

Basic Concepts

Metaphysics, Metamathematics and Mysticism

Where Science, Art and Spirituality Meet

Aleph Talks

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Science Is In Crisis

- After five hundred years, science has realized it has been studying a small fraction of the universe
- Science has realized that energy and mass are equivalent forms of another, and that perhaps $1/8$ of the universe is energy/mass
- What about the rest?
 - One part, perhaps $3/8$ of the total mass/energy of the universe, is called dark or transparent matter, and was discovered in examining the spinning pinwheel galaxies throughout the universe
 - One part is called dark or transparent energy, perhaps $4/8$ of the total mass energy of the universe, was discovered by looking at how galaxies move to and from one another in space

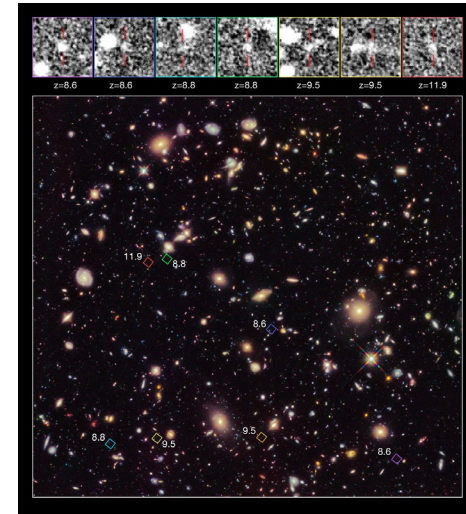
Missing Mass or Dark Matter

- A typical rotating spiral galaxy can contain 100M stars
- If each of these stars is roughly the mass of our Sun, the gravitational energy required to keep the stars spirally about the center of the galaxy can be determined
- Zwicky (1933) and Rubin (1970) carried out many such observations of how fast different galaxies are rotating
- They find that the stars by themselves cannot generate enough gravitational attraction to keep the spiral together
- In fact, there appears to be perhaps 3X as much transparent or dark matter as mass/energy we do see that we cannot see that is holding the galaxy stars together in the spiral due to gravitation



Missing Energy or Dark Energy

- Slipher in 1912 and Hubble in 1925 observed that all galaxies are moving away from one another
- The Nobel Prize in Physics in 2011 was awarded for detailed measurements of the incredibly enormous energy driving this expansion
- We can infer that this is roughly 4X as great as the mass energy of the observable universe
- Physicists call this energy dark or transparent energy



The Missing Mass/Energy May Be Vibrating in Other Dimensions: How Many More Dimensions?

- If $1/8$ of the energy/mass in the universe is in **3 dimensions** then it follows that ALL of the energy/mass must be in **24 dimensions**
- Energy/mass is always vibrating; in fact, what we call mass is in fact not mass per se but in fact dense concentrations of energy, so dense that we perceive it as solid, but in fact it is vibrating energy
- Can we actually observe these other dimensions?
- Some claim we can do so through meditation!

Let Us Meditate To Find Other Dimensions

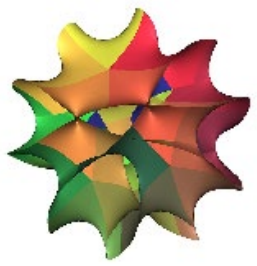
- You meditate to calm down your conscious mind
- You envision a small person behind your eyes looking out, so there is a duality between your consciousness/the small person and the outside world the consciousness perceives
- You meditate very deeply
- You realize that you are stepping back from yourself
- You see yourself resting and meditating, but you are outside looking in, like looking in on a holographic movie
- You must be viewing all of this from other dimensions!

Loss of Duality: True Awareness/Enlightenment

- You have a notion of duality: you look out through your eyes and see the world around you
- You are watching yourself meditate, but also sensing so much more
- You are resident in many more dimensions, not just three, and you sense the loss of duality: your conscious mind disappears
- You sense the other dimensions deeply, which make up true reality
- As a refinement, you can see that the dimensions are separated by finer grained dimensions: as vibrational energy increases, you go up in dimensions, as vibrational energy drops you do down in dimensions

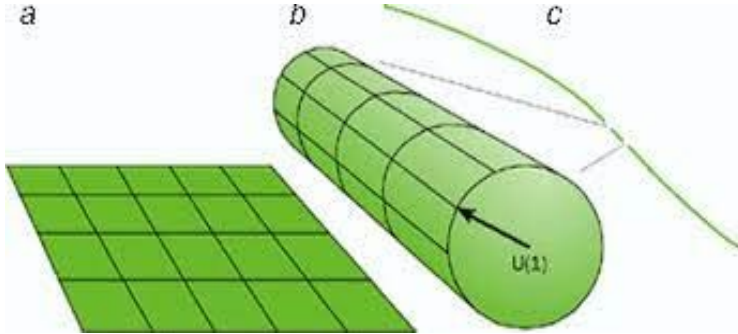
The Eternal Cycle: Birth, Life, Death, Rebirth

- You have an eternal soul that incarnates with a body, plant, rock
- Each lifetime a set of goals are blocked out, but when you incarnate a veil of forgetfulness blocks knowing the goals, so free will allows you to explore this life and attempt to achieve the goals you set
- With each lifetime your soul strives to attain greater awareness of the universe, and to achieve higher levels of love and compassion for self and for others
- Your body is born, lives and dies; the soul links with the body through the major chakras at birth and disengages at death

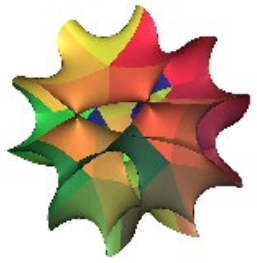


Sacred Geometry: Compactified Realms

The Dimensions Are Compactified!

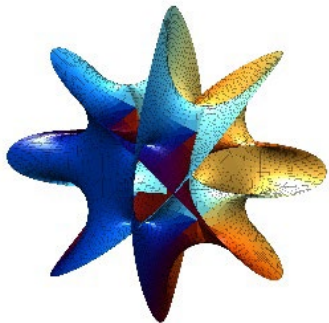
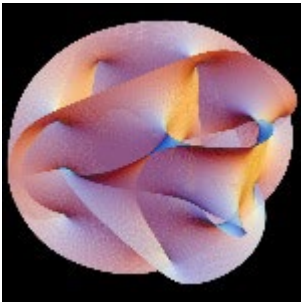


- There are four subspaces each of three complex dimensions
- For each of the three complex dimensions, when we look at the axis of one dimension, there are three complex planes (each one complex dimension) wrapped around each axis
- Locally each appears to be like a plane, but globally there are holes interconnecting these manifolds
- Each compactified subspace has a different metric of geometric curvature



The Sacred Geometry of the Higher Realms

- Each subspace of three real dimensions is paired with another subspace of three real dimensions, four pairs of three complex spatial dimensional subspaces
- Three compactified subspaces of six real dimensions each suggest a linkage to what Jesus of Nazareth called the trinity of Father, Son and Holy Spirit
- Each of these subspaces has unique topology: holes connect the different subspaces together, so eighteen real dimensions becomes ten real dimensions which suggests a link to the Kabbalah with the ten sephiroth of the Tree of Life
- Each of the three compactified subspaces has different geometric curvature

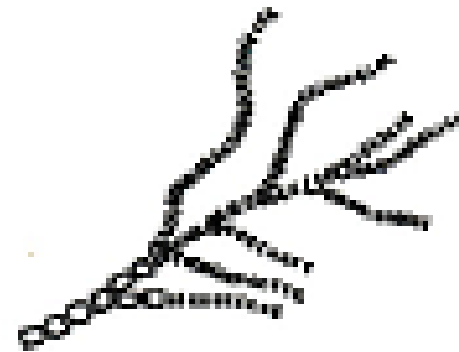
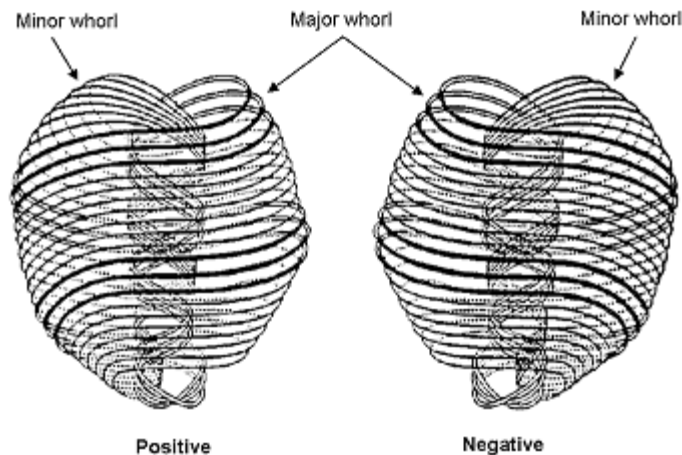
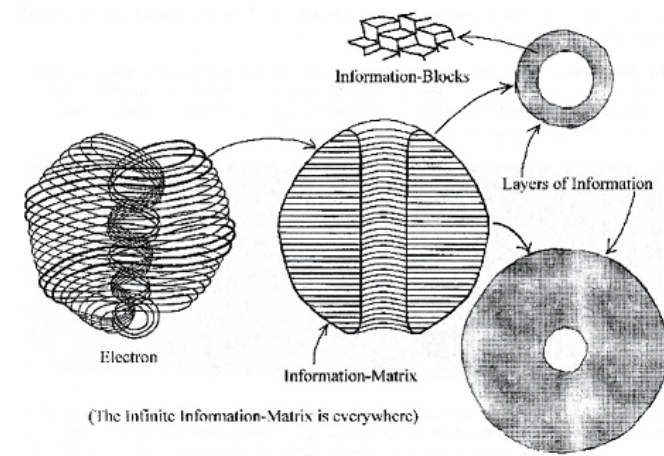


INFORMATION CONTROL HIERARCHY	
Matter	Dark Matter
Biology DNA / RNA, Bioelectricity Mortal	Biology Sentient or Quiescent Life Force Energy – Immortal
Chemistry Electronic Periodic Table of Elements	Chemistry Nuclear Geometry Branching Trees
Physics 10-String Subquarks & Bosons, Electrons	Physics 5-String Subquarks & Bosons (No Electrons)
INFORMATION Calabi-Yau Manifolds	

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The Microcosm

- Meditation permits clairvoyance into the microcosm
- All matter is made up of atoms
- Atoms are made up of a cloud of electrons and a nucleus of protons and neutrons
- The neutrons and protons are made up of charged quarks which are in turn made up of charged subquarks, ten closed vibrating strings
- Dark matter is made up of five closed vibrating strings





Information Covers Every Space Compartment

- If we meditate very deeply, we can attain clairvoyance such as others have done (Besant and Leadbeater, 1908; Cowen, 2016)
- If we look into the microcosm, we see that space itself is a foam of quantized discrete compartments or cells
- The discrete compartments of space are covered with blocks of information which contain the algorithms and data for the evolution of the universe
- C.G.Jung called this information the collective unconsciousness that pervades and controls all powers for the evolution of the universe

Putting It All Together

- We live in a 24 spatial dimensional universe
- Matter resides in three spatial dimensions with another six compactified spatial dimensions plus one time dimension
- Dark matter resides in three spatial dimensions with another six compactified spatial dimensions plus one time dimension

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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.

Spiritual Implications

- **Christianity** has sensed three subspaces that may be compactified Calabi-Yau manifolds; the trinity of father, son and holy spirit
- **Judaism** Kabbalah has sensed ten planes or sephiroth (18 dimensions with 8 holes results in 10 base dimensions)
- **Hinduism** has sensed an immortal soul (that lives as dark matter) and a cyclic view of birth and death and rebirth for the human body with its soul and the universe
- **Islam** builds on Judaism and Christianity
- **Taoism** and **Buddhism** speak of the way, the way of Jesus of Nazareth
- Mathematics not physics is the basis of the universe: The Langlands program of metamathematics unifies number theory, symmetry (group theory), and harmonic forms (music of the spheres)