

Fundamental Concepts

Metaphysics, Metamathematics & Meditation:

Where Science, Art, & Mysticism Meet

B.W. Stuck & Marjorie Partch

©AlephTalks,2022

Outline

- Metaphysics and Metamathematics
- Ron Cowen Observations
- Dolores Cannon hypnotic therapy and past life regression
- The human body and the human soul
 - The collective unconsciousness-the Akashic field/quantum space foam
 - The conscious mind
 - The unconscious mind
- The purpose of life: to achieve higher and higher levels of love and compassion
- Sacred geometry
 - The need for more dimensions than just spacetime
 - The 26 real dimensional universe; eight subspaces of three spatial dimensions which are paired as real and imaginary subspaces, four complex subspaces
 - Pythagoras and Plato: two- and three-dimensional sacred geometries, and more
- Meditation
 - The mind is an illusion; by meditating awareness shows there is no duality, only an incredibly rich tapestry of evolving reality
 - Meditation and prayer is necessary every day to link to true awareness and enlightenment

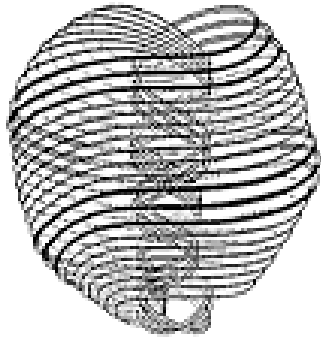


Metaphysics and Metamathematics

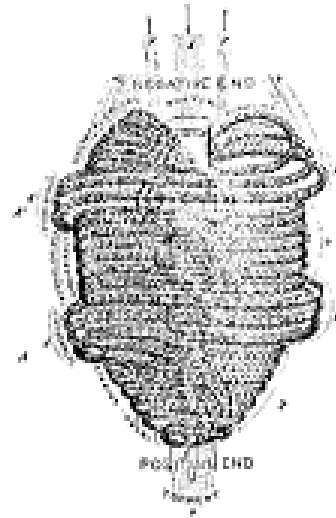


- Metaphysics is the branch of philosophy that studies the fundamental nature of reality, the first principles of being, identity and change, space and time, causality, necessity, and possibility.
- Metaphysics includes questions about the nature of consciousness and the relationship between mind and matter, between substance and attribute, and between potentiality and actuality.
- Metamathematics deals with structures of axioms, logics and computability
- There is a single very general abstract structure- [the ruliad](#)—and our physical laws arise in an inexorable way from the particular samples we take of this structure. The ruliad is the entangled limit of all possible computations—or in effect a representation of all possible formal processes.
- The ruliad might underlie not only physics but also mathematics—and that everything in mathematics, like everything in physics, might just be the result of sampling the ruliad.
- Metamathematics is illustrated by the Langlands program, linking number theory (real, complex, quaternion, octonion) to algebra (classic and sporadic Lie groups and algebras), and automorphic functions (harmonic analysis and the music of the spheres)

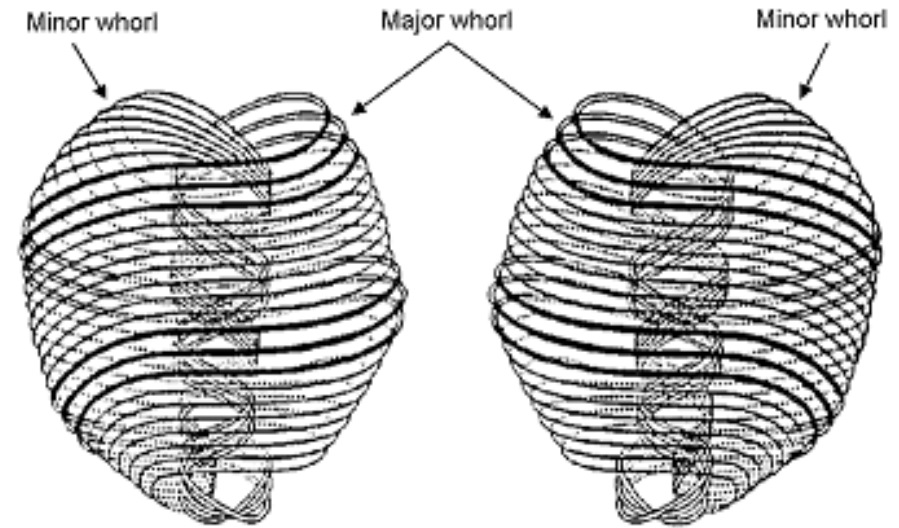
Earlier Clairvoyant Observers of Microcosm Leadbeater/Besant, Babbitt



Besant's and Leadbeater's
'ultimate physical atom' (UPA)



Babbitt's 'atom'

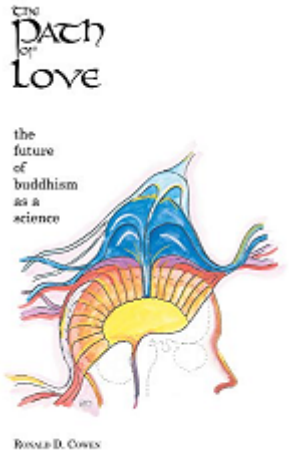


Positive

Negative

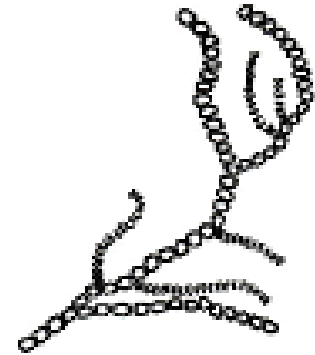
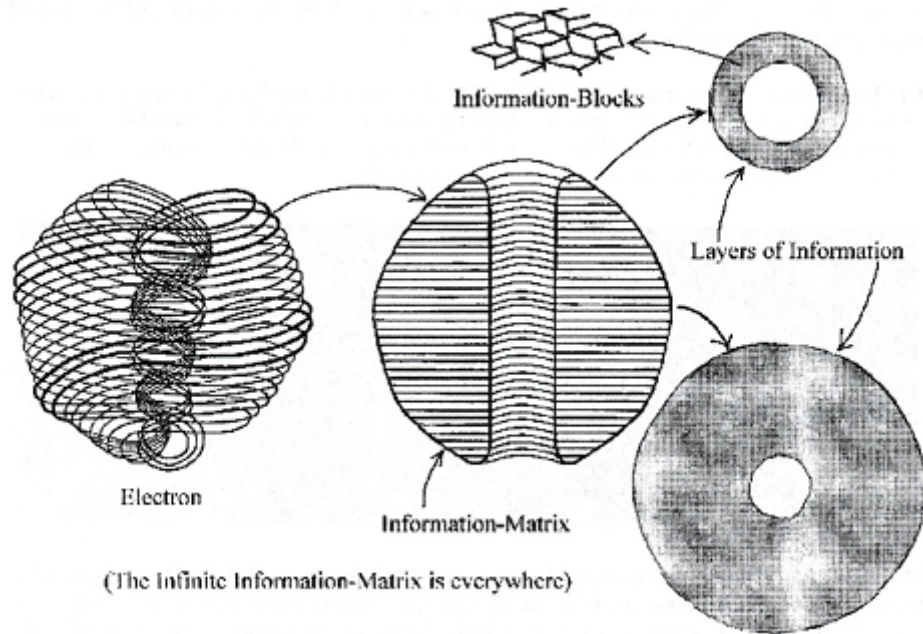
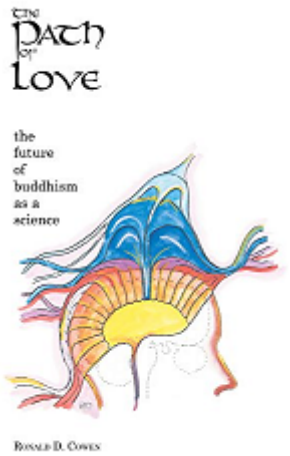
Ron Cowen Observations

Data Driven Analysis



- Ronanld Cowen, 1941-2019: high school physics teacher in Toronto, Ontario, Canada Buddhist monk
- Clairvoyance: Micro-psi and macro-psi observations in deep meditation
- The sacred geometric arena of the universe is 26 real dimensions
- Matter is made up of charged subquarks covered in ten vibrating heterotic strings; the electron torus is covered with ten heterotic strings
- Dark matter is made up of chargeless subquarks covered in five vibrating heterotic strings
- Information creates the collective unconscious, and through the Principle of Least Action controls all fields and forces, and coats the quantum space compartment walls, subquarks, photons, electrons; constantly scanning to detect and respond to changes, fulfilling the pilot wave theory of quantum mechanics of deBroglie and Bohm—the electron is covered with information blocks that scan and respond to changes, and this is the basis of the double slit experiment
- Big bounce not a big bang, but with inflation of quantum space compartments; creation of matter and dark matter Higgs boson

Ron Cowen Observations Data Driven Analysis



Dolores Cannon Observations

Data Driven Analysis



- Dolores Cannon, 1931-2014: Arkansas based hypnotherapist
- Somnambulistic hypnotherapist concentrating on past life regressions
- Many of her early clients described scenes from past lives where they had lived in past decades, past centuries and even past millennia in a variety of social settings in different locations all over the Earth.
- She would then spend weeks researching the characteristics of life in the locations and time periods her clients had described living in to verify the authenticity of the results she was recording.
- Dolores would ensure the food they ate, the clothing they wore, the language they spoke, the money they used, the job(s) they described, the social norms they abided by, the entertainment they enjoyed/participated in, the religious philosophies they believed in and the geographic scenery they described were all typical of what life would have been like in “that” particular time. It was through this vigorous verification process that Dolores ensured the authenticity of her results.
- Thousands of clients over fifty years gave her body of work statistical validation

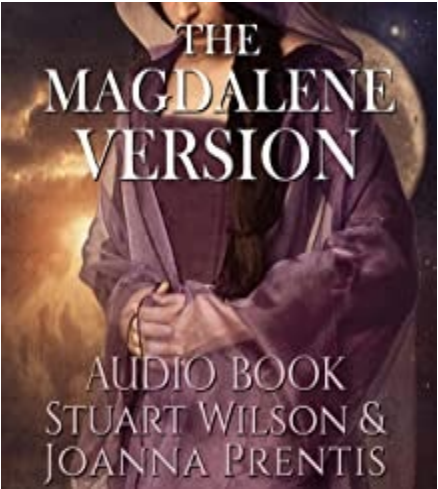
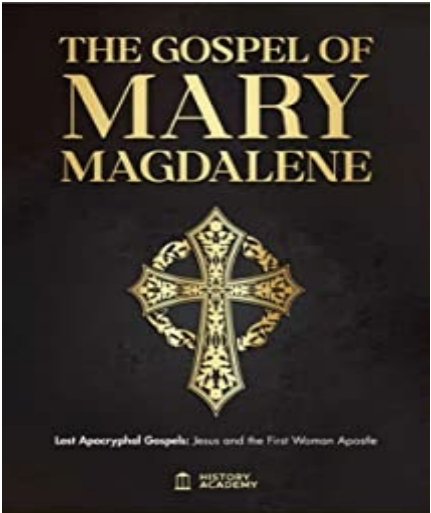
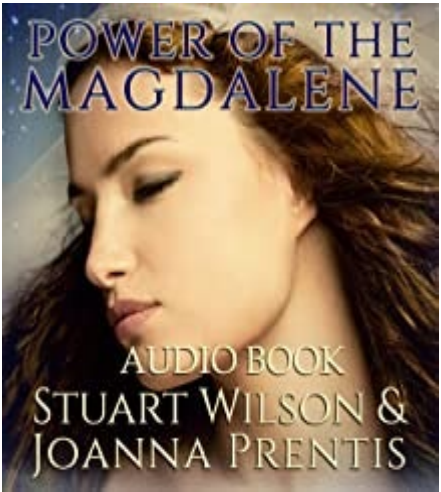
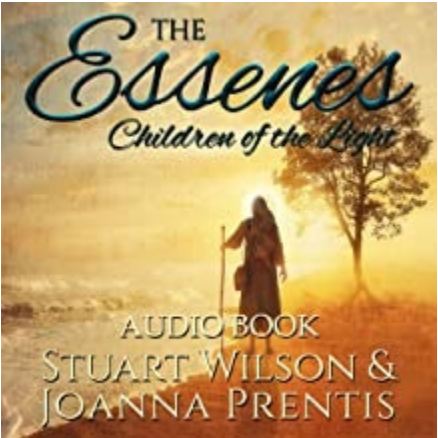
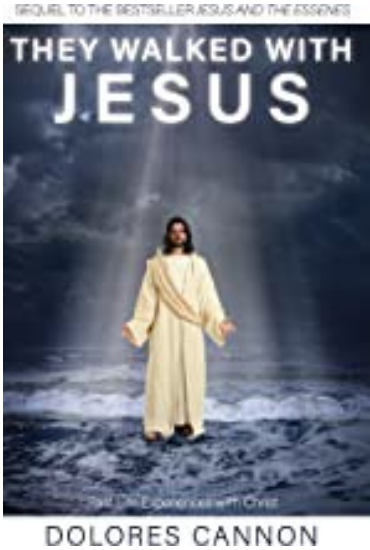
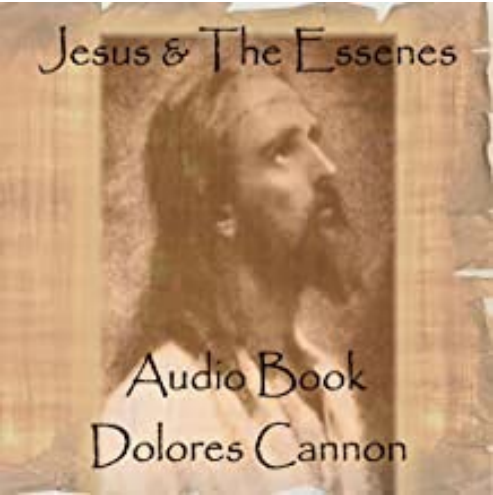
Quantum Healing Hypnosis Technique



- The subconscious mind can be reached through somnambulistic hypnosis, which reveals the linkage between the unconscious and a soul that is linked to the body
- Dolores Cannon's method of hypnosis, **Quantum Healing Hypnosis TechniqueSM (QHHT[®])**, involves inducing an individual into the Somnambulistic state of trance through visualization.
- This state under ordinary circumstances is experienced only twice daily:
 - the moment just before you become consciously awake and
 - the moment just before you fall asleep.
- Historically, hypnotists have avoided conducting research with subjects in this state because of the often strange and inexplicable results that are recorded. Dolores Cannon approached this in a scientifically rigorous manner and wrote over 16 books on a small part of her studies.

Jesus/Jeshua benJoseph and the Essenes

The Eternal Feminine: Mary Magdalene



Learning from the Unconscious or Soul



- Ronald Cowen achieves through deep meditation awareness and enlightenment, as well as special traits (micro-psi and macro-psi in Book III.27 et al of Yoga Sutras of Patanjali) by using the soul and the personal subconscious or unconscious or soul
- Dolores Cannon carries out observations by quieting the conscious mind and linking to the personal subconscious or unconscious or soul that has incarnated in past lives to understand what is causing maladies in this life
- Both agree that the soul incarnates to learn and to grow in this lifetime in a way that could not be achieved by not incarnating; once you incarnate, you have free will and must find your own way to learn lessons



Human Mental Metaphysical Traits

- Ron Cowen observed that the walls of each quantum space compartment as well as particles such as subquarks and electrons and photons are covered with information (algorithms and data) in stacked blocks that are accessed by information waves
- Information blocks are constantly scanning and responding to changes in the environment around it according to a Lagrangian Principle of Least Action
- C.G. Jung calls this the collective unconscious: it permeates the entire universe
- Quantum mechanics calls this linkage the universal wave function following the Many Worlds Interpretation but with the de Broglie Bohm pilot wave (scanning by information blocks)



Information Blocks



Unpacked Information Block



Simple Information Wave on Information Block



Complex Information Block Wave

Human Mental Metaphysical Traits



- Each human being has a conscious mind and an unconscious mind that is linked to the collective unconscious (which is embodied in the universal wave function); the heart is key
- The true reality is embodied in the collective unconsciousness; the conscious mind does not see this true reality, unless it is able to achieve awareness and the nonduality of the conscious and unconscious mind

Human Mental Metaphysical Traits



- The conscious mind is like a person that is looking out through the eyes, gathering information through touch, taste, hearing, seeing, and processing information continually
- The unconscious mind is the soul that has linked to the human being at birth, and links to the collective unconsciousness
- This unconscious mind is not limited to the autonomous systems that manage automatic functions such as breathing of air in and out of lungs, pumping blood to and from the heart

Reincarnation Teaches Lessons



- The soul is immortal, and incarnates into different forms (inanimate such as rocks, animate such as trees, flowers, ants, fish, birds, elephants, and then apes and humans) for a lifetime to teach tolerance to all forms of life, races, creeds
- Once the body dies, the soul reviews its past life to see what lessons have been learned or not learned, in the bardo (Buddhist term), with other spirits in attendance to guide the review
- The soul then reincarnates into a new entity so that the soul can achieve higher and higher levels of enlightenment or awareness over time

Human Mental Metaphysical Traits



- When the soul incarnates, it has a veil of forgetfulness (the Maya) drawn over why it is here in this lifetime to incarnate based on lessons from past lives, so in this life the human can exercise free will and learn and hopefully evolve
- Nothing is to be feared from death, the soul retains knowledge of each past life and the lessons thereof
- The soul is tied to the purpose of life

Many Worlds Quantum Mechanical Interpretation of Reality



- The many-worlds interpretation (MWI) is an interpretation of quantum mechanics that asserts that the universal wavefunction is objectively real, and that there is no wave function collapse.
- This implies that all possible outcomes of quantum measurements are physically realized in some "world" or universe.
- Many-worlds is also called the relative state formulation or the Everett interpretation, after physicist Hugh Everett, who first proposed it in 1957.
- Bryce DeWitt popularized the formulation and named it many-worlds in the 1970s.
- This offers a mechanism for free will that each soul has
- The ruliad of Stephen Wolfram is a concrete example of the many worlds interpretation of reality: information calculates all possible outcomes according to algorithms and picks one that minimizes action

Time Is Different from Spatial Dimensions



- Time is different from spatial dimensions: although spacetime is described by four coordinates (x,y,z,ict) note that time is multiplied by the square root of minus one.
- Dolores Cannon interacted through past life hypnotic regression with a student of Nostradamus; Nostradamus realized this, and directly interacted AT THE SAME TIME with Dolores, and changed his prediction of Pope JohnPaul II being assassinated to simply being shot, which led to the Catholic Church imploding from within
- In past life hypnotic regressions it became clear with tens of subjects that the South had won the US Civil War, but evidently a third party changed this so starting in late 1862 the South started to lose battle after battle

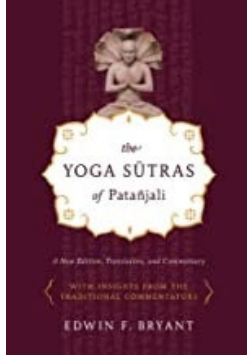
What Is the Purpose of Human Life?



- Through somnambulistic hypnosis, it has become apparent what the purpose of human life is:
 - Humans live to learn how to achieve enlightenment or awareness or unity with the collective consciousness underlying the universe: different levels of love for themselves and their neighbor and for compassion for others
- Each life tries to achieve these goals, and it is a journey that the soul cannot achieve without joining with an incarnate body; at birth, a veil drops over the subconscious hiding this
- Certain teachers such as the Buddha or Jesus of Nazareth or Isaac Luria the Kabbalist achieved this in their lifetime, and their teachings guide others in their footsteps

Meditation

- What the conscious mind sees is akin to a movie: when the subconscious mind links with the soul, the duality of mind and body is lost, and nonduality allows the subconscious to see the true nature of reality on many levels and with incredible clarity
- When the mind is in duality, (with a self), one cannot see that there is natural mind actually there.
- When one has realization of natural mind, the self no longer exists. That's the actual experience.
- **The Yoga Sutras** of Patanjali provide guidance in how to meditate




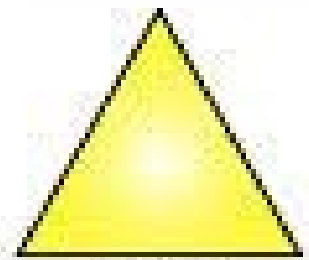
26 REAL DIMENSIONAL SYMPLECTIC ¹ UNIVERSE	
10 Matter Dimensions	10 Dark Matter Dimensions
Space-Time 4 Dimensions (x,y,z,ict ²)	Space-Time 4 Dimensions i * (x,y,z,ict) = (ix,iy,iz,-ict)
Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 3 Holes – Genus 3 Hodge Diamond (9,11,6,7)	Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 4 Holes – Genus 4 Hodge Diamond (17,12,21,12)
Symplectic Calabi-Yau Manifold 6 Synchronizing Compactified Dimensions 8 Holes – Genus 8 Hodge Diamond (8,23,21,17)	

¹ Symplectic = real and imaginary pairs.
² ict = $\sqrt{-1}$ * speed of light * time.

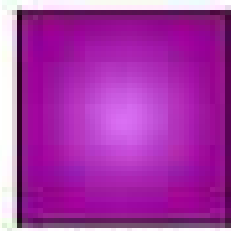
Sacred Geometry: Regular Polygons

TYPES OF POLYGONS






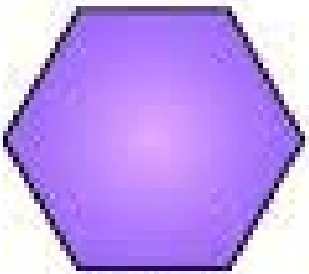
Triangle



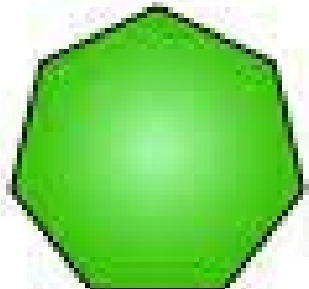
Quadrilateral



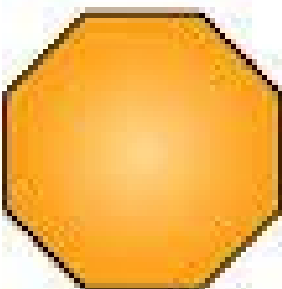
Pentagon



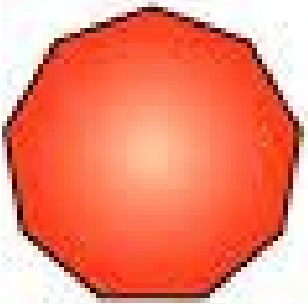
Hexagon



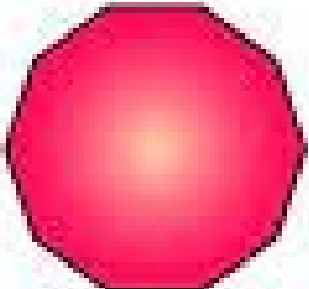
Heptagon



Octagon



Nonagon



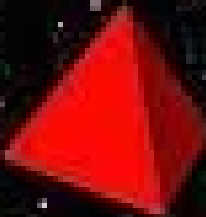

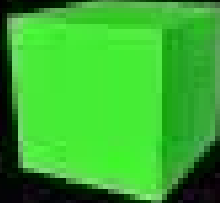
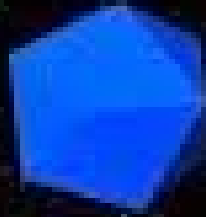


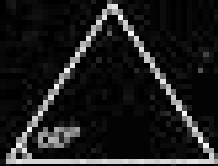

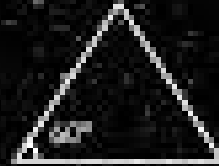

Decagon

26 REAL DIMENSIONAL SYMPLECTIC ¹ UNIVERSE	
10 Matter Dimensions	10 Dark Matter Dimensions
Space-Time 4 Dimensions (x,y,z,ict ²)	Space-Time 4 Dimensions i * (x,y,z,ict) = (ix,iy,iz,-ct)
Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 3 Holes – Genus 3 Hodge Diamond (9,11,6,7)	Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 4 Holes – Genus 4 Hodge Diamond (17,12,21,12)
Symplectic Calabi-Yau Manifold 6 Synchronizing Compactified Dimensions 8 Holes – Genus 8 Hodge Diamond (8,23,21,17)	

¹ Symplectic = real and imaginary pairs.
² ict = $\sqrt{-1}$ * speed of light * time.

Sacred Geometry: Platonic Solids

PLATONIC SOLIDS

TETRAHEDRON FOUR SIDED	OCTAHEDRON EIGHT SIDED	HEXAHEDRON SIX SIDED	ICOSAHEDRON TWENTY SIDED	DODECAHEDRON TWELVE SIDED
				
△ FIRE	⬠ AIR	⊠ EARTH	▽ WATER	⊚ AETHER
4 FACES 4 POINTS 6 EDGES	8 FACES 6 POINTS 12 EDGES	6 FACES 8 POINTS 12 EDGES	20 FACES 12 POINTS 30 EDGES	12 FACES 20 POINTS 30 EDGES
				
180° x 4	180° x 6	360° x 6	180° x 20	360° x 12
720° DEGREES	1440° DEGREES	2160° DEGREES	3600° DEGREES	6480° DEGREES

26 REAL DIMENSIONAL SYMPLECTIC ¹ UNIVERSE	
10 Matter Dimensions	10 Dark Matter Dimensions
Space-Time 4 Dimensions (x,y,z,ict ²)	Space-Time 4 Dimensions i * (x,y,z,ict) = (ix,iy,iz,-ct)
Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 3 Holes – Genus 3 Hodge Diamond (9,11,6,7)	Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 4 Holes – Genus 4 Hodge Diamond (17,12,21,12)
Symplectic Calabi-Yau Manifold 6 Synchronizing Compactified Dimensions 8 Holes – Genus 8 Hodge Diamond (8,23,21,17)	

¹ Symplectic = real and imaginary pairs.
² ict = $\sqrt{-1}$ * speed of light * time.

Music of the Spheres

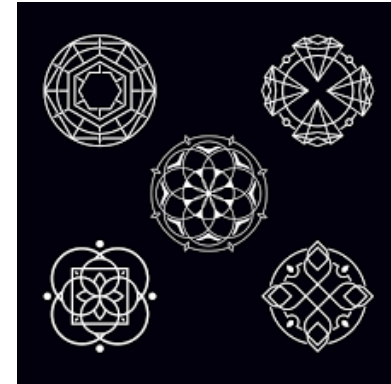
Vibrations, Harmonics, Resonances

- Each figure has a unique vibrational pattern
 - Speed of sound in air is one foot per millisecond
 - Ten feet in extent leads to 100hz unique vibration
 - Speed of light in vacuum is one foot per nanosecond
 - Ten feet in extent leads to 100Mhz unique vibration
- Harmonics: mixture of harmonics
- Resonances: constructive and destructive interference
- Wavelets: waveforms that uniquely match the geometry
- Sparsity: rare patterns that resonate across large distances

Sacred Geometry



- Sacred geometry ascribes symbolic and sacred meanings to certain geometric shapes and certain geometric proportions. It is associated with the belief that a god is the creator of the universal geometer.
- The concept applies to sacred spaces such as temenoi, sacred groves, village greens, pagodas and holy wells, Mandala Gardens and the creation of religious and spiritual art.



26 REAL DIMENSIONAL SYMPLECTIC ¹ UNIVERSE	
10 Matter Dimensions	10 Dark Matter Dimensions
Space-Time 4 Dimensions (x,y,z,ict ²)	Space-Time 4 Dimensions i * (x,y,z,ict) = (ix,iy,iz,-ct)
Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 3 Holes – Genus 3 Hodge Diamond (9,11,6,7)	Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 4 Holes – Genus 4 Hodge Diamond (17,12,21,12)
Symplectic Calabi-Yau Manifold 6 Synchronizing Compactified Dimensions 8 Holes – Genus 8 Hodge Diamond (8,23,21,17)	

¹ Symplectic = real and imaginary pairs.
² ict = $\sqrt{-1}$ * speed of light * time.

The Arenas of Forces and Particles

- Forces
 - Electromagnetism-all 26 real dimensions
 - Strong force-all 26 real dimensions (opposites attract->opposites repel)
 - Weak force-all 26 real dimensions (create isotopes of elements)
 - Gravity-all 26 real dimensions
- Particles
 - Matter (electrons, charged subquarks, 10 strings)-10 real dimensions
 - Dark matter(uncharged subquarks, 5 strings): 10 real dimension
 - Photons(electromagnetism), bosons-all 26 real dimension
 - Neutrinos-all 26 real dimensions

26 REAL DIMENSIONAL SYMPLECTIC ¹ UNIVERSE	
10 Matter Dimensions	10 Dark Matter Dimensions
Space-Time 4 Dimensions (x,y,z,ict ²)	Space-Time 4 Dimensions i * (x,y,z,ict) = (ix,iy,iz,-ct)
Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 3 Holes – Genus 3 Hodge Diamond (9,11,6,7)	Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 4 Holes – Genus 4 Hodge Diamond (17,12,21,12)
Symplectic Calabi-Yau Manifold 6 Synchronizing Compactified Dimensions 8 Holes – Genus 8 Hodge Diamond (8,23,21,17)	

¹ Symplectic = real and imaginary pairs.
² ict = $\sqrt{-1}$ * speed of light * time.

The Need for Sacred Geometry

- Western science has discovered that after 500 years of study only 5% of the mass/energy of the universe has been studied; the rest may lie in other dimensions, so for example three spatial dimensions holding 5% implies 60 dimensions holding all the universe
- Dark or transparent matter was discovered by Fritz Zwicky (1933) and Vera Rubin (1970) when they calculated the mass required to keep spinning galaxies together, and determined dark matter is 27% of the universe
- Dark or transparent energy was discovered by Slipher (1912) and Hubble (1924) when they observed that all the galaxies are moving away from one another driven by dark energy which is 68% of the universe
- The sacred geometry encompasses all the dimensions that permit matter, dark matter, and dark energy to vibrate to make up the universe

26 REAL DIMENSIONAL SYMPLECTIC ¹ UNIVERSE	
10 Matter Dimensions	10 Dark Matter Dimensions
Space-Time 4 Dimensions (x,y,z,ict ²)	Space-Time 4 Dimensions i * (x,y,z,ict) = (ix,iy,iz,-ct)
Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 3 Holes – Genus 3 Hodge Diamond (9,11,6,7)	Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 4 Holes – Genus 4 Hodge Diamond (17,12,21,12)
Symplectic Calabi-Yau Manifold 6 Synchronizing Compactified Dimensions 8 Holes – Genus 8 Hodge Diamond (8,23,21,17)	

¹ Symplectic = real and imaginary pairs.
² ict = $\sqrt{-1}$ * speed of light * time.

Sacred Geometry

The 26 Real Dimensional Universe

- There are eight subspaces of three spatial dimensions each in the universe; these are each vibrating
- The eight subspaces are paired, with one being real and the other imaginary (rotated ninety degrees away from the first), so there are four complex subspaces of three complex dimensions each
- Matter/energy (including the human body) is in a ten dimensional subspace, four for spacetime, six compactified (two subspaces of three real dimensions that are complex conjugates)
- Dark matter (including the soul and mind forms) is in a different ten dimensional subspace, paired as complex conjugate, four for spacetime conjugate, six compactified (two three real dimensional subspaces that are complex conjugates)

26 REAL DIMENSIONAL SYMPLECTIC ¹ UNIVERSE	
10 Matter Dimensions	10 Dark Matter Dimensions
Space-Time 4 Dimensions (x,y,z,ict ²)	Space-Time 4 Dimensions i * (x,y,z,ict) = (ix,iy,iz,-ct)
Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 3 Holes – Genus 3 Hodge Diamond (9,11,6,7)	Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 4 Holes – Genus 4 Hodge Diamond (17,12,21,12)
Symplectic Calabi-Yau Manifold 6 Synchronizing Compactified Dimensions 8 Holes – Genus 8 Hodge Diamond (8,23,21,17)	

¹ Symplectic = real and imaginary pairs.
² ict = $\sqrt{-1}$ * speed of light * time.

Sacred Geometry

The 26 Real Dimensional Universe

- A final six real dimensional compactified subspace links the two matter and dark matter compactified subspaces (two three real dimensional subspaces that are complex conjugates)
- The eight subspaces of three dimensions each are vibrating at different frequencies and levels, with linkage to the octonions and the exceptional Lie Groups (G2, F4, E6, E7, E8) which themselves are all linked to the octonions
- there are many other dimensions between these three dimensions that can be reached by changing the vibration frequency and intensity; these are characterized by the 196,884 dimensional Monster group

26 REAL DIMENSIONAL SYMPLECTIC ¹ UNIVERSE	
10 Matter Dimensions	10 Dark Matter Dimensions
Space-Time 4 Dimensions (x,y,z,ict ²)	Space-Time 4 Dimensions i * (x,y,z,ict) = (ix,iy,iz,-ict)
Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 3 Holes – Genus 3 Hodge Diamond (9,11,6,7)	Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 4 Holes – Genus 4 Hodge Diamond (17,12,21,12)
Symplectic Calabi-Yau Manifold 6 Synchronizing Compactified Dimensions 8 Holes – Genus 8 Hodge Diamond (8,23,21,17)	

¹ Symplectic = real and imaginary pairs.
² ict = $\sqrt{-1}$ * speed of light * time.

Sacred Geometry

- The basic building blocks of matter are the electron and fractional electrically charged subquarks each of which is covered with ten closed vibrating strings
- The basic building block of a sentient mind form are charge free subquarks covered with five closed vibrating strings
- The basic building blocks of fields are photons and neutrinos that are in all 26 dimensions
- The vibrations of the strings generate the higher realm harmonies, the so called music of the spheres

26 REAL DIMENSIONAL SYMPLECTIC ¹ UNIVERSE	
10 Matter Dimensions	10 Dark Matter Dimensions
Space-Time 4 Dimensions (x,y,z,ict ²)	Space-Time 4 Dimensions i * (x,y,z,ict) = (ix,iy,iz,-ict)
Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 3 Holes – Genus 3 Hodge Diamond (9,11,6,7)	Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 4 Holes – Genus 4 Hodge Diamond (17,12,21,12)
Symplectic Calabi-Yau Manifold 6 Synchronizing Compactified Dimensions 8 Holes – Genus 8 Hodge Diamond (8,23,21,17)	

¹ Symplectic = real and Imaginary pairs.
² ict = $\sqrt{-1}$ * speed of light * time.

Sacred Geometry: Trinity and Tree of Life

- **The Trinity:** The three compactified subspaces form a trinity: Jesus of Nazareth explained this as the son (the soul of Jesus) resides in the dark matter compactified subspace, the holy spirit (a different spiritual entity) resides in the matter compactified subspace, and the father (a higher spiritual entity) resides in the synchronizing compactified subspace
- **The Tree of Life:** The three six dimensional compactified subspaces have eight holes that link different dimensions together, so there are a total of $3 \times 6 = 18$ dimensions, but only $18 - 8 = 10$ independent dimensions, called in the Kabbalah as sephiroth or elements from the Tree of Life

26 REAL DIMENSIONAL SYMPLECTIC ¹ UNIVERSE	
10 Matter Dimensions	10 Dark Matter Dimensions
Space-Time 4 Dimensions (x,y,z,ict ²)	Space-Time 4 Dimensions i * (x,y,z,ict) = (ix,iy,iz,-ict)
Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 3 Holes – Genus 3 Hodge Diamond (9,11,6,7)	Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 4 Holes – Genus 4 Hodge Diamond (17,12,21,12)
Symplectic Calabi-Yau Manifold 6 Synchronizing Compactified Dimensions 8 Holes – Genus 8 Hodge Diamond (8,23,21,17)	

¹ Symplectic = real and imaginary pairs.
² ict = $\sqrt{-1}$ * speed of light * time.

Sacred Geometry Examples

- Pyramids are found all over the planet and in all ages
 - Egypt
 - Central and South America
 - Scandinavia
 - India
- The Bhagavad Gita provides a wealth of Hindu sacred geometries, including the hindu cross which the Nazis coopted as the swastika
- Plato identified special geometric figures called Platonic solids
- Pythagoras and his School identified two dimensional (equilateral triangle, square, pentagon, hexagon, octagon,

26 REAL DIMENSIONAL SYMPLECTIC ¹ UNIVERSE	
10 Matter Dimensions	10 Dark Matter Dimensions
Space-Time 4 Dimensions (x,y,z,ict ²)	Space-Time 4 Dimensions i * (x,y,z,ict) = (ix,iy,iz,-ict)
Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 3 Holes – Genus 3 Hodge Diamond (9,11,6,7)	Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 4 Holes – Genus 4 Hodge Diamond (17,12,21,12)
Symplectic Calabi-Yau Manifold 6 Synchronizing Compactified Dimensions 8 Holes – Genus 8 Hodge Diamond (8,23,21,17)	

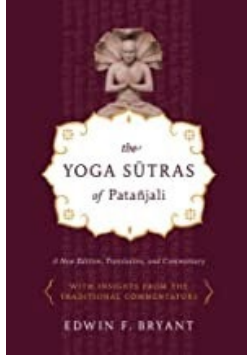
¹ Symplectic = real and imaginary pairs.
² ict = $\sqrt{-1}$ * speed of light * time.

Sacred Geometry Examples

- Christianity uses the symbol of the cross in many different ways
- The Kabbalah of Judaism relies on the ten sephiroth of the Tree of Life and the four elements of Fire, Water, Air and Earth
- Native shaman have relied on the geometry of circles and sticks
- Labyrinths are found all over the planet and in all ages
- Stonehenge and Avebury in England, New Grange in Ireland, Carnac in Brittany and Kobeke Tepli in Turkey are prime examples of stone circles

Meditation

- Meditation is the action of linking the human mind with the spiritual side of life
- Meditation as a practice can lead to enhanced compassion for others and love for oneself and for others
- Many think of a duality between the mind or consciousness of the human body and the spiritual soul: meditation leads to the realization that there is non duality, only the reality of the soul or spirit is valid



26 REAL DIMENSIONAL SYMPLECTIC ¹ UNIVERSE	
10 Matter Dimensions	10 Dark Matter Dimensions
Space-Time 4 Dimensions (x,y,z,ict ²)	Space-Time 4 Dimensions i * (x,y,z,ict) = (ix,iy,iz,-ct)
Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 3 Holes – Genus 3 Hodge Diamond (9,11,6,7)	Symplectic Calabi-Yau Manifold 6 Compactified Dimensions 4 Holes – Genus 4 Hodge Diamond (17,12,21,12)
Symplectic Calabi-Yau Manifold 8 Synchronizing Compactified Dimensions 8 Holes – Genus 8 Hodge Diamond (8,23,21,17)	

¹ Symplectic = real and imaginary pairs.
² ict = $\sqrt{-1}$ * speed of light * time.

Interactions Between the Physical and Spiritual Parts of Humans

- The soul is linked to mind forms made up of dark matter subquarks, and can interact with the elements of the world of matter through gravitation (a weak force) typically via vibrational coupling (the atoms vibrate and this energy couples to the soul)
- The dark matter mind forms are inert if there is no vibrational energy to couple to; typically dark matter forms tubes that are thousands of kilometers long and drift in interstellar space
- The soul can temporarily leave the human body through an out of body experience; it will return at an appropriate time, or it will leave if the body dies

The Pristine Mind

- Guided meditation is a step by step process
- Each step builds on the preceding step
- The goal is to empower the practitioner to gradually experience a mind free from
 - feelings, thoughts, barriers and other mental clutter that obscures true awareness
- The mind increasingly becomes free of misperceptions, distortions and barriers to enlightenment and awareness of true reality

The Temptation of St. Anthony

What Distracts the Mind



Enlightenment/Awareness

- Enlightenment or awareness is a measure of how well our mind is aligned with reality, undistorted by the ordinary or conscious mind
- Enlightenment or awareness is a state of mind that overcomes misperceptions (based on desires and aversion) that characterize our unenlightened happiness and security
- Enlightenment or awareness leads to compassion and true love which is far richer, far beyond anything the conscious mind can experience

Enlightenment

- Enlightenment is not the function of our mental state, but perfection of our **entire experience of the world around us**



The Garden of Earthly Delights

What Distracts the Mind



The Stages of Meditation to Achieve Enlightenment and Awareness

- Meditation is the practice of working to achieve enlightenment or awareness of the true reality of the universe
- Meditation involves calming the conscious mind, so that distractions or all sorts are ignored in the desire to grow more and more calm
- Initially it is difficult for many to achieve calm for more than a minute or so, but with practice, this time can be extended to five minutes, ten minutes, twenty minutes and so forth, and this calm can be achieved more and more rapidly, within five seconds

The Stages of Meditation to Achieve Enlightenment and Awareness

- With greater practice, it is possible to experience awareness of the true reality the incredible intense emotions of love for yourself, love for your neighbor, and compassion for all, and these emotions are far beyond anything the conscious mind senses
- Awareness of the richness of the universe all around us leads to a realization that what is thought of as dimensions (height, width and length) in fact are vibrational modes, and there is a huge number of different dimensions and modes of vibrations in the universe
- Underlying all of the universe is the collective unconscious, which is information (algorithms and data) that coats the walls of quantum space compartments and synchronizes with all other information via scan/response

Guru Yoga



- In Vajrayana guru yoga the practitioner unites their mindstream with the mindstream of the body, speech, and mind of their guru.
- Guru yoga is akin to deity yoga since the guru is visualized in the same manner as with a meditational deity.
- The guru may be visualized as above the meditator, in front of them, or in their heart.
- Guru yoga may also include a liturgy, prayer, or mantra, such as the "Seven Line Prayer" of Padmasambhava, or the "Migtsema" (a prayer to Je Tsongkhapa).

The Endgame of Consciousness, Enlightenment and Awareness

- A major transformation in consciousness takes when one attains non-duality.
- To quote Phakchok Rinpoche,
 - the self disappears as if the self never existed in the first place.
 - When the self disappears, so does 'other.'
 - One finds oneself in a natural state of union.
- The four negative emotions (anger, resentment, hyper-criticism and guilt) no longer arise at all.

Joy, Love and Compassion



Closing Comment: A Prediction

- The fastest growing group in the USA for religious affiliation is spiritual but no formal religious affiliation
- Over time (one or more centuries) love and compassion can become an integral part of daily life complementing materialism
- Over time (one or more centuries) the followers of all formal religions can be expected to decrease
- In part this is due to children thinking for themselves and asking what spiritual path they find most compelling for their life
- In part this is due to failure of formal religions to meet the true needs of all people for love of oneself, love of one another, and compassion