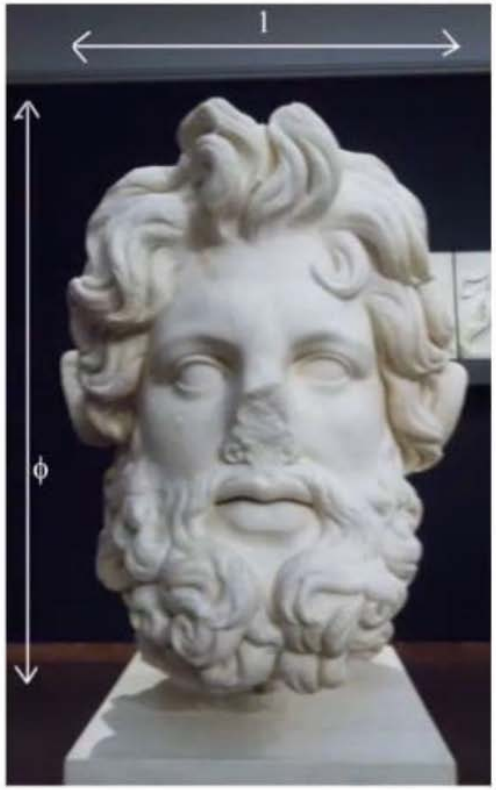
Golden Ratio in Sumerian Tablets



Fractal Field Science

Golden Ratio in Historical Artifacts

Artemis (İsis, Diana),
Ephesus Museum
(G. Gündüz, Kargaşa,
Kaos ve Şekil Oluşumları)



(Zeus, Enlil)

(Seljuk head, 12-13 cent)

(Historisches Museum, Frankfurt)
(http://tarihvearkeoloji.blogspot.com.tr/2014/08/reading-history-from-gravestones-and.html)
(Historisches Museum, Frankfurt)

2018 Smyrna Alchemical Reunion & Sacred Geometry Conference

Starts May 31, 2018 in Izmir, Turkey

Step into Magic...

·Speakers·


Dan Winter


Paul Harris


Terry Burns


Alan Moore


Ron LaPlace


Ata Nirun


Tufan Guven

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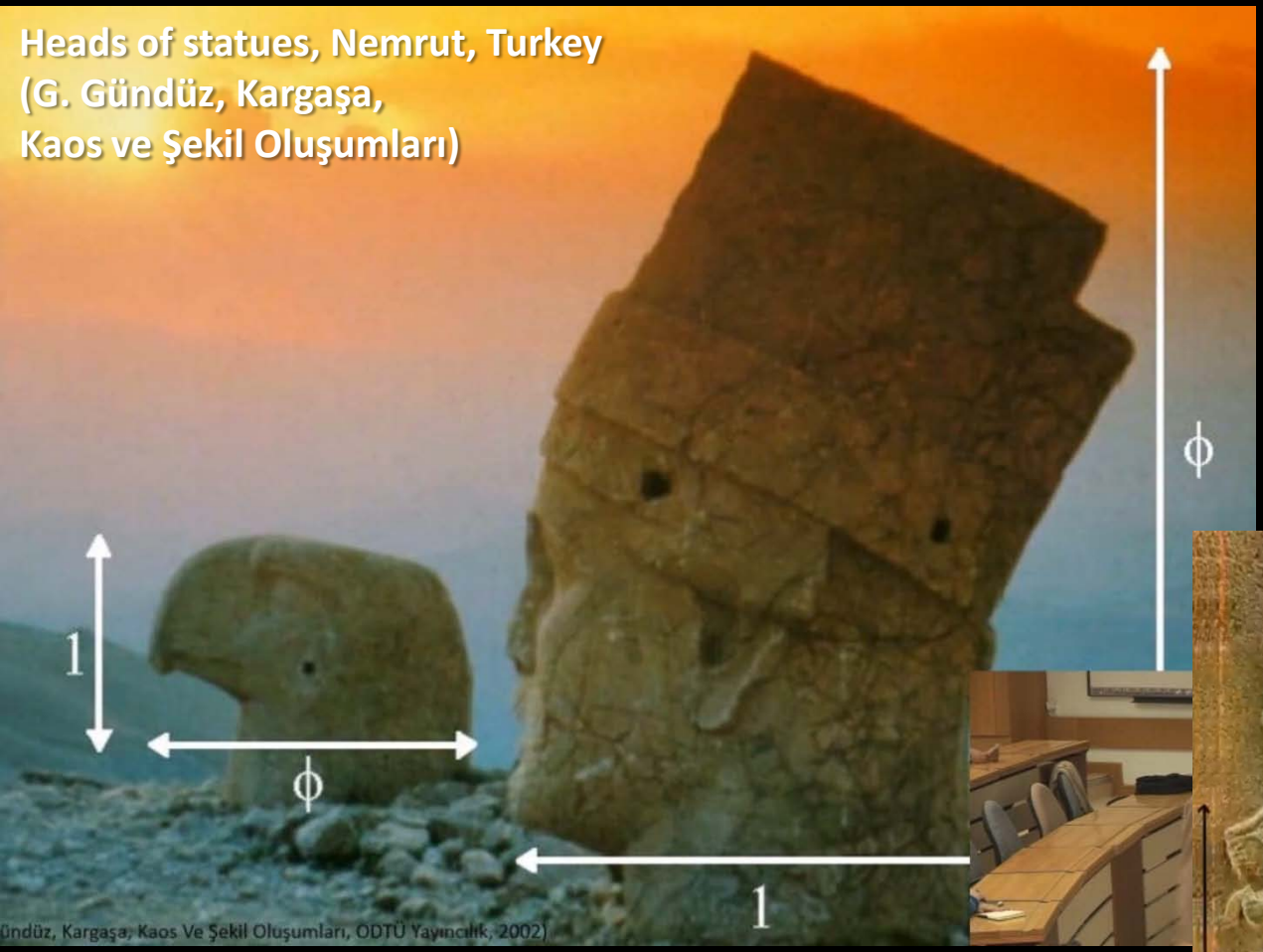
May 31 - June 4

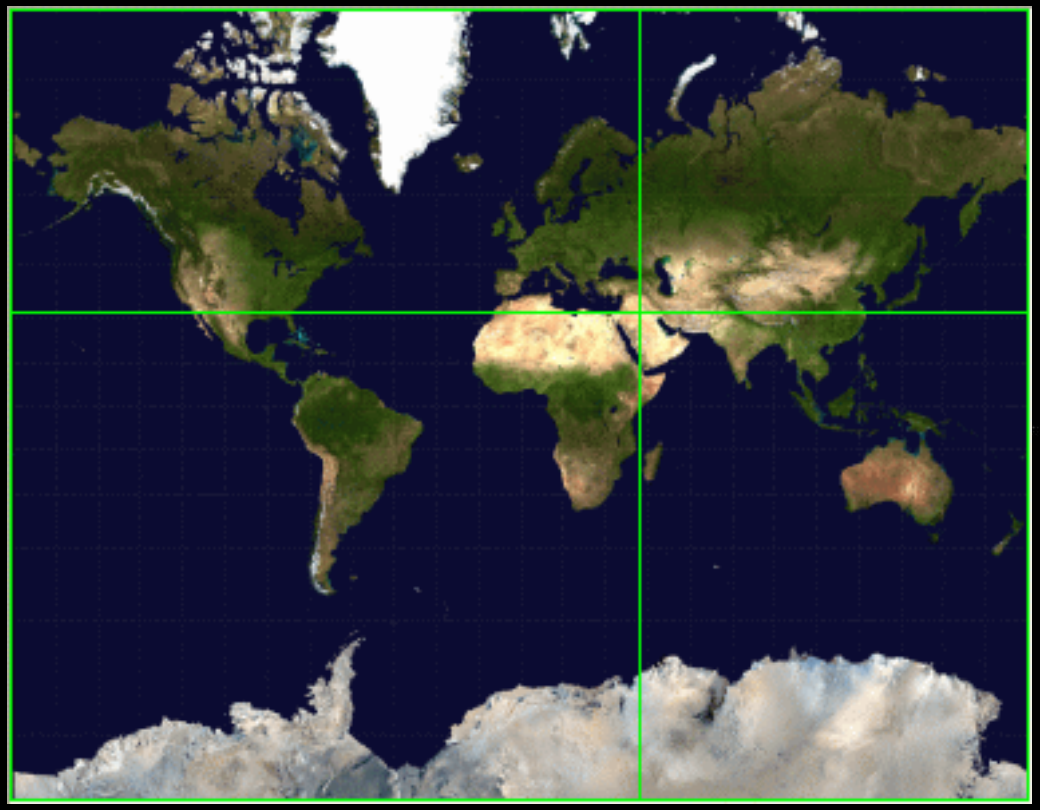
http://alchemicalreunion.com

Fractal Field Science

Golden Ratio in Historical Artifacts



Golden Ratio in Sacred Lands



Fractal Field Science

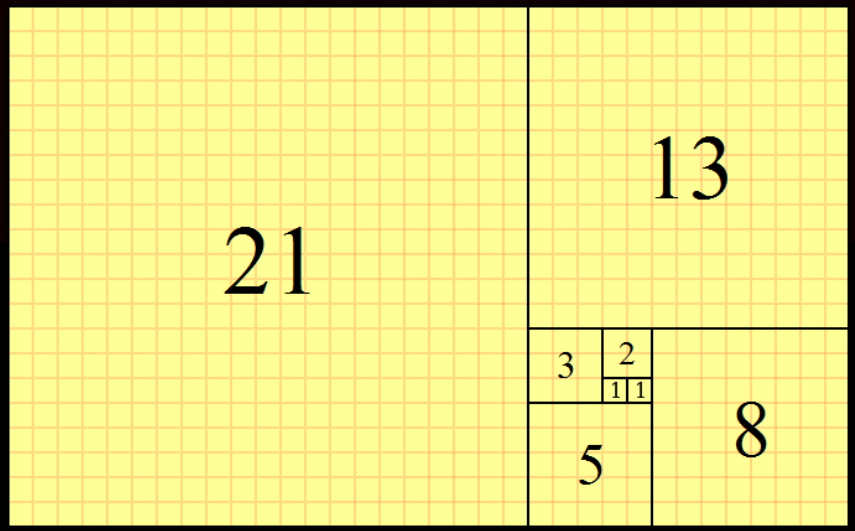
Fibonacci Series

1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89 etc.

34 + 55 = 89

The Fibonacci Sequence

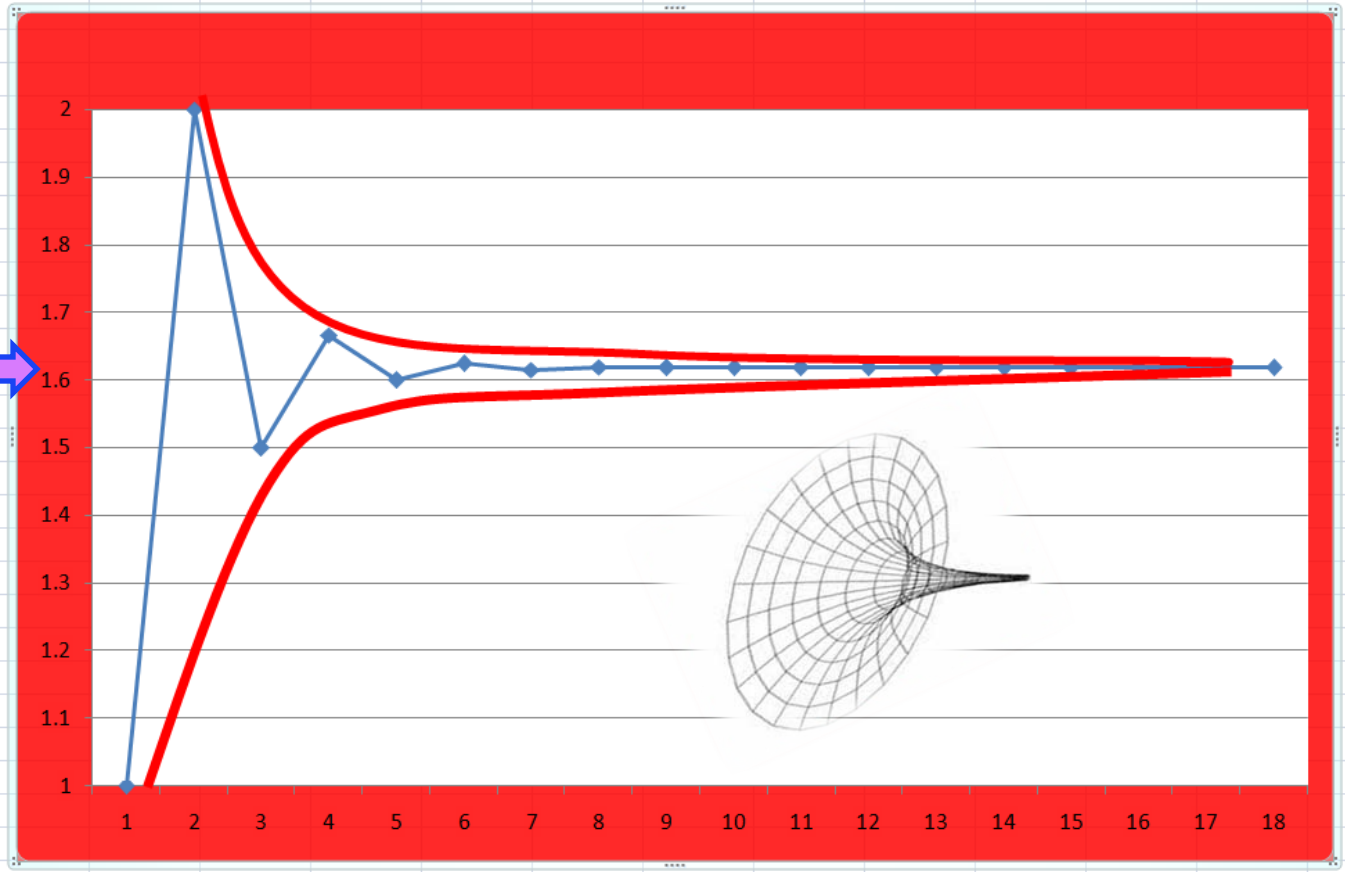
0+1=1
1+1=2
2+3=5
3+5=8
5+8=13
8+13=21
13+21=34
21+34=55
34+55=89
55+89=144
89+144=233
144+233=377
233+377=610
377+610=987
610+987=1597
987+1597=2584
1597+2584=4181
2584+4181=6765
(etc...)



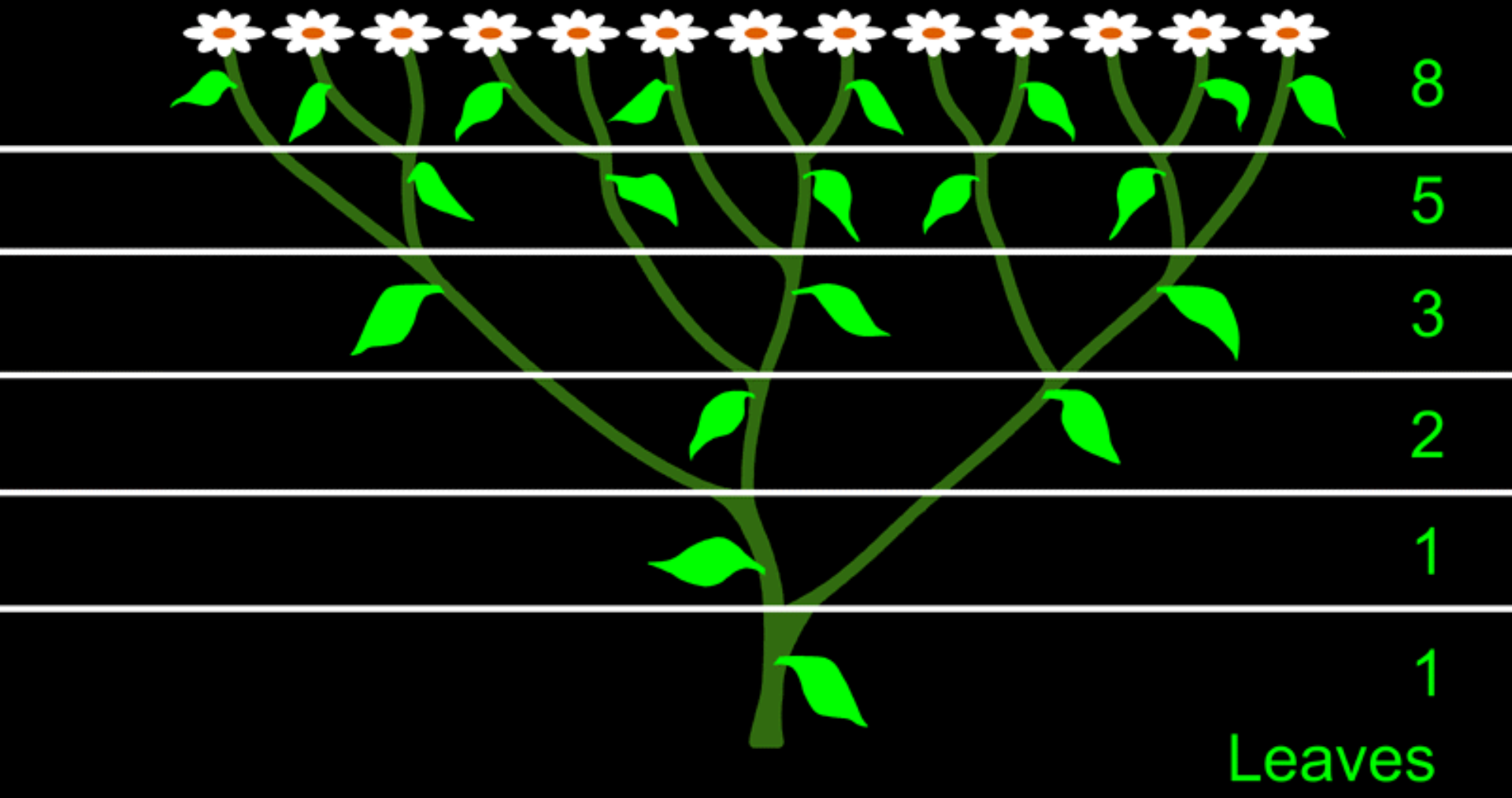
Fibonacci Series and the Golden Ratio

1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89 etc.

1/1=1.000000000...
2/1=2.000000000...
3/2=1.500000000...
5/3=1.666666666...
8/5=1.600000000...
13/8=1.625000000...
21/13=1.615384615...
34/21=1.619047619...
55/34=1.617647059...
89/55=1.618181818...
144/89=1.617977528...
233/144=1.618055555...
377/233=1.618025751...
610/377=1.618037135...
987/610=1.618032787...
1597/987=1.618034448...
2584/1597=1.618033813...
4181/2584=1.618034056...
6765/4181=1.618033963...



Fibonacci Series in Plants



Fractal Field Science

1
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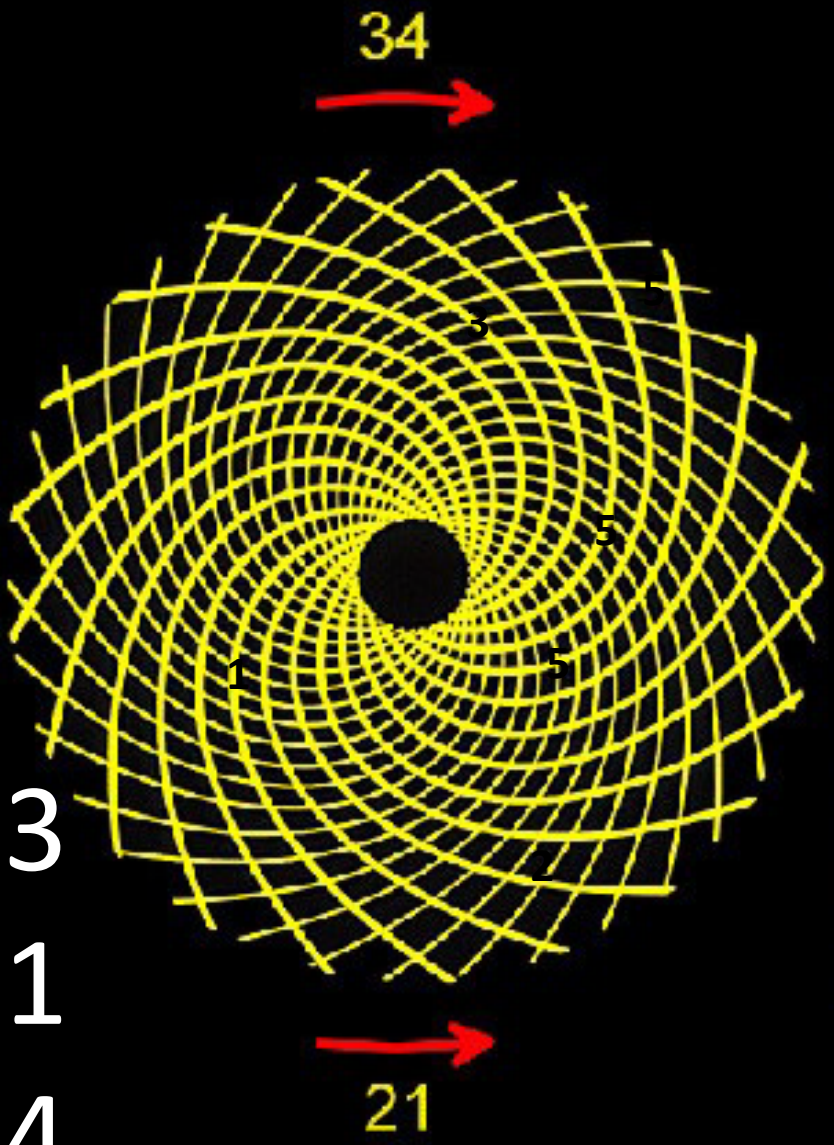
34

Fibonacci Series in Plants



Fractal Field Science

1
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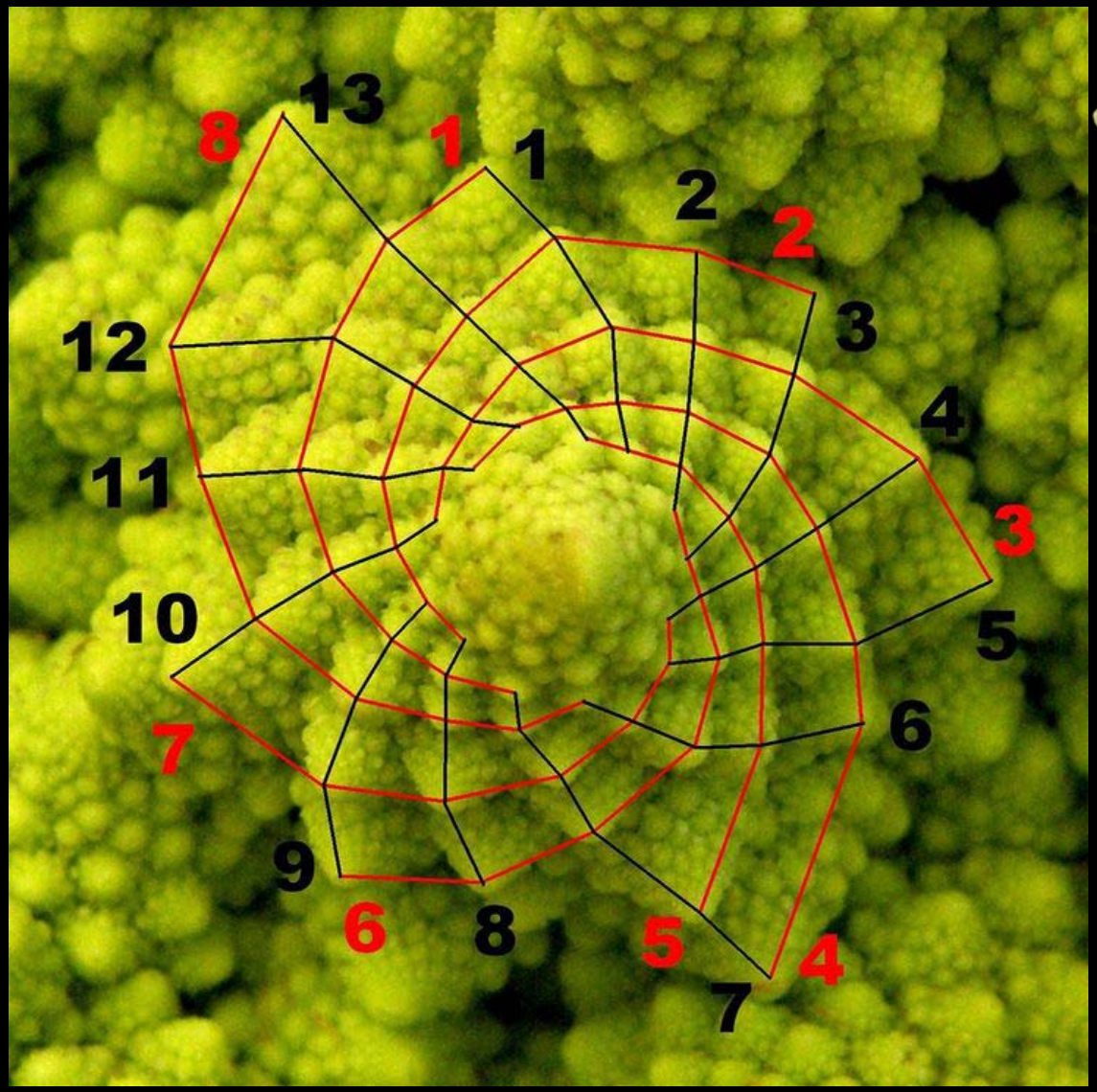
13
21
34

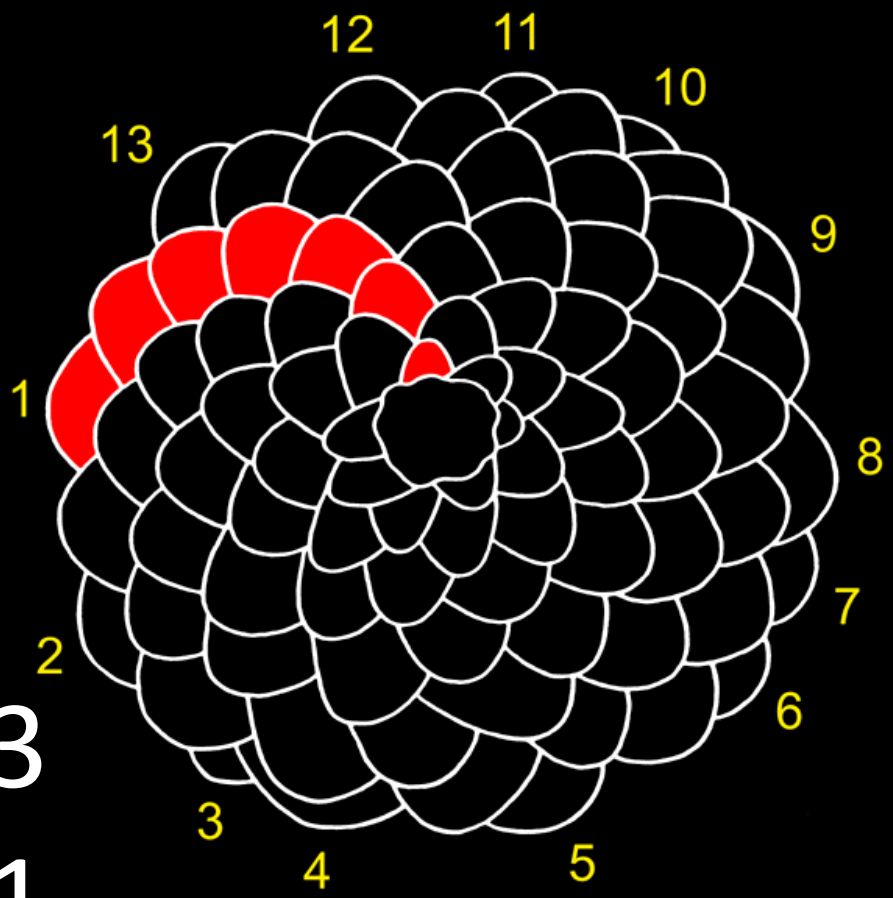
Fibonacci Series in Plants

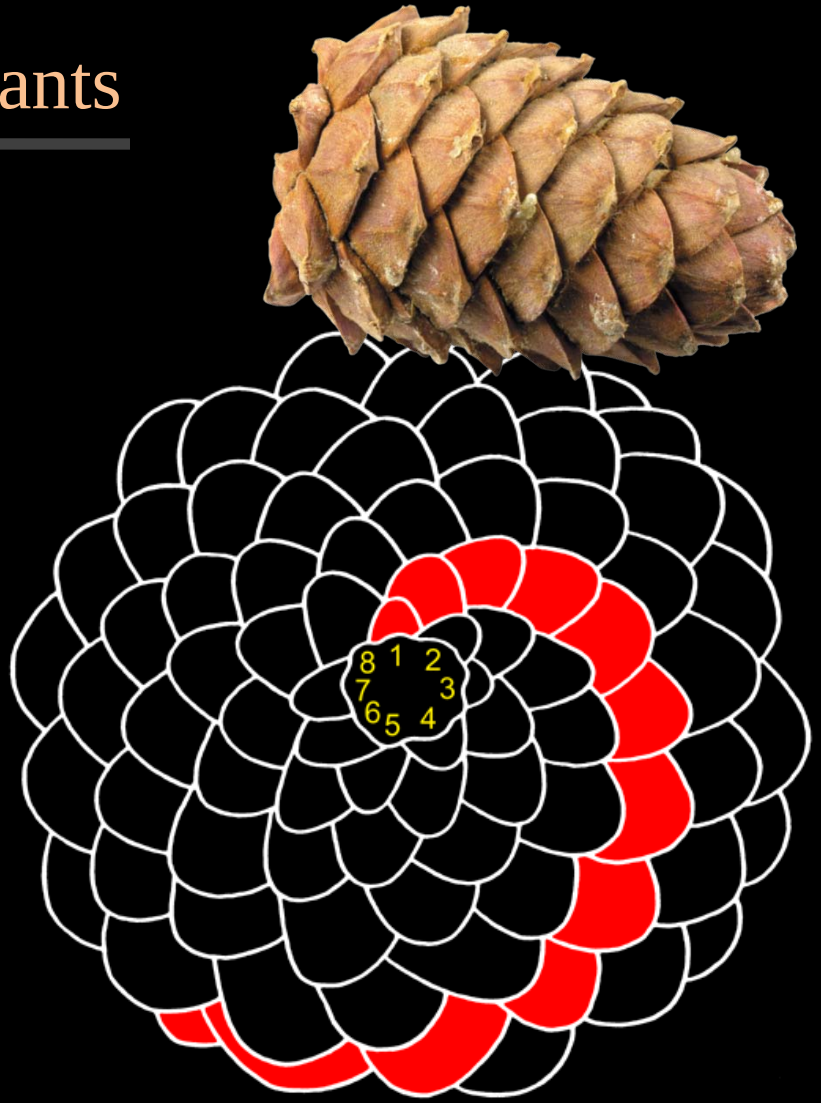


Fractal Field Science

1
1
2
3
5
8
13
21
34

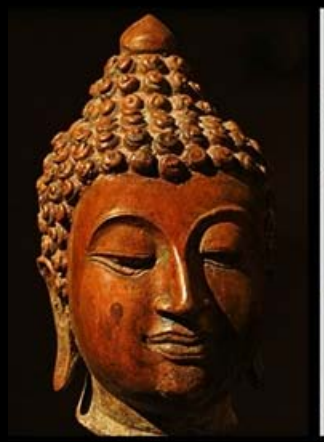
Fibonacci Series in Plants





Fractal Field Science

Charge Distribution Efficiency



Golden Ratio at all Scales from Micro to Macro

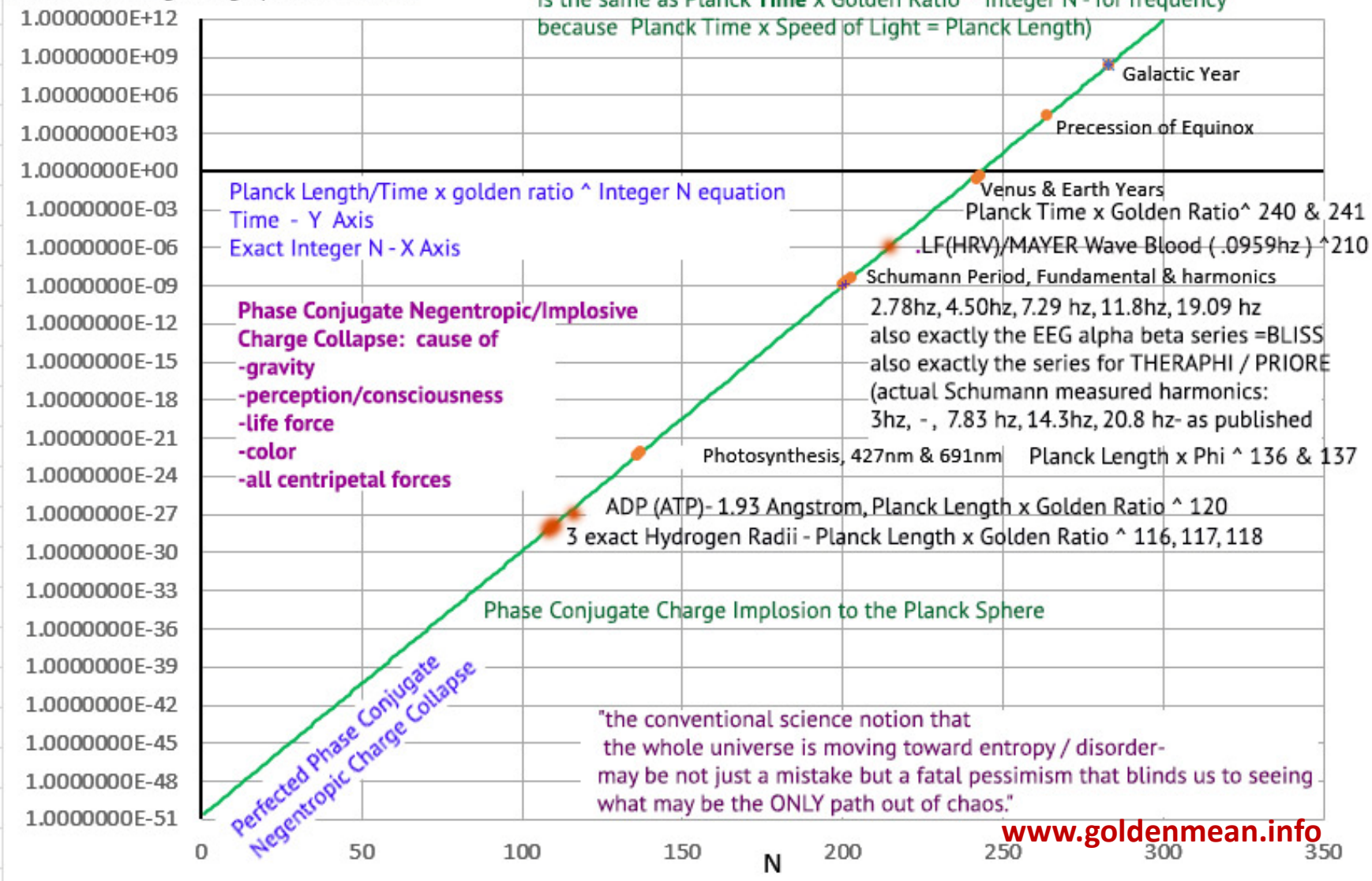
Dan Winter's original equation for ORIGIN OF NEGENTROPY
PHASE CONJUGATE NEGENTROPIC /IMPLOSIVE CHARGE COLLAPSE
Planck length(or time) x Golden Ratio ^ Integer N

many thanks to Mark Rohrbaugh for graphical assitance

T_P vs. N
log Y-axis

$$T_P = PlanckTime \times \phi^N$$

(note for EM radiation: Planck **Length** x Golden Ratio ^ Integer N - for wavelength is the same as Planck **Time** x Golden Ratio ^ Integer N - for frequency because Planck Time x Speed of Light = Planck Length)

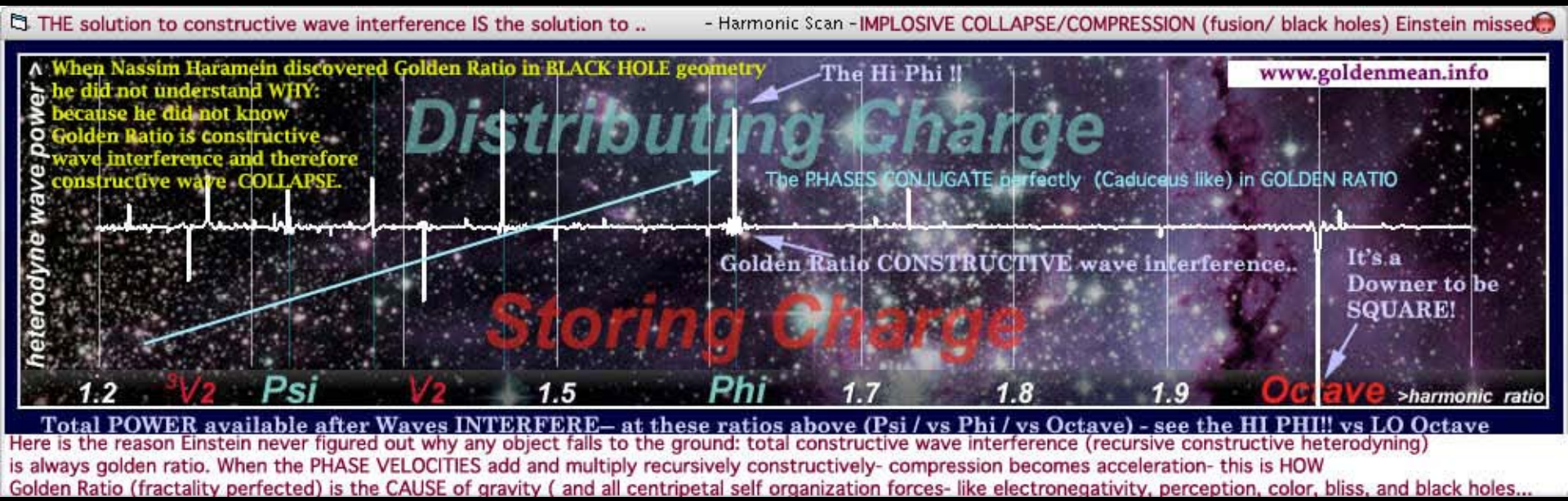


www.goldenmean.info

The laws of nature are but the mathematical thoughts of God.

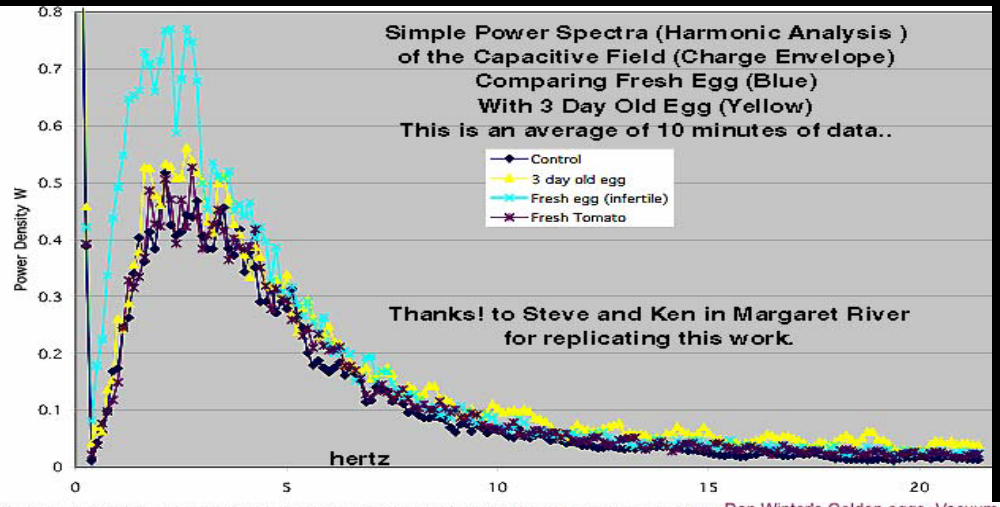
-Euclid

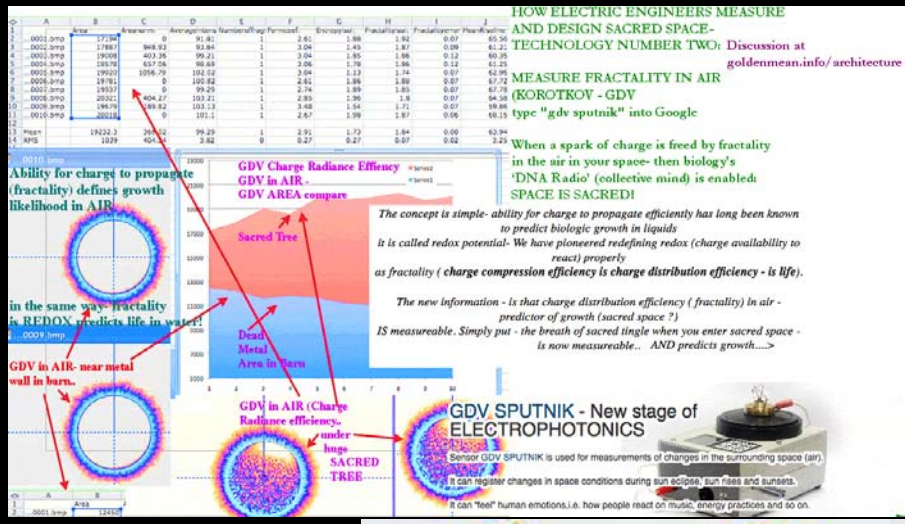
Distribution of Charge
vs
Isolation of Charge

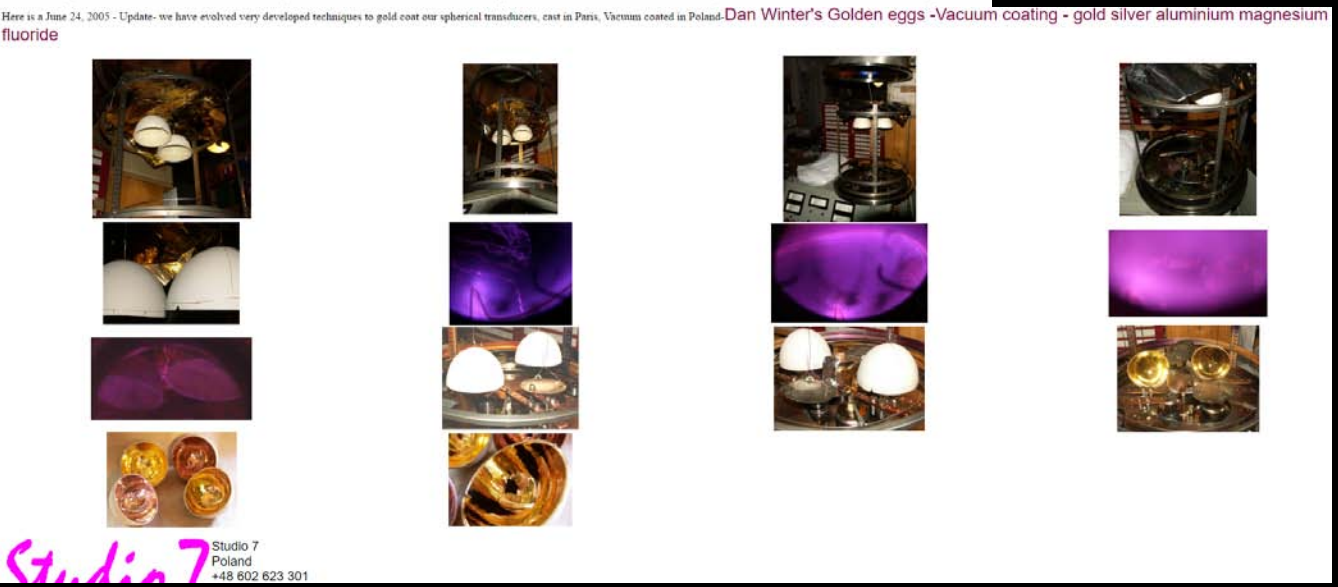


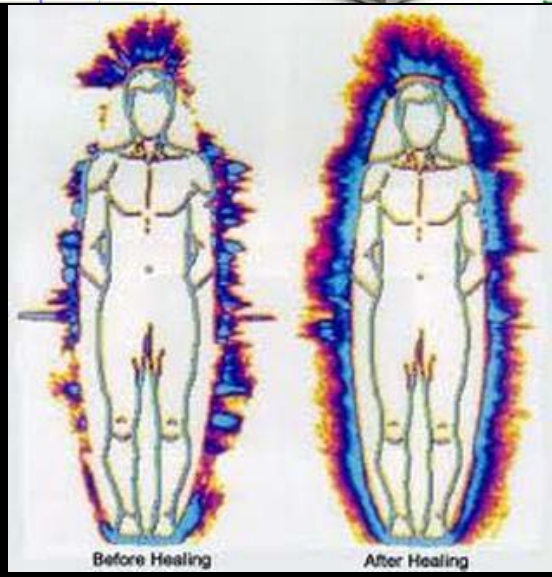
1.618 (Phi - Φ): max constructive, bioactive, distributing charge
Multiples of 2 (octave): max destructive, isolating charge

Measuring the Life Force, Charge Capacitence









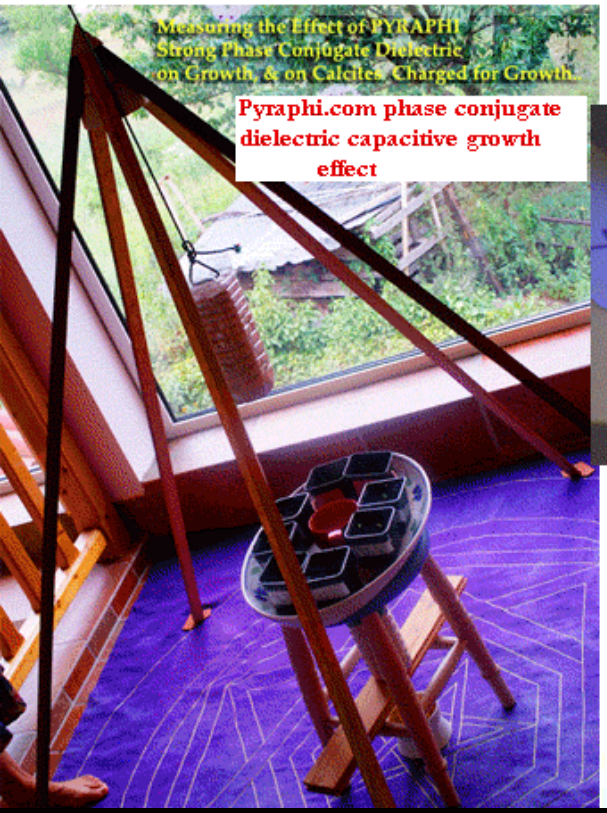
GDV Sputnik, Dr. Korotkov

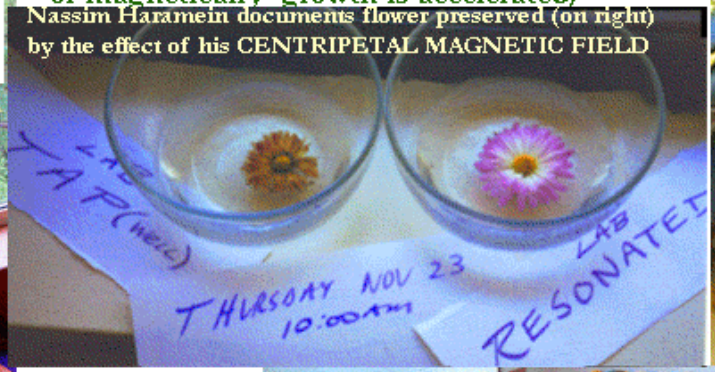
Dan Winter and team, 2003

Fractal Field Science

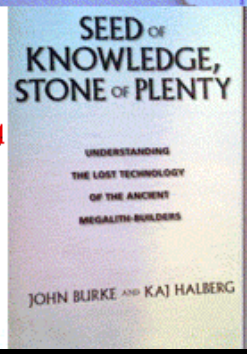
Measuring the Life Force, Charge Capacitence

Measuring SACRED SPACE: Technology Number THREE: Measure Seed Germination/ GROWTH EFFECT. If the field is CENTRIPETAL (optically, dielectrically, or magnetically- growth is accelerated)





Measuring see growth effect caused by Stone Circles >



www.goldenmean.info

Fractal Field Science

Fractality in Materials

Living Structure (Sacred Temple): Breathes Charge
Biologic Architecture: Choice of Material

Symmetry
Of Charge Compression/
Harmonic Inclusiveness

- The work of biology is to get molecules arranged into a fractal- this accomplishes perfected (non-destructive) distribution of charge - called LIFE. Thus relative fractality (self-similarity) in the charge field allows us to define which building materials can fabricate a structure which causes - life, seed germination, bliss. (Measuring success in Architecture)

Most Fractal
(Charge Field
Serves ALL Life)

↑

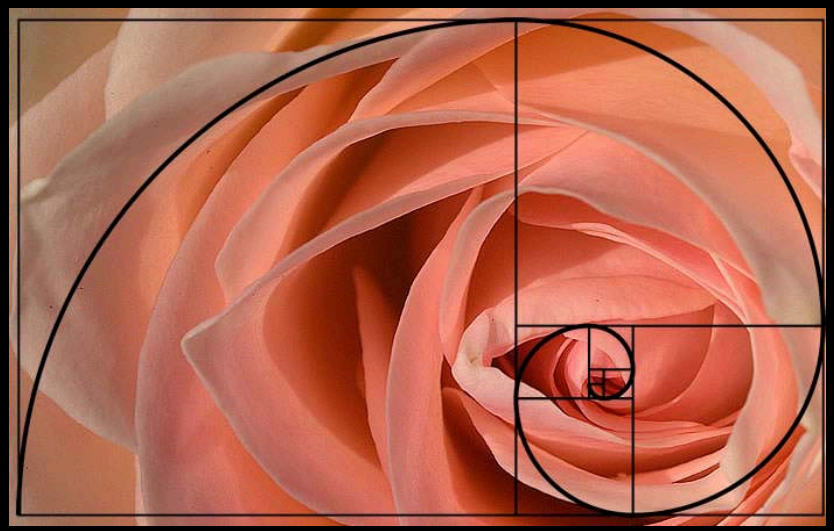
Shape of
Charge
Radiance
(Capacitive
Field / 'Spirit')

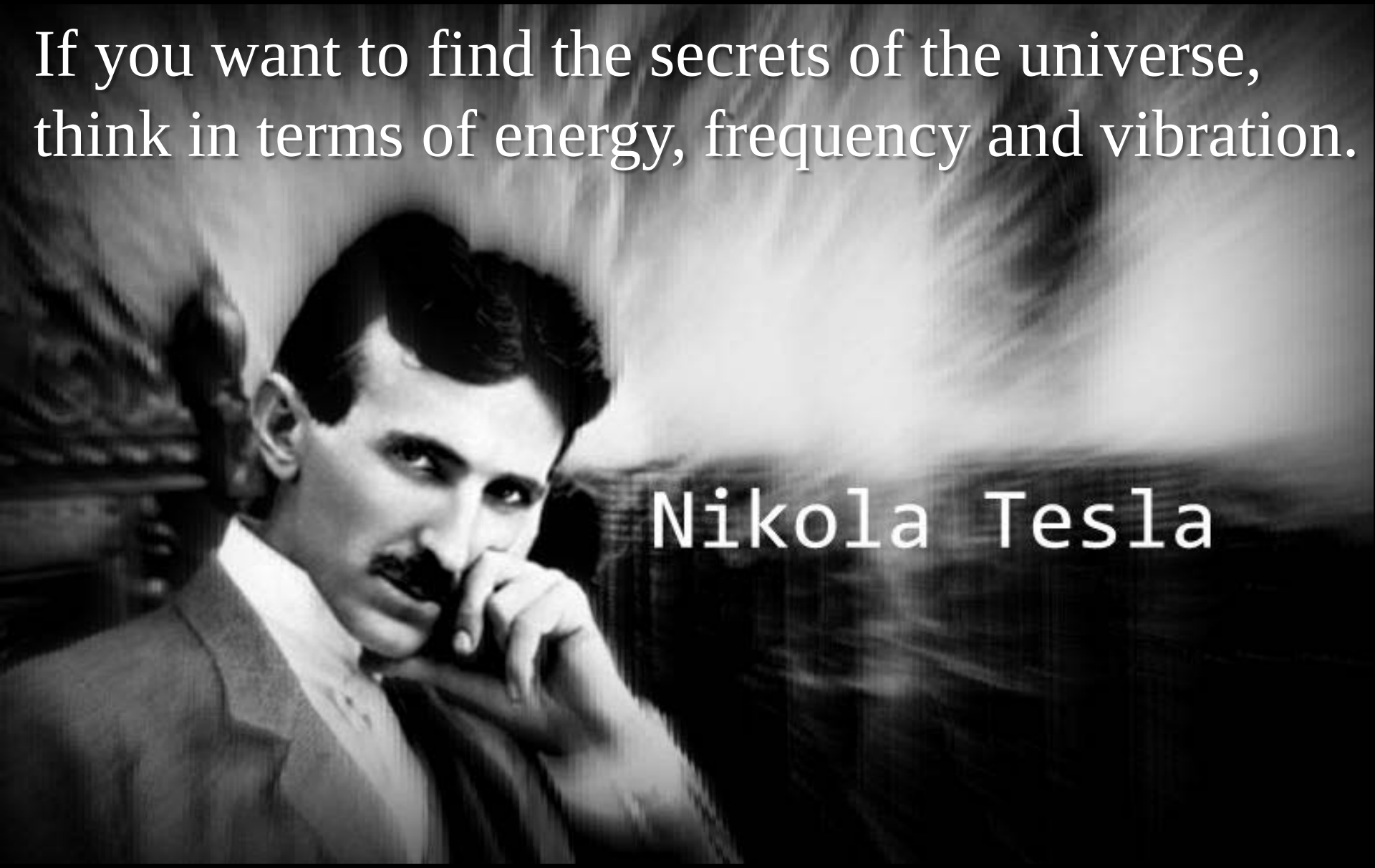
↓

Least Fractal
(Poisonous to ALL Life)

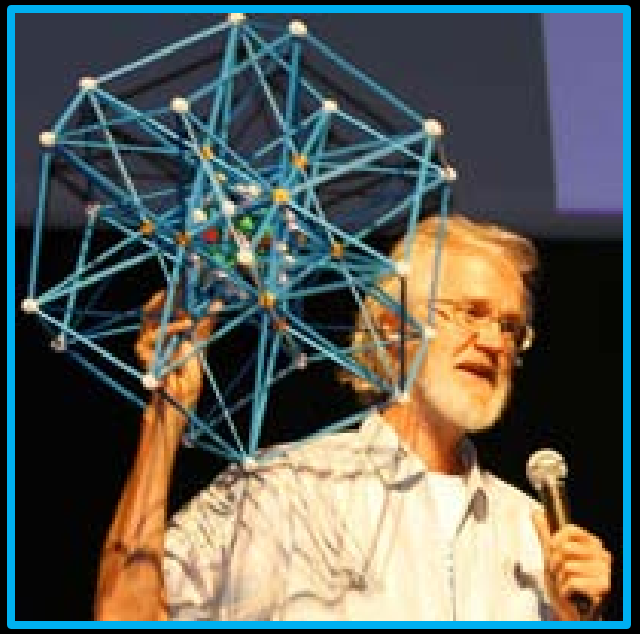
Metals	***Woods***	***Stone..etc.***	***Fabric***
Gold Palladium Platinum Silver	Close Grained Hi Mineral Content Hardwood	***Granite*** ***Limestone/Calc*** ***Paramagnetic Stone***	**Hemp** **Silk** **Cotton** **Wool**
Copper		***Dimagnetic Stone*** ***Sandstone***	
Iron	Coarse Grained Lo Mineral Content Softwood	***Glass***	
Tin			**Polyester**
Steel		***Plastic***	
Aluminum		***Aluminum***	

A fractal field based on golden ratio: breathes charge, becomes a bioactive field.



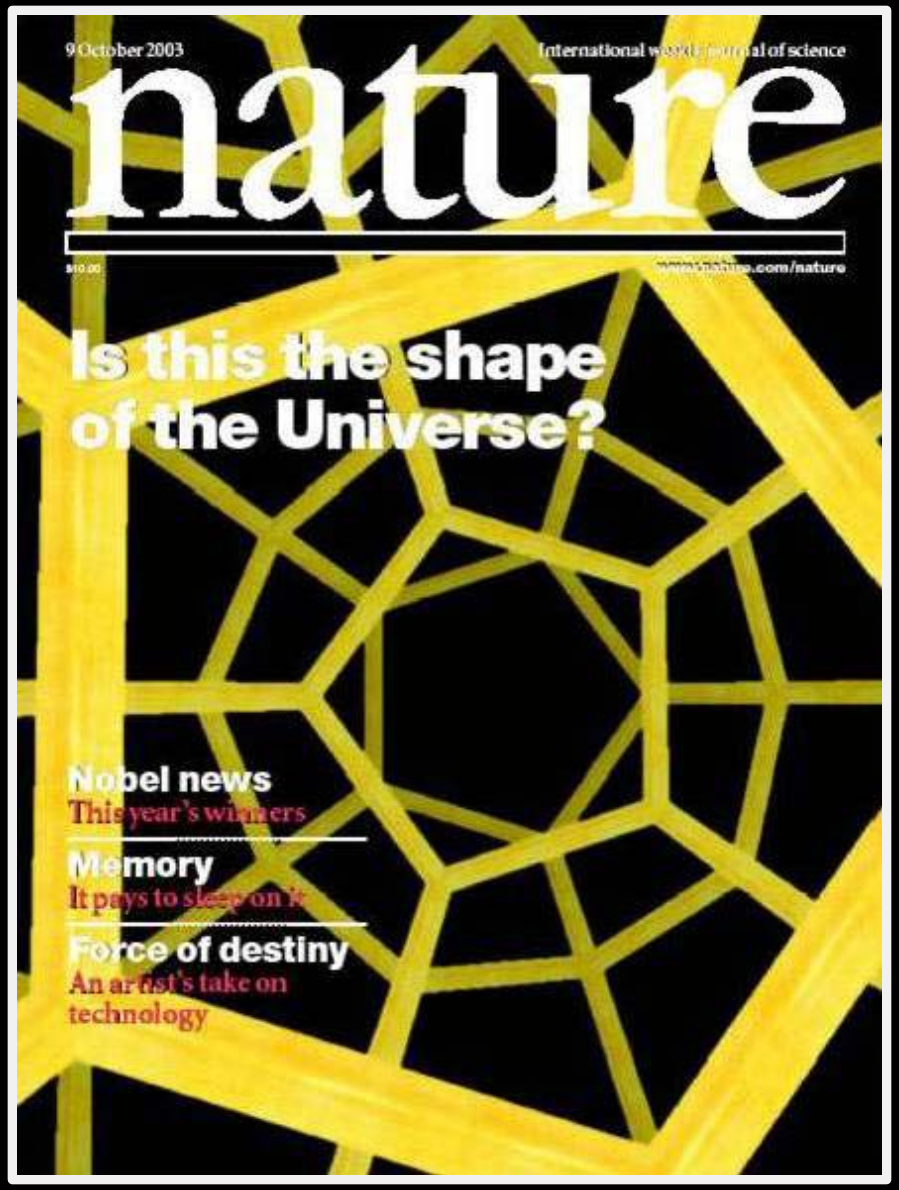

If you want to find the secrets of the universe,
think in terms of energy, frequency and vibration.
Nikola Tesla

Perfect compression creates perfect charge distribution



Dan Winter

Understanding the Cosmos



Astrophysics

Dodecahedral space topology as an explanation for weak wide-angle temperature correlations in the cosmic microwave background

J.-P. Luminet, J. Weeks, A. Riazuelo, R. Lehoucq, J.-P. Uzan

(Submitted on 9 Oct 2003)

Cosmology's standard model posits an infinite flat universe forever expanding under the pressure of dark energy. First-year data from the Wilkinson Microwave Anisotropy Probe (WMAP) confirm this model to spectacular precision on all but the largest scales (Bennett {\it et al.}, 2003 ; Spergel {\it et al.}, 2003). Temperature correlations across the microwave sky match expectations on scales narrower than 60°, yet vanish on scales wider than 60°. Researchers are now seeking an explanation of the missing wide-angle correlations (Contaldi {\it et al.}, 2003 ; Cline {\it et al.}, 2003). One natural approach questions the underlying geometry of space, namely its curvature (Efstathiou, 2003) and its topology (Tegmark {\it et al.}, 2003). In an infinite flat space, waves from the big bang would fill the universe on all length scales. The observed lack of temperature correlations on scales beyond 60° means the broadest waves are missing, perhaps because space itself is not big enough to support them. Here we present a simple geometrical model of a finite, positively curved space -- the Poincar\'e dodecahedral space -- which accounts for WMAP's observations with no fine-tuning required. Circle searching (Cornish, Spergel and Starkman, 1998) may confirm the model's topological predictions, while upcoming Planck Surveyor data may confirm its predicted density of $\Omega_0 \simeq 1.013 > 1$. If confirmed, the model will answer the ancient question of whether space is finite or infinite, while retaining the standard Friedmann-Lema\^\i{}tre foundation for local physics.

Comments:	10 pages, 4 figures. This is a slightly longer version of the paper published in Nature 425, p. 593, 2003
Subjects:	**Astrophysics (astro-ph)**; General Relativity and Quantum Cosmology (gr-qc)
Journal reference:	Nature 425 (2003) 593
DOI:	10.1038/nature01944
Cite as:	**arXiv:astro-ph/0310253**
	(or **arXiv:astro-ph/0310253v1** for this version)

Submission history

From: Luminet [view email]
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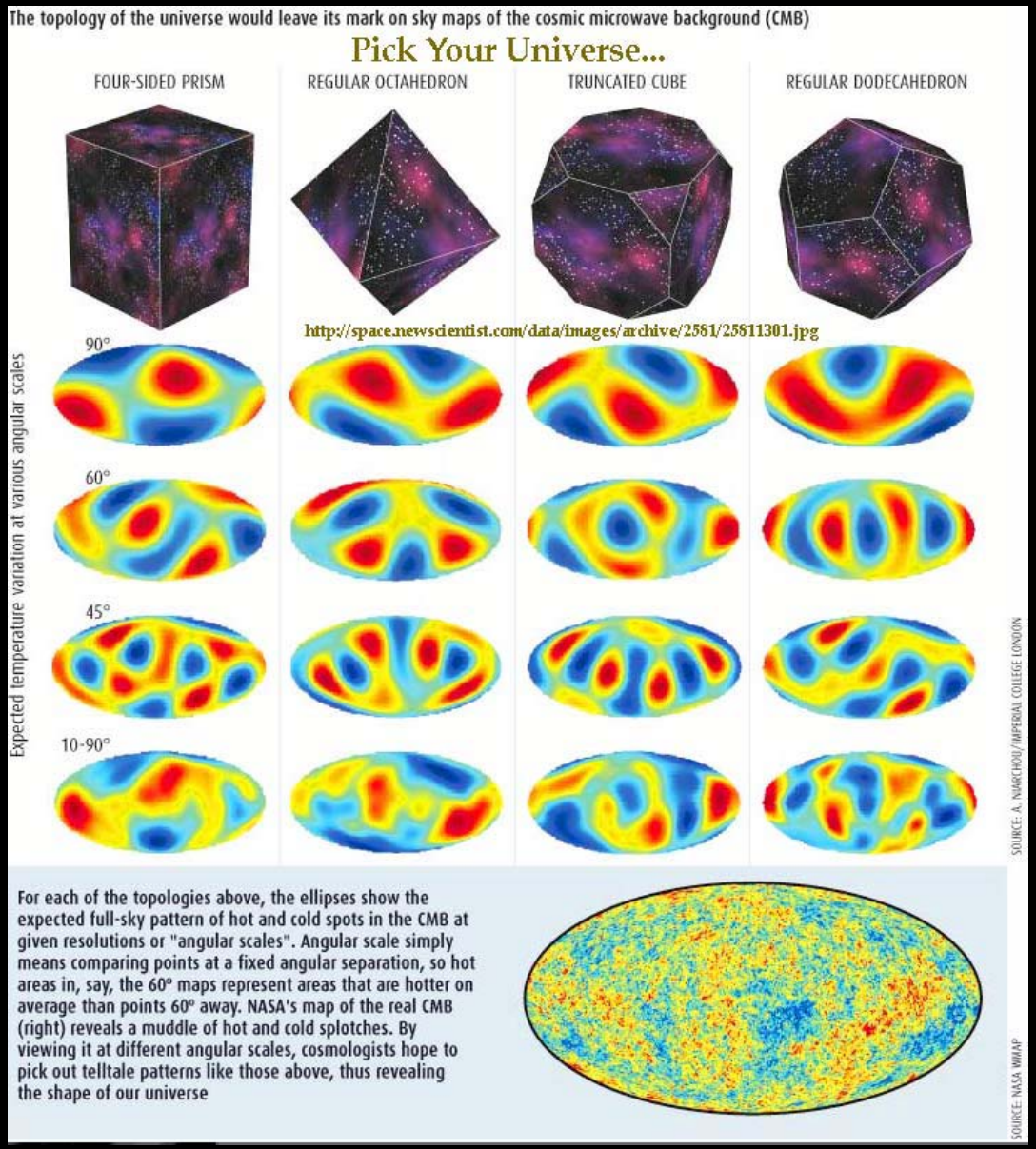
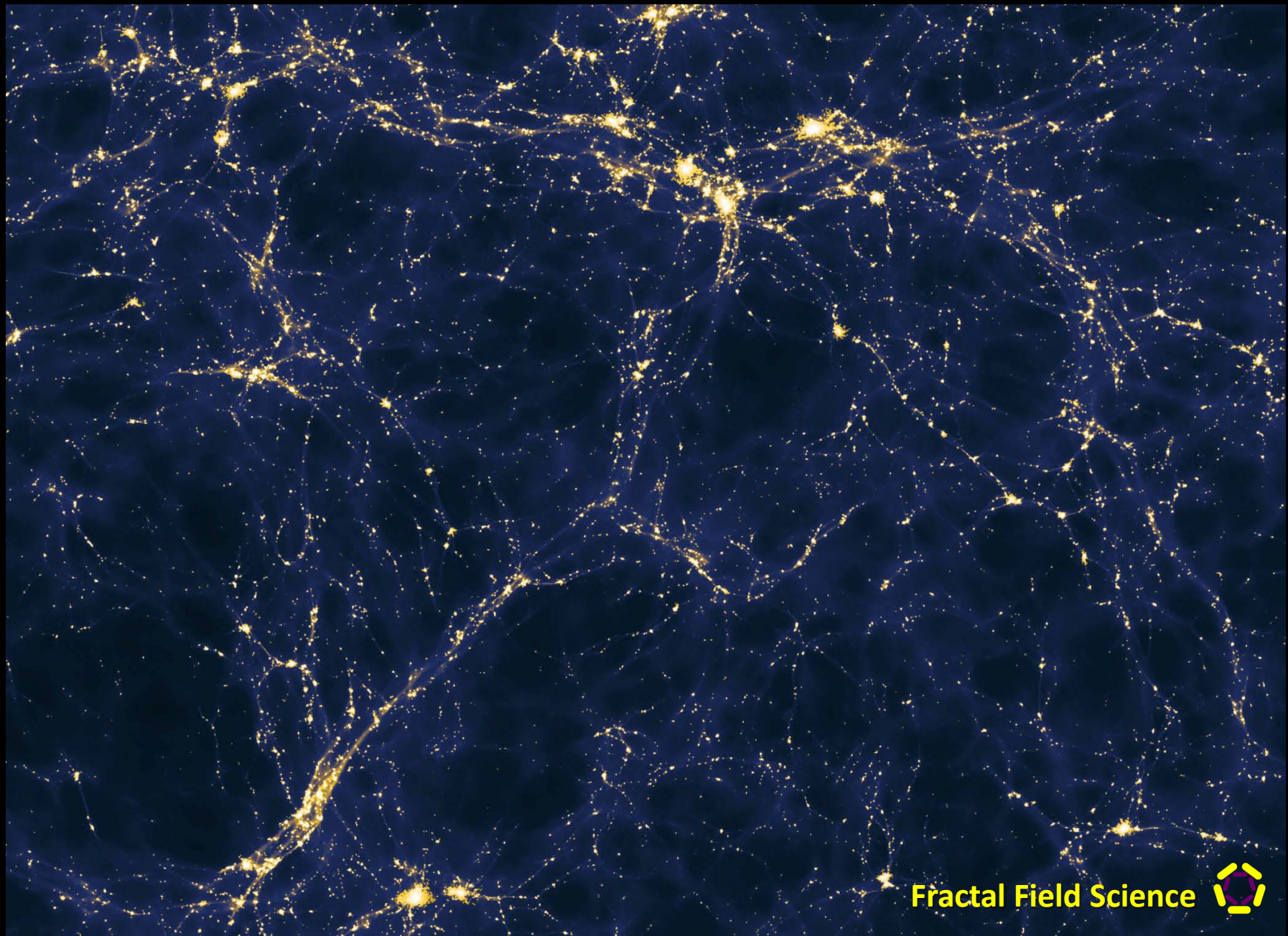
Dodecahedron and the Universe



Shape of the Universe



Yin & Yang

Fractal Field Science

nature International weekly journal of science

NATURE | NEWS

Dark-matter hunt fails to find the elusive particles

Physicists begin to embrace alternative explanations for the missing material.

Elizabeth Gibney

08 November 2017

XENON Collab.

Scientists working on the XENON1T experiment are searching for signs of dark matter.

Physicists are growing ever more frustrated in their hunt for dark matter — the massive but hard-to-detect substance that is thought to comprise 85% of the material Universe. Teams working with the world's most sensitive dark-matter detectors report that they have failed to find the particles, and that the ongoing drought has challenged theorists' prevailing views.

The latest results from an experiment called XENON1T at the Gran Sasso National Laboratory in Italy, published on 30 October[1], continue a dry spell stretching back 30 years in the quest to nab dark-matter particles. An attempt by a Chinese team to detect the elusive stuff, the results of which were published on the same day[2], also came up empty-handed. Ongoing attempts by space-based telescopes, as well as at CERN, the European particle-physics laboratory near Geneva, Switzerland, have also not spotted any hints of dark-matter particles.

Shape of the Universe

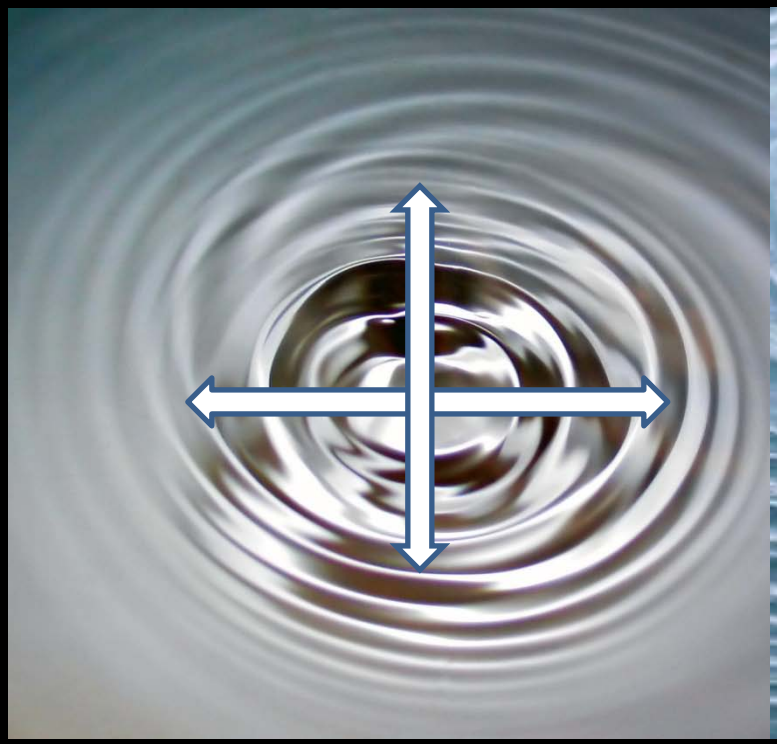
~~Matter – Dark Matter~~

Compression – Rarefaction

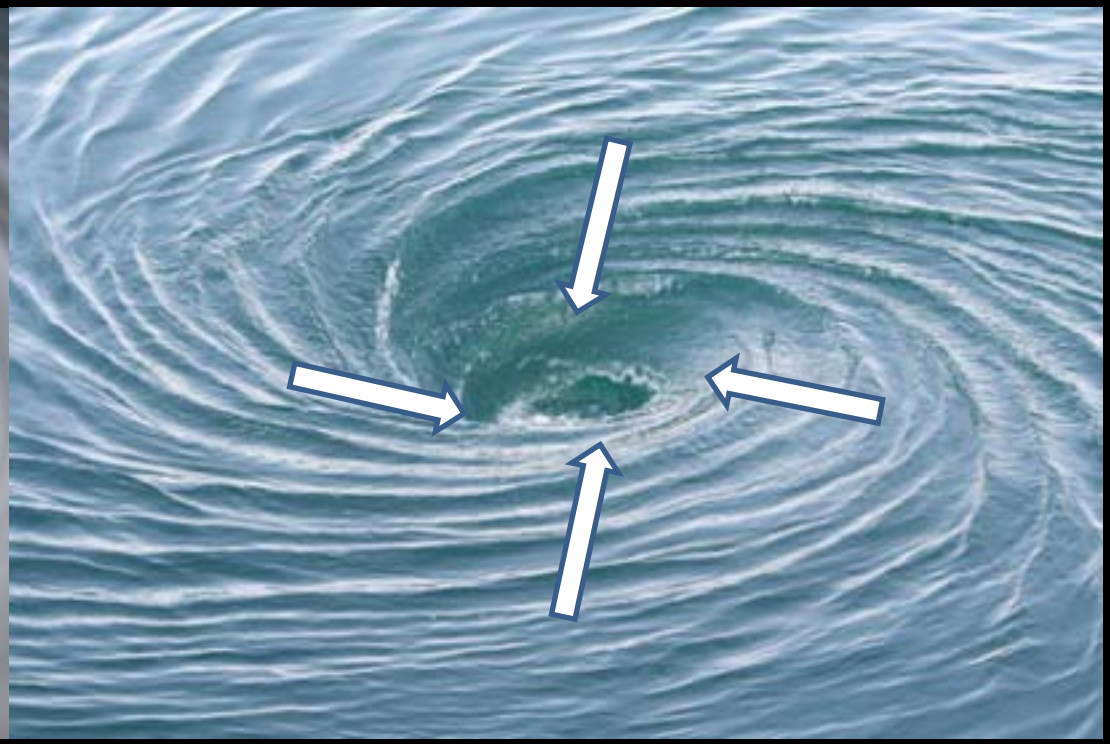
Fractal Field Science

Centrifugal and Centripetal Forces

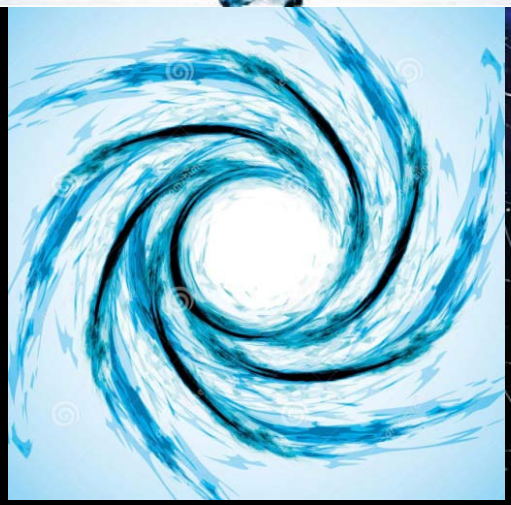
Explosion



Implosion



Centripetal Force – Implosion - Vortex



Phase Conjugate Implosive Collapse