The Hyperdimensional bit-physics Infrastructure beneath the Multiverse

Presented for:

Expanding Reality Podcast with Brandon Thomas
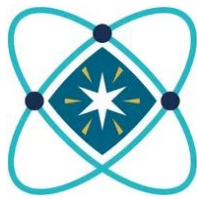
Friday Oct 28, 2022

by Quantum Doug Matzke, Ph.D.
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www.QuantumDoug.com
www.DeepRealityBook.com
www.CoherentSpaces.life

About Doug Matzke

o My moniker is Quantum Doug

o Programming for over 55 years, IEEE Life Member

o Chairman of PhysComp '92 and PhysComp '94

- ANPA Session in PC'94

o Written over 40 papers/talks and 10 patents

- Will Physical Scalability Sabotage Perf. Gains?

o PhD in Quantum Computing in 2002 at UT Dallas

- Quantum Computing using Geometric Algebra

- Built GALG symbolic math tool in python

- GALG research for last 20 years (w/Mike Manthey)

o Awarded $1 million SBIR grants on topics:

- Neural and quantum computing

o Certified master practitioner in Neuro-Linguistics-Programming (NLP)

o Source Science and bit-physics

- Deep Reality coauthor **William A. Tiller (deceased)**

- Co-Founder of company www.CoherentSpaces.life
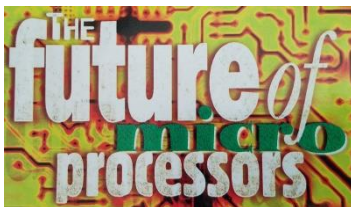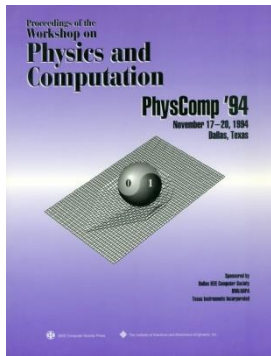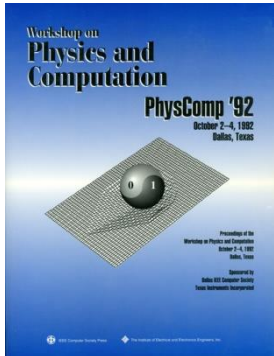
Abstract
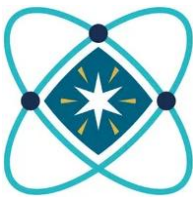
In my 2020 book Deep Reality, I described the bit-physics infrastructure of the universe as a hyperdimensional infinite bit-plane that represents the source of the multiverse and our mind as well.

This conversation will proceed in a non-technical manner about the hyperdimensional nature of Source Science and what it means for humans and our understanding of the multiverse. Hold on to your hat, since this conversation will go where we might not expect.

Definition of Source Science Foundations
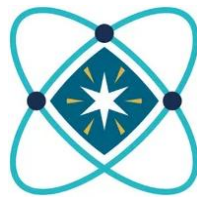
1. Information is Physical (not just mathematical)
   - John Wheeler: "It from Bit" since a bit is smallest change to a black hole
   - Rolf Landauer: Erasing information loses energy (1961 and measured in 2012)
   - Bits are physical and have an effective energy and therefore an equivalent mass
2. Reality 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 2^{1000} states to compute faster than any classical computers
3. Thoughts are quantum things-not in the brain (Descartes assumption is false)
   - 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

"Quantum mechanics is the dreams that stuff is made of"
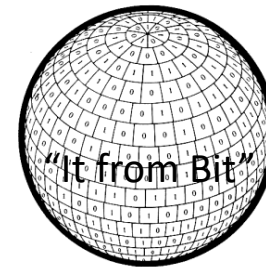
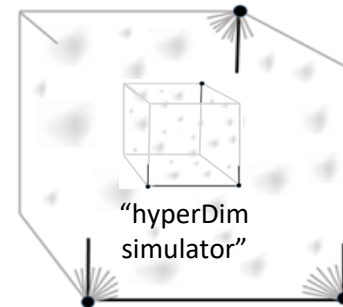# Source is Quantum Simulator
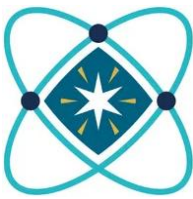
DILBERT — BY SCOTT ADAMS

Richard Feynman

"Nature isn't classical, dammit, and if you want to make a simulation of nature, you'd better make it quantum mechanical, and by golly it's a wonderful problem, because it doesn't look so easy."

"It from Bit"

"hyperDim simulator"

Quantum infrastructure is required to efficiently simulate a quantum universe

Transcendent Behavior Matrix

Mental category and specific examples		Non-classical traits for component			
		Information	Space	Time	Energy
Awareness	Clairvoyance, _audience, _sentience	rotes	remote		
	Remote staring/presentience	physiology	remote	remote	unconscious
Perception	Remote Viewing/NDE/OBE/chakras	rotes	remote	remote	prana
	Anu (occult chemistry)/remote view	quantum	atomic		atomic
	Medical intuition/muscle testing	prana	remote	remote	
	Precognition/dreams/presentience	rotes	remote	remote	
Knowing	Intuition/downloads/zone state	thoughts	remote	remote	
	Intelligence/meaning/savants/infinite	thoughts	memory	speedup	quspeedup
	Telepathy/shared dreams	thoughts	remote	remote	
	Channeling/orbs/walk-ins	thoughts	remote	remote	brain
PK Effects	NLP Anchoring/Timeline/elementary	prana	remote	remote	prana
	Mind/Brain interface	intention	remote		negentropy
	Double-slit/gas-discharge/global cons	quantum	remote	remote	quantum
	REGs (psychokinesis)	quantum/many	remote	remote	quantum/many
	Intercessory prayer/healing	prana	remote	remote	prana
	Intention Host Device (no brain)	thoughts	remote	remote	many

These behaviors are the hard problem of real intelligence (skeptics ignore)

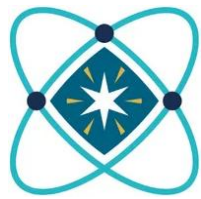# Mind is a hyperspace Instrument
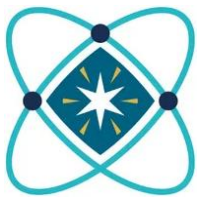
Mind remotely accessing information

- Knowing a subject without traditional learning (science/math/art)
- Direct intuition/dreams/knowing about new technology/inventions
- Direct download of mathematical understanding
- Direct awareness of EM/power flow in circuits
- Direct awareness of energy wells on semiconductors
- Direct awareness of quark-like states in atoms (anu)
- Direct awareness of biofields around living things/plants/people
- Direct knowing of nature, plants, animals, other's thoughts
- Influencing Quantum states (shielded double-slit experiment)
- Remote viewing in non-local distances in space
- Remote viewing in non-local distances in time - presentience
- Savants and infinite intelligence
- Tapping into source of all knowledge – Akashic Records

All this requires a non-classical hyperdimensionality model of science/mind

# Meaning is Hyperdimensional

- Meaning is required for:
  - Understanding concepts
  - Designing experiments
  - Building components and equipment
  - Interpreting results
  - Defining potential inconsistencies in theory/practice
  - Education by communicating and learning
  - Meaning starts in mind and projected upon our environment
- Real Intelligence, beyond information and spacetime
  - AI has failed in general learning machines (no meaning)
  - Hyperdimensional math give properties not possible in 3D math
  - RI, Savants and infinite intelligence are beyond classical AI
  - An actual hyperdimensional space is beyond any 3D simulation
  - Hyperdimensions does not compress into 2D holograms
  - Spacelike connections makes connectivity local (entanglement)

Bits are the Source of Quantum States

Bit – 1 dim

State1

+

180°

–

State0
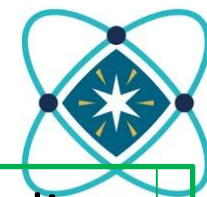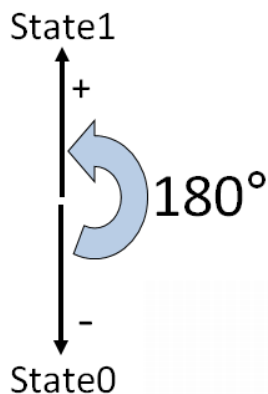
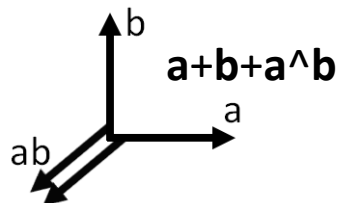3 orientations ±1, 0

Orthonormal vectors **a**, **b**, …

+

–
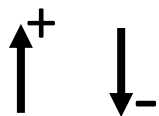
bit-vectors are protodimensions and distinctions

Qubit - 2 dims

State1   spin ½

+

90°

–   State0

bivectors **a^b**
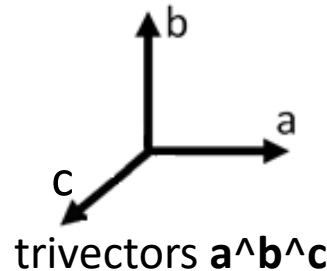
+

–

$c_0|0\rangle + c_1|1\rangle$

oriented spinors

b

a+b+a^b

a

ab
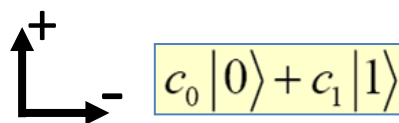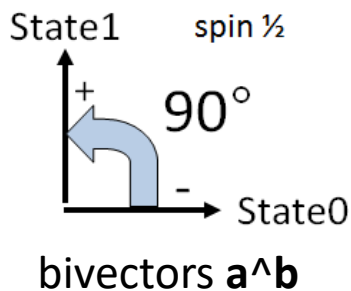
qubits, neutrinos and W/Z bosons

Qutrit - 3 dims

b

a

c

trivectors **a^b^c**

j=**y^z** i=**x^y**

xy

yz

-xz

x

z

k=**x^z**

quaternions {i, j, k}

+

±x ±y^z

–
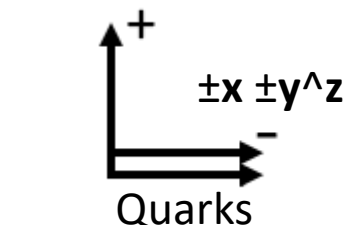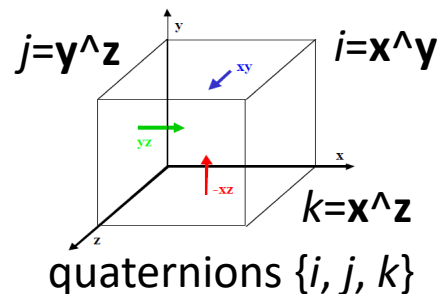
Quarks

photons, gluons, quarks, mesons, electrons, neutrinos

Ebit – 4 dims

A*B = + a0^b0 - a0^b1
      - a1^b0 + a1^b1

+

–

a0-a1

+

–

b0-b1

+

–
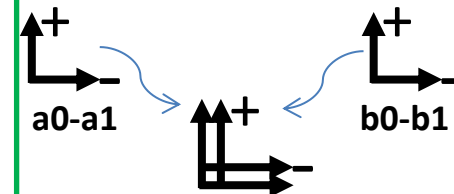
spacelike

Bell Operator
$\mathbb{B}$ = **S$_A$** + **S$_B$** =
a0^a1 + b0^b1

Magic Operator
$\mathbb{M}$ = **S$_A$** - **S$_B$** =
a0^a1 - b0^b1

A*B*$\mathbb{B}$ = **-a0^b0 +a1^b1**
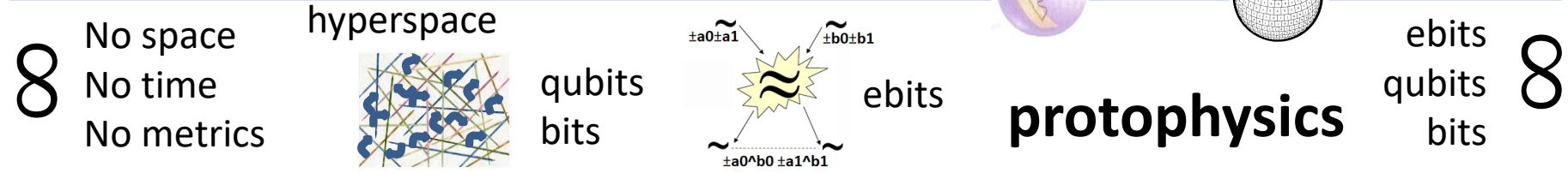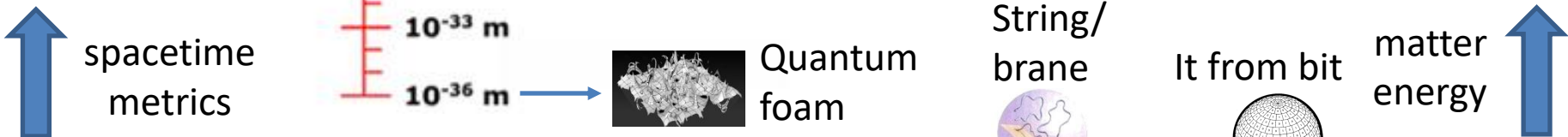A*B*$\mathbb{M}$ = **a0^b1 -a1^b0**

Entangled States $\mathbb{B}_i$
Entangled States $\mathbb{M}_i$

Hyperdimensional spaces can be formed from infinite sets of bit vectors

What is below classical and quantum?

logarithmic scale

1 metre	10^0 m	Person
1 millimetre	10^{-3} m	
1 micrometre	10^{-6} m	Blood Cell
1 nanometre	10^{-9} m	Atom
1 picometre	10^{-12} m	
1 femtometre	10^{-15} m	Atomic nucleus
1 attometre	10^{-18} m	Proton/Neutron
1 zeptometre	10^{-21} m	
1 yoctometre	10^{-24} m	Electron/Quark
	10^{-27} m	
	10^{-30} m	
	10^{-33} m	
	10^{-36} m	

classical realm

quantum realm
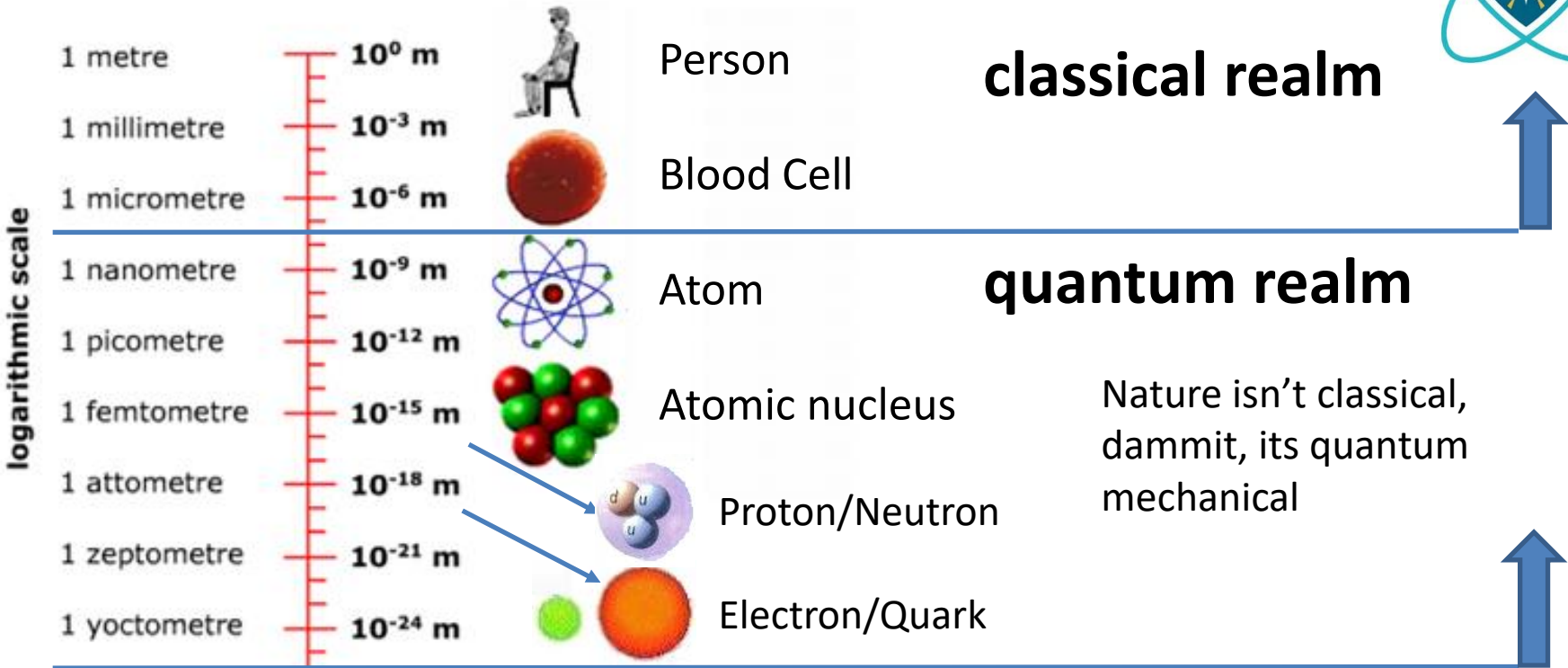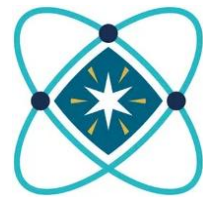
Nature isn't classical, dammit, its quantum mechanical

Planck Scale

spacetime metrics

String/brane

It from bit

matter energy

Quantum foam

hyperspace

No space
No time
No metrics

qubits
bits

$\pm a0 \pm \tilde{a1}$ $\pm b0 \pm \tilde{b1}$

ebits

$\pm a0^\wedge b0 \pm \tilde{a1}^\wedge \tilde{b1}$

ebits
qubits
bits

protophysics

8   8

Quantum spacelike "It from Bit"

quaternions=3D
tauquernions=4D
tauquinions=5D
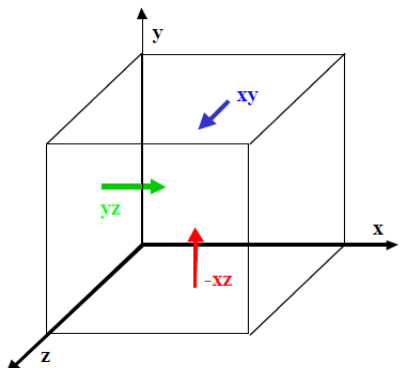
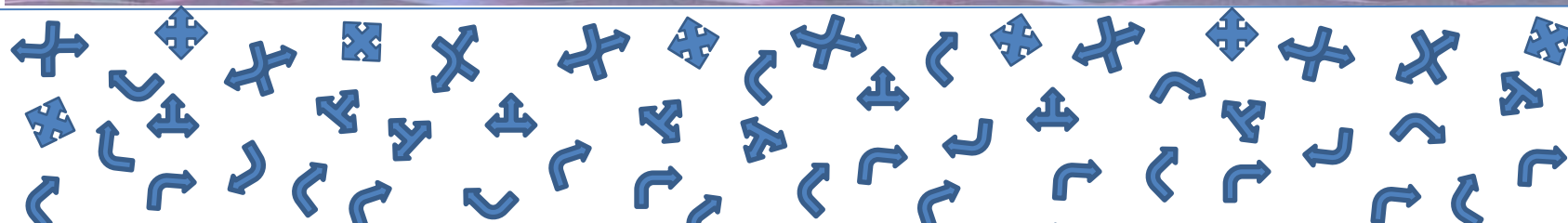spacetime/energy/matter
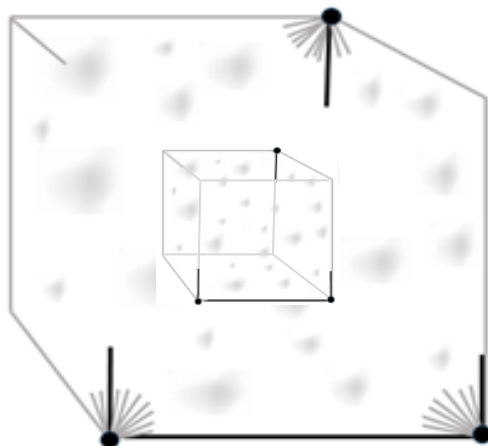
law-of-attraction vortex

correlithms
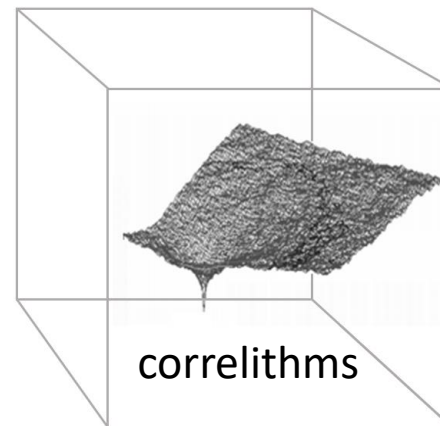
Standard model: electrons (6), neutrinos (8), quarks (12) and bosons (6)
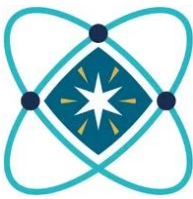
space
time

thoughts

Higgs

ebits

qubits

bits

Spacelike bit vectors, spinors, trivectors, qubits, ebits, 4vectors, N-vectors, strings, …

Content Addressable Memory Math

- 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 many points X in a each space – compute distances

- Find the distances have an average value and std deviation
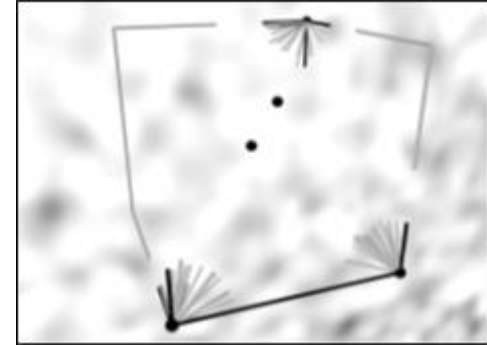
Correlithms for dimensions N>20 and midpoint M: (unit cube)

- Euclidean Distance PQ is $\sqrt{N/6}$ (standard distance)

- Standard dev of PQ is $\sqrt{7/120}$ (independent of N)

- Distance MP or MQ is $\sqrt{N/12}$ (standard radius) & $\sqrt{1/60}$

- For big N standard distance/radius are constants
  - Intrinsic normalization measure (similar to light year)

- Correlithms known as CAM/sparse distributed coding
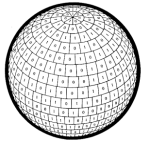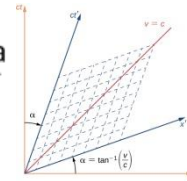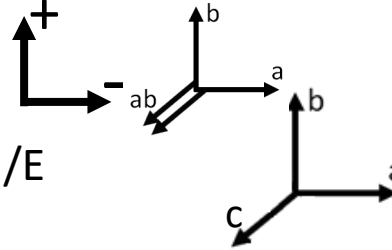 - related to cell phone CDMA and spread spectrum
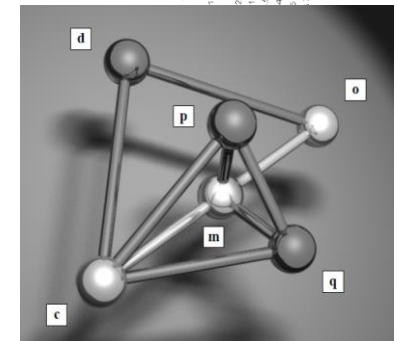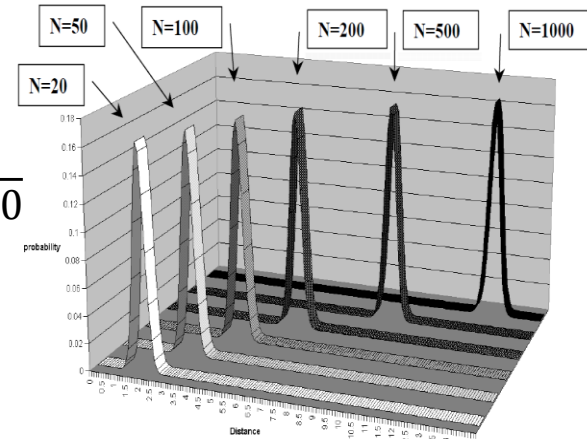
Mathematics for **Law of Attraction** meaning: the data (bits) are the address
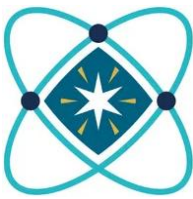
1D, 2D, 3D, 4D, 5D, 6D and N-D

- 0D: The void consciousness
- 1D: Bit-physics
- 2D: Flat world, qubits, neutrinos, W/Z bosons
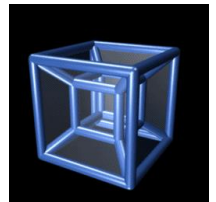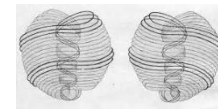- 3D: Classical worldview, standard model S/T/M/E

Spacetime Divide

- 3D+1T: Relativistic worldview, space contraction/time dilation, QFT
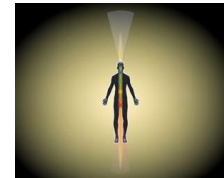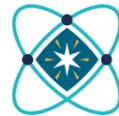
Spacelike Divide includes Dark quarks/matter/energy/anu

- 4D: Ebit Entanglement – spooky action at distant, all entangled

Information/Entropy Divide – no S/T/M/E

- 5D: Pure source beings, orbs
- 6D: Dream realm, no time
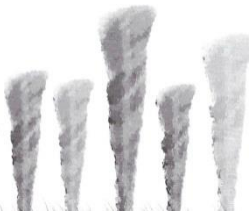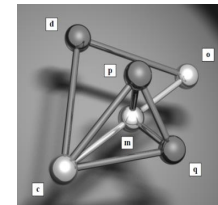- ?D: many more realms (multiverses)
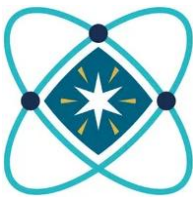
Correlithm/Meaning Divide when > 20 dimensions

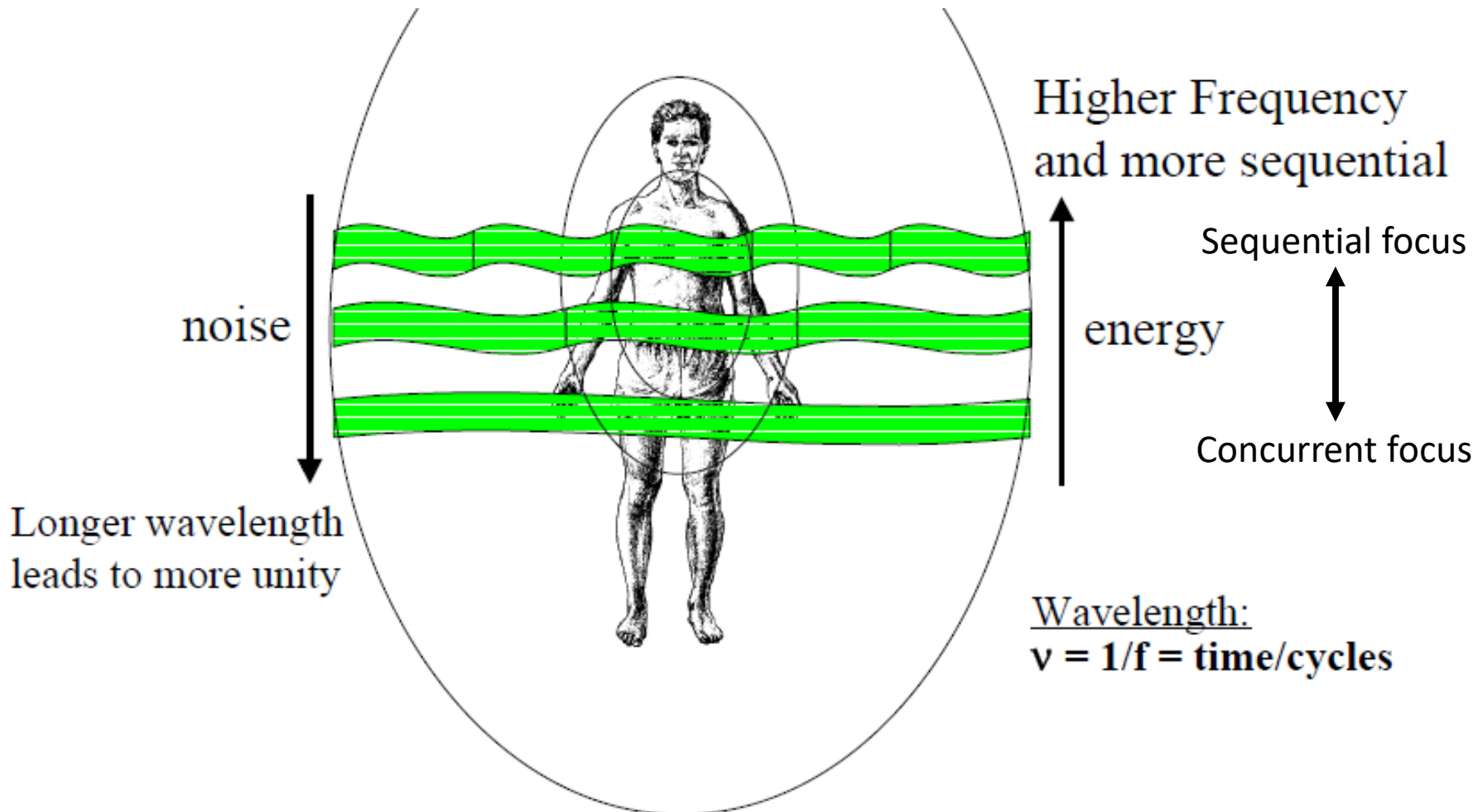- nD: Bit physics simulation of realms above, meaning, law of attraction

Infinity Divide
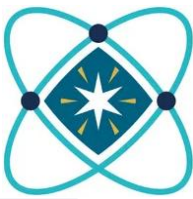
- ∞D: Love, angels, God

Hyperspace and Hypertime Zone

Wavelength determines Size of 'Now' Bubble

Higher Frequency and more sequential

Sequential focus

Concurrent focus

noise

energy

Longer wavelength leads to more unity

Wavelength:
$$v = 1/f = time/cycles$$

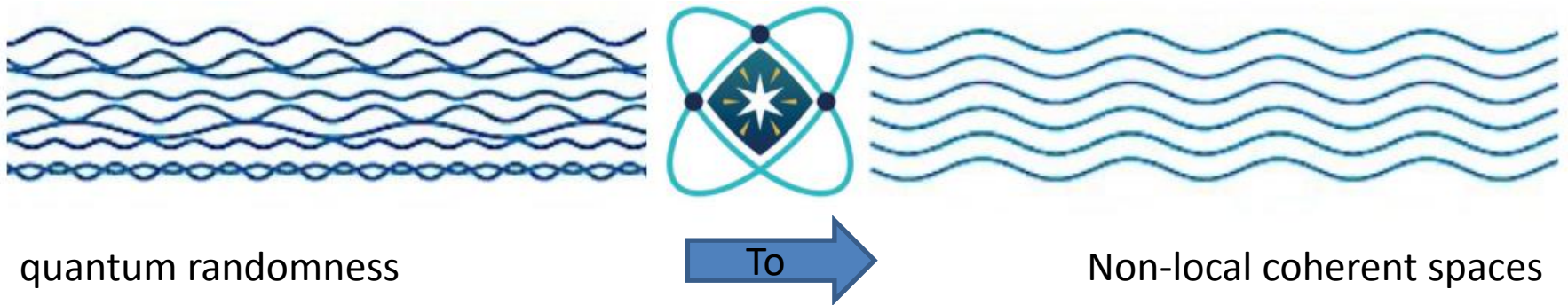Slowing thoughts – step out of spacetime - **Transcendence**
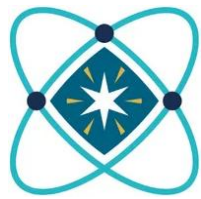
Quantum randomness can be ordered

WISH -World Integrity Space Harmonizer

The science of quantum resonance makes spaces more coherent and ordered! This supports thoughts being more orderly.

quantum randomness

To

Non-local coherent spaces

WISH- World Integrity Space Harmonizer Demo

- Turn ON the WISH unit. Energized Logo
- Unique since designed with electrical and source science awareness
- Quantum Resonance make spaces more coherent and more orderly.
- Negative thoughts/emotions disappear
- Communication device supports higher self and intuition. New best friend!
- Personal/professional markets are: Autistic kids, massage clinics, yoga studios, therapists, elderly care, homes, offices.
- Examples of results
- ❖ Not a medical device nor medical claims

Einstein: "There are only two ways to live your life. One is as though nothing is a miracle. The other is as though everything is a miracle."

More information here:
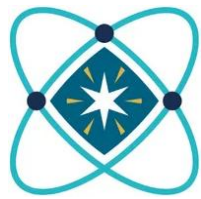
All my talks and papers at www.quantumdoug.com

WISH units www.CoherentSpaces.life & www.DeepRealityBook.com

Dimensional Images to Ponder