Source Science and the Hyperdimensional Nature of Reality

Presented Sat Sept 24, 2016 in Bangalore, India Quantum Doug Matzke doug@quantumdoug.com http://www.quantumdoug.com

Bio for Quantum Doug

Quantum Doug started programming over 45 years ago and started studying metaphysics over 40 years ago. He earned a masters degree in Electrical Engineering with master's thesis on biofeedback devices in 1980. In 1992 and 1994 Doug was chairman of two PhysComp workshops on physics and computation. In 2002 he earned a Ph.D. in Electrical Engineering with dissertation on quantum computing. He has written over 40 papers and presentations, awarded over 10 patents and won a \$1 million SBIR funding to study the connections between neural computing and quantum computing (yes there are many). He is a certified master practitioner in Neuro-Linguistics-Programming (NLP), and trained in multiple "energy" modalities. He meditates regularly and has sung for 40 years.

Doug spoke in Bangalore in 2014 and now he gives an update on his latest work that is going into a new book with co-author Bill Tiller.

What is Source Science?

Based on the latest physics and mathematics, Source Science is a model of humans in the universe that connects information science, quantum physics, mind and metaphysics. Source is generic name for Prana, life force or God.

Thought, awareness, meaning and knowing are as mysterious as consciousness and are just as fundamental since they are all information centric. Likewise normal human intelligence is a mystery (no matter what google says about DeepMind and deep learning). The biggest information science mysteries are genius and savant intelligence plus supernormal psi behaviors. These are all information based so must be built on a quantum like information mechanism that existed "before" classical physics or protophysical. Its no longer about proving anything, its about developing this native mental information technology.

Source of Physical and Non-physical "stuff"

Source Science connects the dual meanings of source:

- 1. Source of all **physical** things: i.e. fields matter, energy, spacetime, gravity, bits, etc.
 - Modern physics knows that physical really means it is measureable/interacts
 - Some things are hard to measure: neutrinos, Higgs, spacetime, dark matter, ...
 - Bits are now considered physical, so info/entropy/disorder is physics
 - All information processes must be part of physics, including thoughts, mind
- 2. Source of all **non-physical** things: i.e. quantum, thoughts, meaning, prana, love, etc.
 - Parts of physics are not ever measurable: quarks, quantum waves, dark energy, ...
 - Other things effect the world are also not measurable: thoughts, prana, love, ...
 - Thoughts etc. are primary and is the final frontier since is the source code of the universe.
 - Richard Feynman said: "The world is not classical dammit, it's quantum mechanical"
 - "Quantum mechanics is the dreams that stuff is made of" (saying on my favorite t-shirt)

Physical/non-physical distinction is no longer relevant in physics

Classical physics emerges from the Quantum Realm

>Quantum is more primitive due to these unusual properties (50-100 years):

- Fundamentally quantized with wave-particle duality (discrete spin ½, charge ¼, etc.)
- Speed of causality is based on quantized energy giving rise to fixed speed of light
- Quantum probability amplitudes are mathematical (not field or wave)
- Quantum Measurement and wave function collapse
- Uncertainty principle, structure of spacetime and zero point energy
- Superposition of states and positions (half heads and half tails)
- Entanglement is proven even though Einstein called it "spooky action at a distance"
- Tunneling is direct result of pervasive quantum probabilities
- Superconductivity
- Bose-Einstein statistics and condensate indistinguishable states
- Bits are physical and is smallest increment to black hole.
- Quantum gravity gives rise to black holes and Hawking radiation
- Shor's algorithm and quantum polynomial time complexity class
- My works suggests Higgs, dark matter and dark energy are all 4D and entangled

>Impossible for classical physics to give rise to purely quantum behaviors

The most efficient way to simulate a quantum system is to use the quantum



Notable Transpersonal Stories/Technology

Touching the Divine is life changing

➤Telepathy

- Shared Dreams
- Animal Whispers
- Suzy Miller awesomism and light language
- Ester Hicks who channels Abraham about LOA
- Personally chatting with 4 leaf clovers and my spoon bending

➢OBEs, NDEs, remote viewing and dowsing

- Robert Monroe: "Journeys of the Body", OBE pioneer/engineer
- Elizabeth Mayer: "Extraordinary Knowing", if true this changes everything
- Harold Puthoff: "Mind Reach", US government use of remote viewing
- Joe McMoneagle, Patricia Cyrus, Randy Z,...: remote viewers I know
- Eben Alexander: "Proof of Heaven", neurosurgeon with NDE
- Anita Moorjani: "Dying to be Me", cured of stage 4 cancer after NDE

➢ Prana Generators

- Reiki, acupuncture, pranic healing, kundalini, many other modalities
- Intention Host Device: Bill Tiller and Randy Ziesenis
- Structured water: Randy Ziesenis, Tony Wood, Revalesio and many others
- Vital Energy generator/Tapes: Yuri Kronos
- Buddha Relics: Nisha Manek says they change people

➢ REG PK and Outside time behaviors

• Many listed on next slide



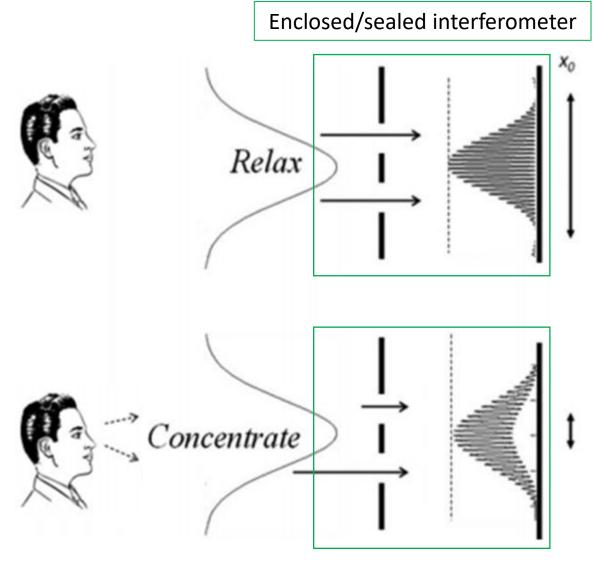
Thoughts on Thoughts – non-classical requirements

- 1. Telepathy is real so represents symbolic meaning without language
 - Suzy Miller and her light language & Deborah S with "parenthesis around my thoughts"
- 2. Humans can directly affect the world (non-local/psychokinesis), most notably:
 - Electronic REG PK by many groups (Mind Science Foundation, Jahn, Psyleron, ...)
 - Intention Host Device and Gas Discharge by Bill Tiller (water pH and fruit flies)
 - Twin Slit interferometer PK by Dean Radin
 - Remote Staring (plus remote viewing and astral projection)
 - Copper Wall experiments with meditators and TM group mediators
 - Consciousness shorting out light bulbs and electronics (quantum noise)
 - Global consciousness project (detected world events before they happened)
 - Spoon Bending and Japanese Ki/Chi Exhibitions (bending steel rods, etc.)
 - Levitation (i.e. Transcendental Mediation "hopping" and unliftable marshal artists)
 - Reiki, pranic healing, intention, prayer, meditation and other therapeutic modalities
 - if you assume the mind is not the brain, then thoughts affect the brain (normal)
- 3. Timeless phenomena: delayed choice, Precognition, 10K photos, retrocausation
- ≻Thought are things, but classical models do not explain 1-3 above
 - Thoughts are really "quantum info things" made from hyperdimensional bits (rotes)



Example: Mind PK directly influencing Quantum States

- Mind can directly influence quantum amplitudes
- No other affects except
 wave property of light and focus/attention/intention
- All PK REGs are the mind influencing the quantum amplitudes/probabilities
- Effects size is largest when correlating into the future

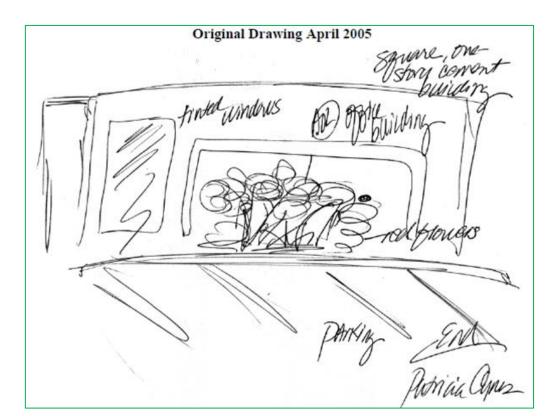


Images from Dean Radin

Personal Example of Precognitive Remote Viewing

Patricia Cyrus Target Apr 2005:

Descarbe the appearance, purpose and mechanism of Device using "Invariant Phase Shifting"



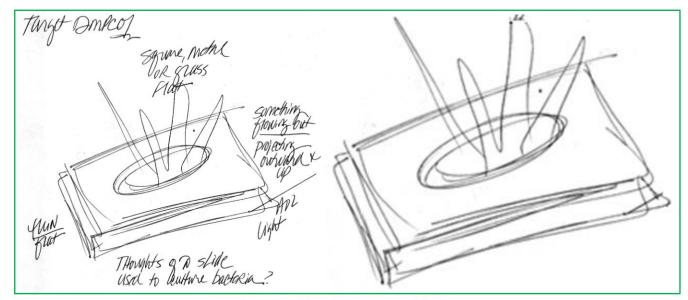


Photo of Building Nov 2008



No apologies for scientists working on Source/Psi

- Past: shamans, Robert Monroe, Robert Jahn, Bill Tiller, Dean Radin, Daryl Bem
- Unstated assumptions effect models (nature of spacetime, mind, etc.)
- Out of time behaviors can break conventional causal models/protocols
- Scientists' beliefs can affect results (classic particle/wave duality)
- Scientists' attention can affect results (placebo affect requires blinding)
- Quantum mechanics showed incompleteness of classical physics
- Humans exhibit behaviors not supported by classical models
- Information is physical must be extended to include mind/metaphysics
- The universe is quantum mechanical, hyperdimensional and bits
- Source Science domain is "protophysics", bits preexisting of spacetime
- Subjectivity itself is part of "objective" research (down the rabbit hole)

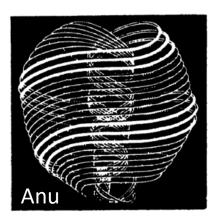
Skeptics don't determine the laws of physics, God does ③

Source Science view of Human Consciousness

Fundamental aspects of mind as known by sages of the ages:

- Consciousness, awareness, meaning, knowing, attention, intention & being
- Mind is source for awareness, knowing, visual, auditory & emotions (not in brain)
- Mind is probabilistic and gestalt with symbols/archetypes (not language)
- Mind can focus at any level from **subatomic** to galactic level awareness & beyond
- Mind can focus anywhere and anywhen (not in the classical brain)
- Mind is a non-physical information system (universal source code)
- Mind is massively parallel and has no limit to complexity increases
- Everything is connected with an intrinsic oneness and wholeness
- Everything is divine, intelligent and can interact/respond
- More than our physical body, magnificent spirit beings having a physical experience

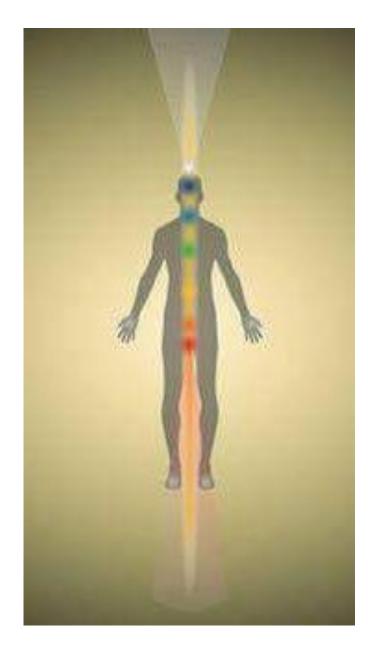
Source Science goal is to explain these transpersonal/informational mysteries



Source Characteristics

- Is informational, but is not a field or wave, nor matter or energy
- Freely available since infinite supply
- Not in spacetime, but intersects probalistically with spacetime
- Not directly measurable, just like quarks, quantum states, ...
- Observable using mind's eye (see graphic)
- Source filaments show up as "light filaments" (auras, orbs)
- Can be mechanically generated (tug on the ether)
- Encoded in water, air, IHDs, churches, etc. (naturally/artificial)
- When not balanced/flowing gets stuck/heavy in body
- Supports awareness, knowing, intelligence and emotions
- Feels calm, loving, intimate and divine (magnificent)
- Hyperaware and direct knowing of anything, anywhere, anywhen
- Being over thinking or action (spacetime/verbnoun balanced)

Where attention goes prana flows



Info Technology is Metaphor of Mind's Abilities

These technologies are so compelling since they mimic native mind:

- Intelligence is ubiquitous and everything can interact (Internet Of Things)
- We are all connected as if space/distance does not exist (oneness, sort of)
- Google search/Wikipedia are like direct asking/knowing (the akashic records)
- Tweets and alerts are like intuition and thought packets (rotes)
- Movies are like passively watching emotionally engaging dreams
- Digital Video recorders, replay and slow motion are like warping time
- Virtual reality and gaming are like lucid dreaming
- Video calling, sonograms, medical scanners, satellites are like remote viewing
- Tweets, email and social media sharing are like rotes/telepathy
- Telepresence and drone 3d video goggles are like astral projection
- 3D printer technology is like direct manifestation
- Medical technology is like innate healing

Info Requirements for Source Science Model

Source Science must identify thought information representation that:

- Does not depend on matter/energy
- Transcends space/time (nor any derived space/time properties, i.e. frequency, ...)
- Is Turing complete (can compute anything)
- Is Quantum computing complete (consistency, holistic, probabilistic & entangled)
- Is Shor complete (supports Shor's algorithm which implies hyperdimensional !!)
- Is Von-Neumann balanced (no differentiation of data/program or space/time)
- Allows self organization in spite of entropy (perhaps source of negentropy)
- Allows robust (probabilistic) interaction of mind with the physical world
- Everything can be arbitrarily interconnected (holographic does not meet above)
- Does not have a complexity limit (allows genius, savant and infinite intelligence)

Quantum states meet these requirements (with some explanation)

Cleaning up our language/thinking (NLP 101)

Language terms that do not work if spacetime metrics don't apply:

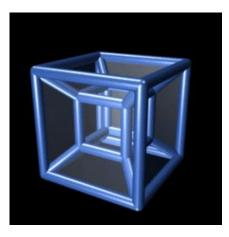
- Dimensions: our 3d+1t continuous spacetime is emergent from primitive **protodimensions/bits**
- Frequency or Fourier transforms: none in quantum realm, only parallel states: use term "vibrational"
- Field or waves: Since no space or frequency, then no propagation of fields (EM or gravity)
- Energy: is really a well defined physics term, so shouldn't be applied here since is ST metric
- Subtle energy: is a category error, so prefer terms **source** or **prana** (we don't use the term subtle mass)
- Entropy: is a statistical measure of disorder, but if no spacetime then entropy must be rethought
- Von Neumann Computing is data (for space) and programs (for change): is not verbnoun balanced

Language terms to be avoided for hyperdimensional spaces:

- Distance: same formulas now mean similarity or correlation
- Duration: no global or relativistic time only primitive state change independent of any others
- Non-local: There is no distance, so something local in 4 dimensions appears non-local in 3D
- Faster-than-light: if a back door is taken in other dimensions, then is instantaneous or infinite velocity
- Center of a black hole: diameter of black hole is exactly 0 (singularity with max length contraction)
- Entropy: Complexity increases without using energy, so is source of negentropy (are two sources)
- Holographic: holograms reduce dimensionality but not possible to reduce hyperdimensional states

Source Science Foundations from Physics/Math

- 1. Information is Physical (not just mathematical)
 - Rolf Landauer: Erasing information loses energy (measured in 2014)
 - John Wheeler: "It from Bit" since a bit is smallest change to a black hole
 - Bits are physical and have an effective energy and an equivalent mass
- 2. Reality is Hyperdimensional (not 3 space + 1 time dimensions)
 - Bits, qubits and ebits are very real with essential novel behaviors
 - Bit is one dimensional and is used to make qubits and ebits
 - Qubit is quantum primitive for superposition with 2 private bit dimensions
 - Ebit is quantum primitive for entanglement with 4 private bit dimensions
 - Shor's algorithm uses 2¹⁰⁰⁰ states to compute faster than any classical computer
- 3. Thoughts are quantum things (not in the brain)
 - Thoughts are "information things" and intentions affect the physical world.
 - Thoughts can "directly" affect REG PK devices in the physical world (even brain)
 - Solution required to show how non-physical mind can influence order/disorder

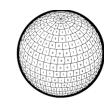




Source Science is Informational and Protophysical

Bits are the smallest quanta identified by physics, so we'll start there:

- 1. Each bit is orthonormal vector (geometric algebra not in spacetime)
- 2. Qubit (spin ½) is formed with 2 bit vectors (not in spacetime)
- 3. Qutrit is 3 bit vectors standard model quarks/leptons/bosons appear
- 4. Ebits are entanglement of 2 qubits (with 4 bit dimensions, no spacetime)
- 5. When >20 bits, content addressable memory properties emerge
- 6. Bit equivalent Black holes are formed when a large sun collapses
- 7. Empty Spacetime is discrete quantum ether formed from "quantum foam"



John Wheeler's "it from bit" spans the small to the big



spin ½

State(

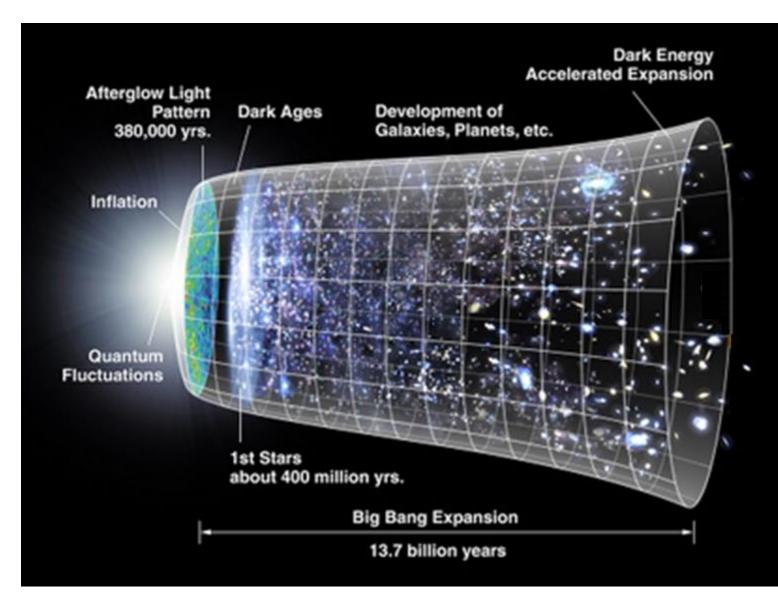
State1

State0

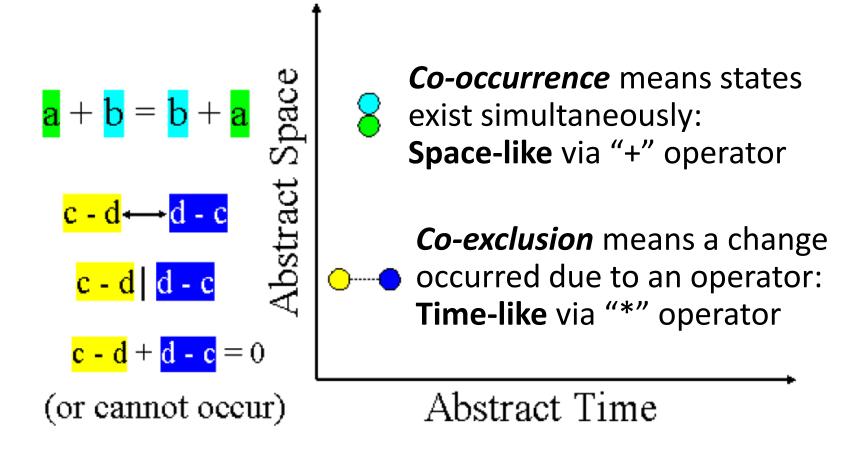
State1

Protophysics is "before physics" of big bang

- First Singularity created
 - the big bang
 - Time itself
 - Space and inflation
 - Energy/fields
 - Matter/gravity
- "before" big bang event
 - bit bang
 - Quantum states Bits
 - Highly specialized state where dimensions united creating S/T/E/M
 - a big thought?



Protophysics - emergence of Space and Time



Energy of Big Bang from Bits: Coin Demo: Act I

Setup:

Person stands with both hands behind back

Act I part A: 🏠 Person shows hand containing a coin then hides it again Act I part B: Person again shows a coin (indistinguishable from 1st) Act I part C: Person asks: "How many coins do I have?" This represents one bit: either has 1 coin or has >1 coin

Coin Demo (continued)

Act II:

Person now holds out hand showing two identical coins



We receive one bit since ambiguity is resolved!

Act III: co-occurrence

Asks: "Where did the bit of information come from?"

Answer: *Simultaneous* presence of the 2 coins!

Landauer Principle: info creation = effective Energy

Non-Shannon space-like information derives from simultaneity!

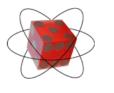
Statistics and Source Science

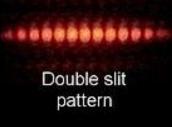
- Probabilities are intrinsic (or global knowledge or for all time)
- Quantum states are statistical due to superposition
- Schrodinger's cat (what scale does superposition end?)
- Classical statistics randomness and countable states
- Bose-Einstein statistics countable *indistinguishable* states
- Bell statistics *correlations* above classical statistics (non-local)
- Retrocausation statistics *correlations* above classical statistics
- Statistics, Infor and Entropy Maxwell's demon
- CAMS/Correlithms and standard distance/radius
- Shor's algorithm requires infinite precision floating point numbers.

The mind is source code programming the probabilities

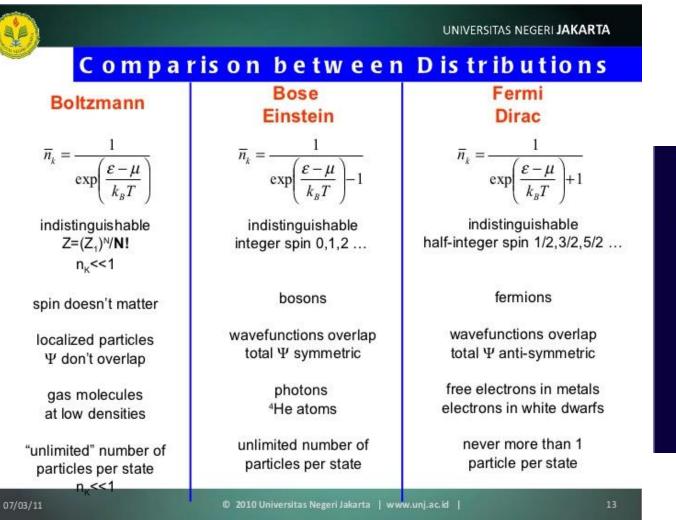




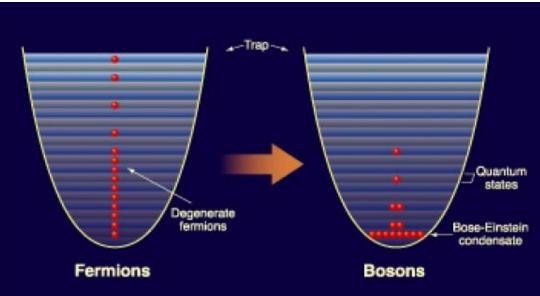




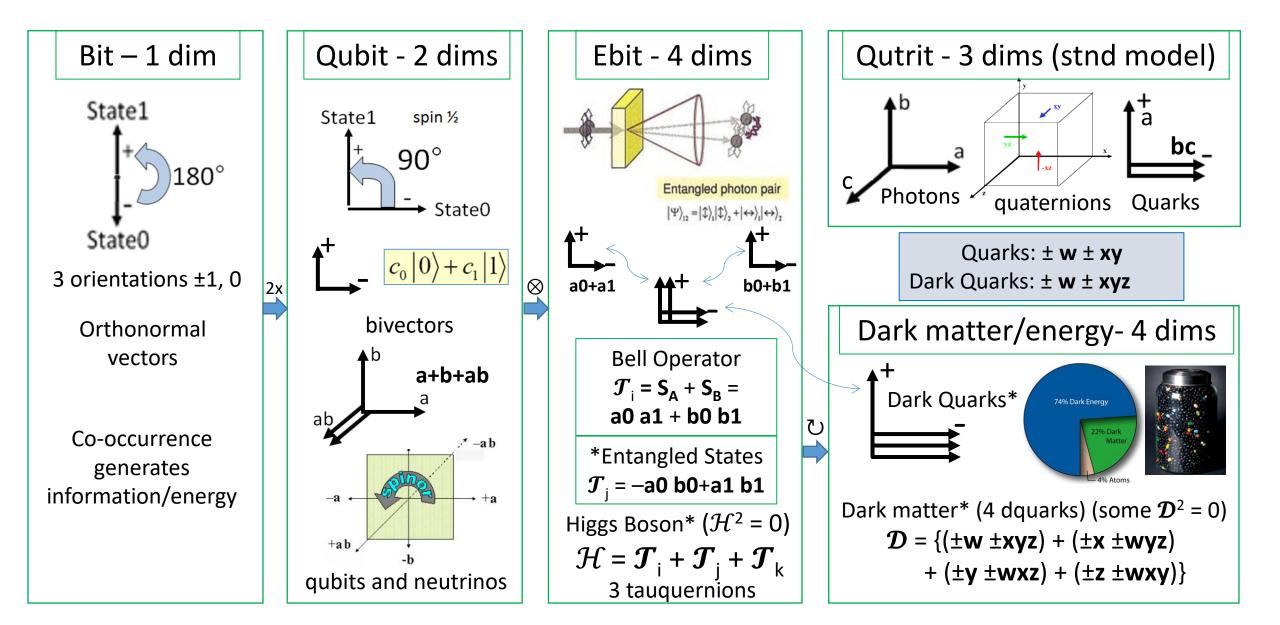
How do Fermions and Bosons know to do this?



Fundamental topology must create these rules



What are quantum states? – geometric algebra 101



Particles X²=1 (Unitary) in Geometric Algebra

Find all Unitaries in G using: gasolve([a,b,], lambda X: X*X, 1)					
Space	Count	Unitary Multivector	Particle Description		
\mathbb{G}_1	Total 2	± a	Exclude scalar value of ±1		
\mathbb{G}_2	Total 12		(qubit space)		
	4	±x	Vectors are distinctions		
	8	±a ±b ±ab	Neutrinos (predict 4 not 3)		
G ₃	Total 90	*quarks are: ±x ±yz	(Standard model Space)		
	6	±x	Vectors are distinctions		
	24	±x ±y ±xy	Neutrinos (3x8=24)		
	12	±xy ±xz	Electrons (3x4=12)		
	48	±x ±y ±z ±xy ±xz	Protons (neutrons = xyz protons)		
G ₄	Total 12,690		17 Different signatures		
	10	±x and ±wxyz	Vectors and Mass Carrier		
			16 more signatures		

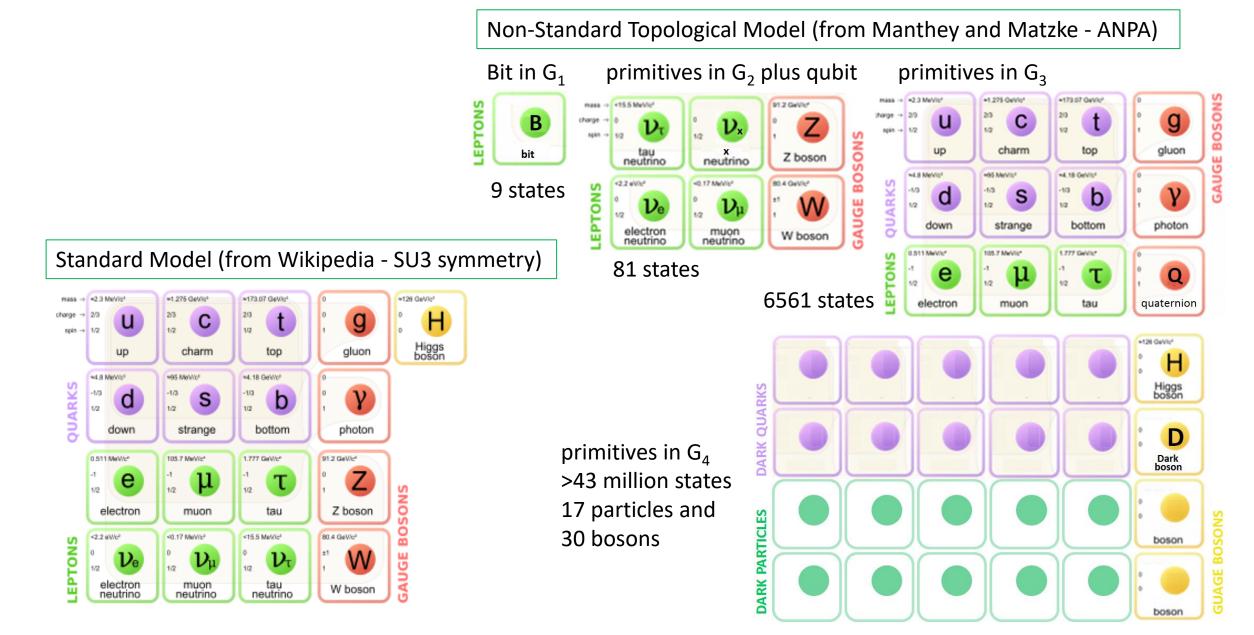
For $X^2 = X$ (Idempotent) and $U^2 = 1$ (Unitary) then $X = -1 \pm U$ (proof $X^2 = (-1 \pm U)^2 = X$)

Bosons X²=0 (Nilpotents) in Geometric Algebra

Find all bosons in G using: gasolve([a,b,], lambda X: X*X, 0)				
Space	Count	Boson Multivector	Boson Description	
$\mathbb{G}_{0} \And \mathbb{G}_{1}$	Total 0	Exclude 0 from this table	0 ² =0	
\mathbb{G}_2	Total 8		(qubit space)	
	8	$\pm \mathbf{x} \pm \mathbf{x}\mathbf{y} = \pm \mathbf{x}^*(1 \pm \mathbf{y})$	Weak Force Bosons W/Z	
G ₃	Total 80	*quarks are: ±x ±yz	(Standard model Space)	
	8	±a ±b ±c	Photonic Boson (Qutrit)	
	24	±x ±xy	Weak Force Bosons in \mathbb{G}_{3}	
	8	±ab ±ac ±bc	Quaternions are bosonic	
	24	±x ±z ±xy ±yz	Mesons are two quarks	
	16	±x ±y ±z ±xy ±xz ±yz	Strong Force (Gluons)	
G ₄	Total 7,280		30 Different signatures	
	80	±x ±xy and ±w ±xyz	Weak and Dark Bosons	
	528	(ab - cd) + (ac + bd) + (ad - bc) &	16 Higgs Boson & others	
			28 more signatures	

 \mathbb{G}_3 is equivalent to Pauli Algebra and \mathbb{G}_4 contains Dirac Algebra. Also Parsevals Identity

Organizations of Primitive "Particles"

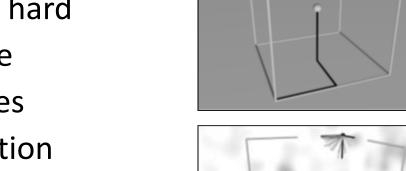


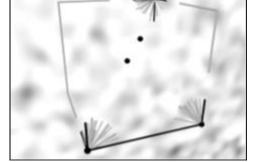
Content Addressable Memories 101

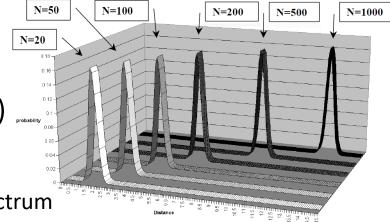
- Pick a random point P in a 3 dimensional space easy
- Pick a random point P in a 100 dimensional space hard
- Pick 2nd point Q in a each space compute distance
- Pick 3rd point X in a each space compute distances
- Find the distances have an average value and deviation

For dimensions N>20 and Middle point M:

- Distance PQ is $\sqrt{N/6}$ (standard distance)
- Standard dev of PQ is $\sqrt{7/120}$ (independent of N)
- Distance PC or QC is $\sqrt{N/12}$ (standard radius) & $\sqrt{1/60}$
- For big N standard distance/radius are constants
 - Intrinsic similarity measure (equivalent to light year in physics)



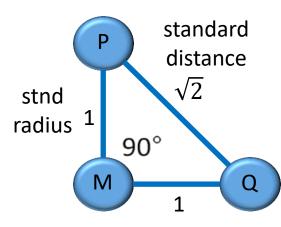




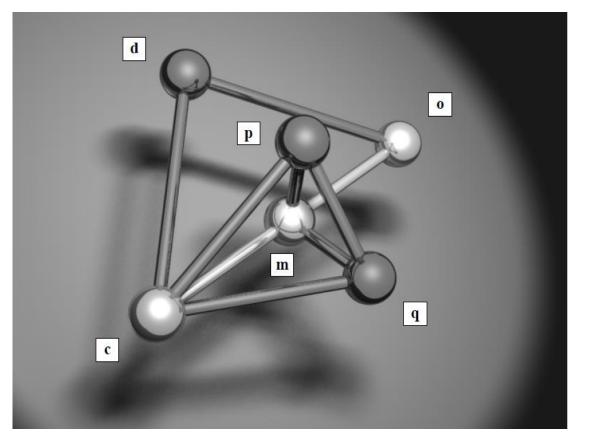
Also know as sparse distributed coding or correlithms and related to CDMA, spread spectrum

Unusual probabilistic geometries from randomness

Points	Raw Distance	Normalized Distance
MQ=MP	$\sqrt{N/12}$ (radius)	1
PQ	$\sqrt{N/6}$ (distance)	$\sqrt{2}$
MC=MO	$\sqrt{N/4}$	$\sqrt{3}$
CP=CQ	$\sqrt{N/3}$	$\sqrt{4}$
DC=DO	$\sqrt{N/2}$	$\sqrt{6}$
СО	\sqrt{N}	$\sqrt{12}$



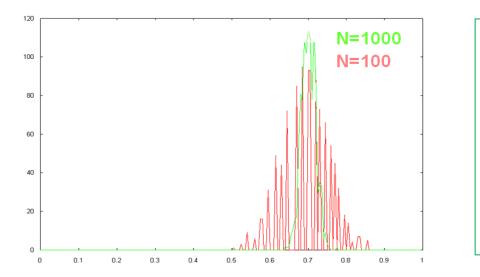
12 dims is special since MP = 1 M = mid/null/void point



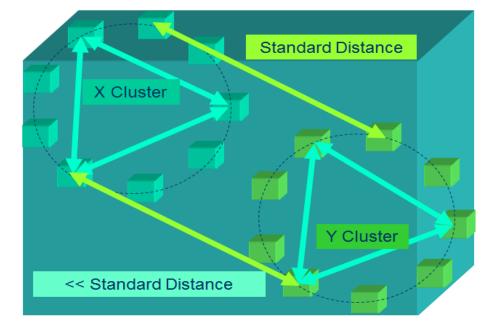
Big thought vectors built from small vectors are orthogonal in hyperdimensional spaces. This is the mathematics of law of attraction. M = middle C = corner O = opposite corner D = random corner P/Q = random points

Quantum CAM – uniform distributed-phase ensembles

- Start with 2 ensembles A&B each of 1000 qubits all with random phase
- Start with 2 measurement a&b ensembles (1000) each with random phase
- Remember all those starting phases to repeat in each trial
- Repeatedly Measure A with a and B with b measuring distance vs last one
- Repeated (A.a)₁ dist (A.a)₂ is 70% of stand dist compared to (A.a)₂ dist (B.b)₂
- Distinguish A from B even with random phases



Mechanism for Quantum Mind interacting with the brain as antenna



Law of Attraction – CAM math

Like attracts Like (requires meaning based matching)

Like things are near each other – High dimensional Vortex (no hologram)

>Inclusion based universe (can't push thoughts away)

≻All cooperative components are assembling in LOA thought region

Content addressable memory is mathematics of LOA (address=data)

➤ Massive contributions to big thought vectors – The Vortex

Neural correlates feeding CAM thought bit vectors

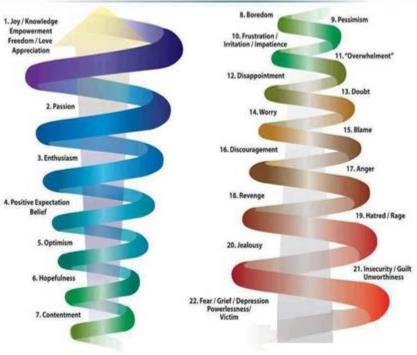
- Thoughts controlling neural/synapse firings
- Visual, Auditory, emotional structures states/chemicals
- Gender and Hormonal contributions to emotions/chemicals
- DNA contributions Morphic Resonance
- Breathing, grounding, Chakras and auric bodies

CAM/LOA has superposition and info based probabilistic clouds

NLP style anchoring creates emotional superpositions

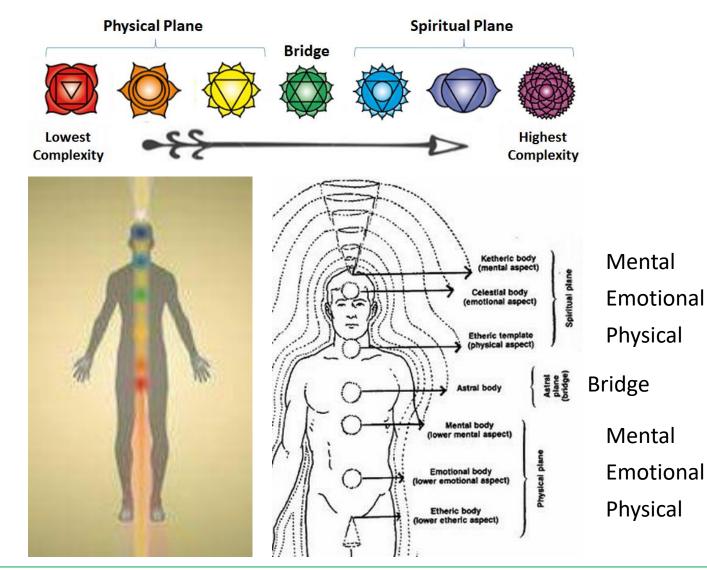
- Emotional Guidance scale choosing the lighter observer frame
- Parallel thoughts rather than sequential thinking (no spacetime)



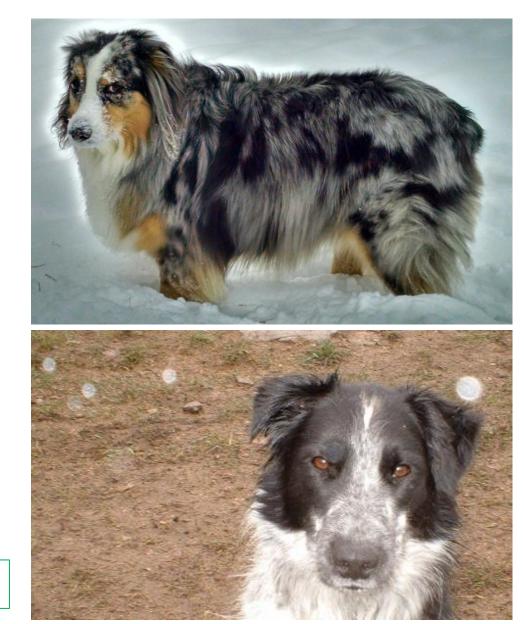


THE EMOTIONAL GUIDANCE SCALE

Prana, Chakras, Auras and Auric Bodies



Auras, orbs and chakras are real and show up on film!



Quantum Matrix: Mind is the Source Code Mind's eye is the ultimate observer

Universe simulated from hyperdimensional foam

Hyperdimensional bit-vectors outside space and time

Source Science: What does it all mean?

> Reality is hyperdimensional quantum matrix (bit-vectors)

- Hyperdimensional bit-vectors is the consistency substrate of quantum mechanics
- Hyperdimensional bit-vectors precede space, time, frequency, energy, matter, fields, gravity
- Entire classical world emerges from this hyperdimensional quantum foam (GA & coin demo)
- This infrastructure supports all of physics, quantum physics and metaphysics (protophysics)

>Law of attraction is naturally part of the hyperdimensional space

- Content Addressable Computing is mathematics of hyperdimensional clustering
- Similarities naturally forms clusters that form the vortices (a pre-spacetime gravity well)
- All thoughts are "big" orthogonal CAM vectors so has no complexity limits

>Mind is native in this hyperdimensional information centric representation

- Quantum thoughts are naturally orthogonal and parallel (sequential is not the norm)
- Fundamentals: awareness, attention, intention, knowing, meaning, being, consciousness
- Mind is root of visual, auditory, feelings, emotions (quantum matrix not in the brain)
- Neural, chemical, dna, emotional, pranic states focal point of mind (dominate = Th/Em/Pr)
- Thoughts are directly aware/interact with the physical world (Telepathy, RV, OBE, NDE, PK)

Source Science Predictions

Here are technology/devices/techniques that are/could be developed:

- Training wheels to help release from our brains (Lucid dreaming, RV, OBE)
- Telepathy enhancers/training
- Directly access intuition/knowing, so less reliant on internet data
- Directly experience the divine and know we are connected (no religions)
- Significant increases in our intelligences (mental, emotional, spiritual)
- High gain PK devices (ebrains) that we could learn to control
- Calming state generators (change emotional landscape of mankind)
- Truly effective and approved healing techniques/technologies
- Interactions with more advanced aware beings (self, angels & aliens)
- Unbelievably advanced technology (last 150 yrs. will seem prehistoric)

Acceptance of Source Science ideas, funding, research and development

Source Science Big Picture for Humans

>Magnificent spiritual beings having a physical experience

- Source/mind is the source code of the universe
- Source/mind/soul is outside brain and spacetime
- We are more than our physical bodies
- We are all one and eternal (unity and panoramic time)
- Source/mind/prana is real, unobservable, intelligent, knowing
- Source/mind represents profound joy and love, Source is love
- Source is god stuff, so we are source
- We are angels
- We are god
- I am god
- I am



We are spiritual beings and more than our body

Traditional view of Mind as Machine



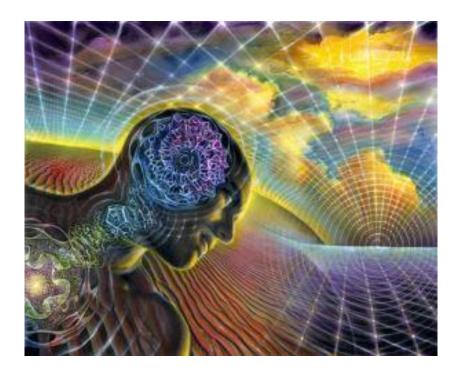
Source Science view of Mind/Reality



Questions and Answers

• Please ask your questions about Source Science





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