

# **The Fundamental Unit of Behavioral Science**

**Kraskin Invitational Skeffington  
Symposium on Vision**

**Dr. T.F. Lee, Jan 14-16, 2006**



# Fundamental Unit of Behavioral Science

- Prologue
- What this is not
- What this is
- Is this possible?

# Prologue

- **For human behavior, there is nothing new under the sun**
- **Behavior has been studied for thousands of years in many cultures. Idioms, proverbs, metaphors, similes, puns, etc.**
- **Being seen as too subjective, there has been no consensus in objective postulate**
- **Overview of knowledge in general**

# What This is Not

- **Cell biology, chemistry, subatomic particle theory, Einstein's general relativity, gravitational theory, Maxwell's electromagnetism, SuperString, M-Theory, empty space energy, EM waves, chi, ying-yang, meditation techniques, spirituality of religion, New Age, etc.**
- **Precise details of physical laws**
- **Theoretical physics or pure math**

# What This is

- **An individual account based on my own personal experience and observation in life**
- **A general view of existence strictly from behavioral perspective**
- **An attempt to find a common thread linking behavioral optometry to science, arts, religion and politics**

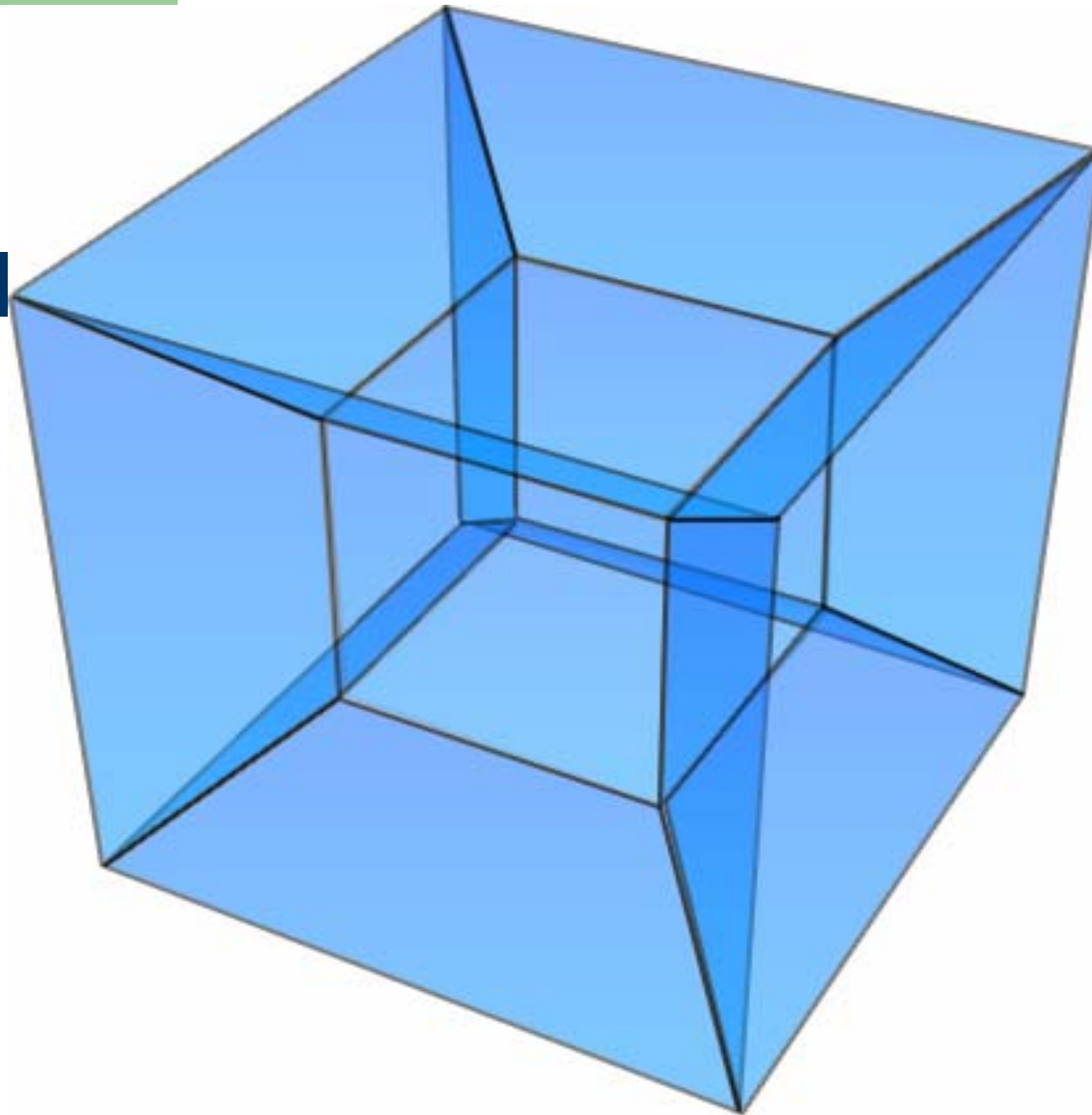
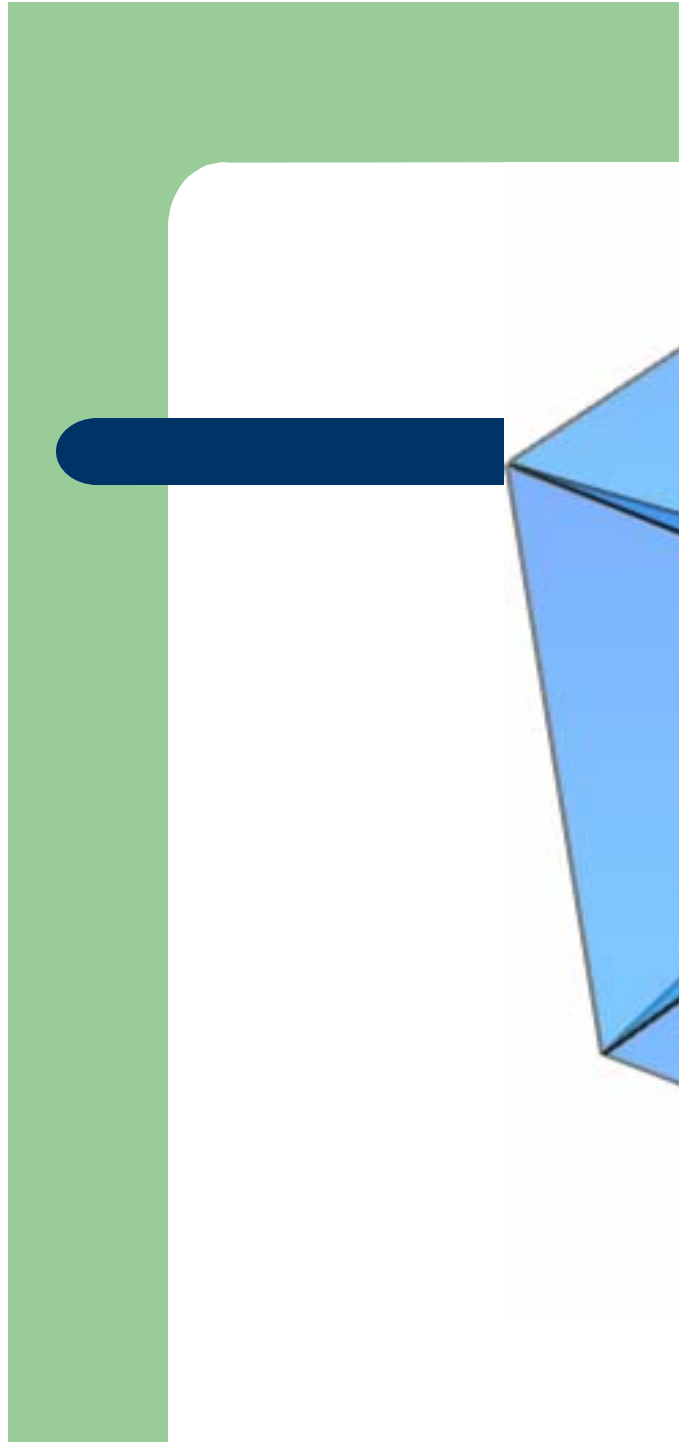
# Is This Possible?

- **Just as the cell is to biology, atom is to physics and periodic table is to chemistry, is it possible to establish a fundamental unit of measurement in behavioral science for the study of all behavior?**
- **Any guesses?**

# Dimension

- Latin for 'measure out'
- Space as multi-D or 3-D?
- Not the same as theoretical physics or pure math. Not to be confused with 4-D object Tesseract.





TF Lee

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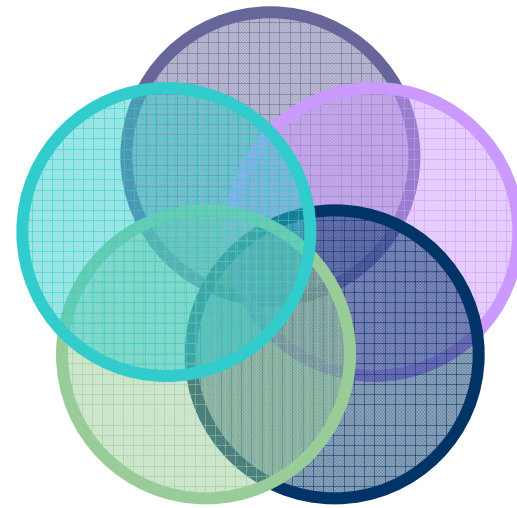


# Natural Laws

- **Law of Existence**
- **Laws of Physics**
- **Law of Spirituality/Meta-physical**

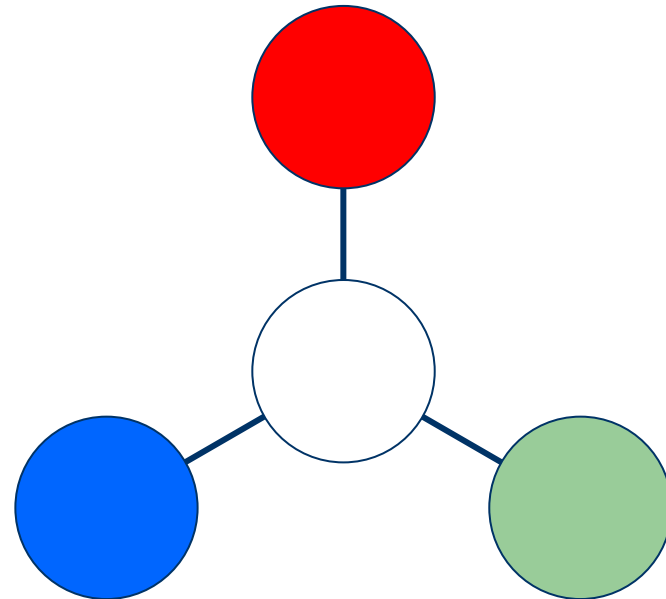
# Law of Existence

- **Natural Law of Existential Progression**
- **General/specific principles**
- **Extra-dimensional Movement (eM)**



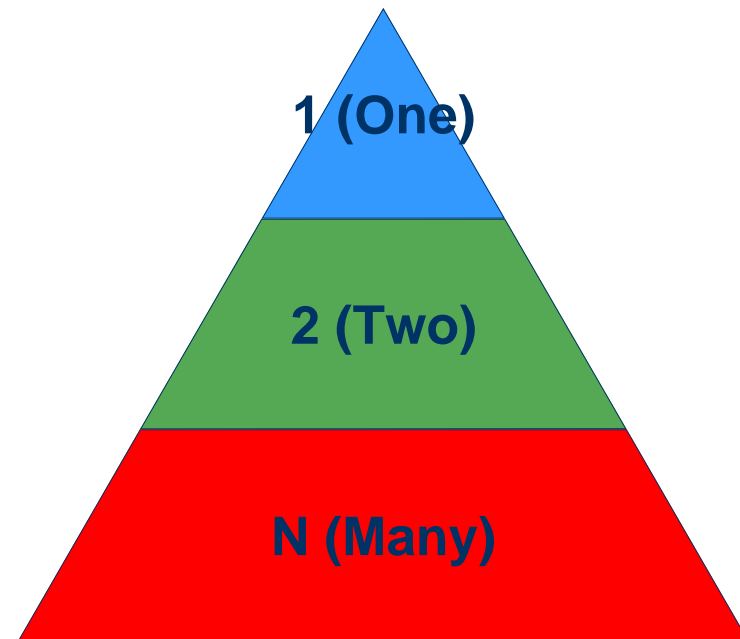
# Laws of Physics

- **Natural Law of Physical Progression**
- **Natural Law of Physical Change**
- **Intra-dimensional to 3-D and movement (iM)**



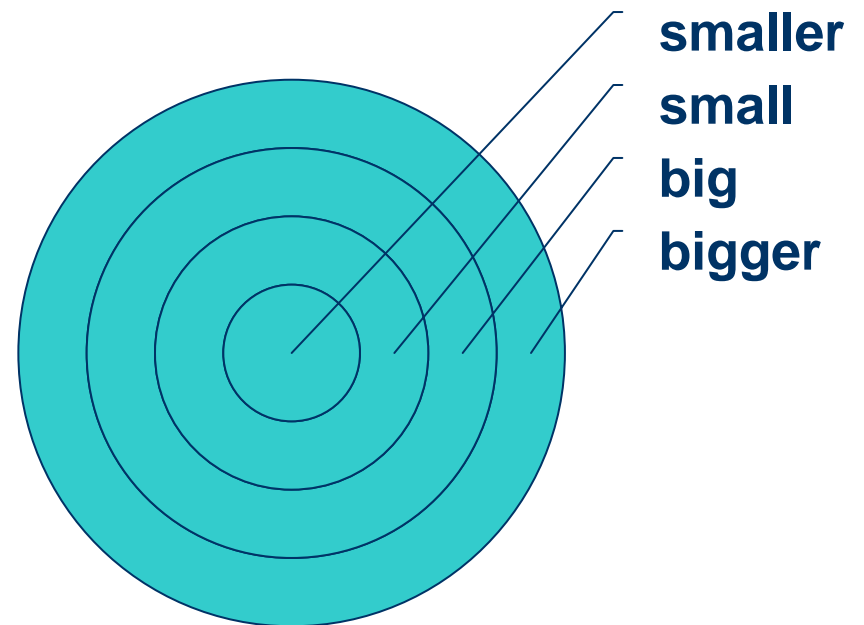
# Law of Physical Progression

- Progression in logical **sequence** or **numbers**
- This is a principle of **specificity** relating to specific location in space



# Law of Physical Change

- **Change/movement in Space known as Time (iT)**
- **It relates to size, is a principle of Movement (iM)**
- **iM=iT**



# Dimensional Examples

- **Wave and particle theory in dimension**
- **1-D: single beam of light, night star with flicker**
- **2-D: plane surface, mirrors, optical illusions**
- **3-D: inanimate objects, plants, lenses and prisms**
- **4-D: animals, humans**

# Movement/Change/Time

- Movement is an indication of Time
- Different types of movement/change/time
- Intra-dimensional iM, eg. growth
- Extra-dimensional eM or 4<sup>th</sup> D Time, eT
- iM is **NOT** the same as eM
- Outside general gTime or Day/Night
- Outside object or specific 3-D
- Outside movement could also be specific or general

# 4<sup>th</sup> Dimension is Time

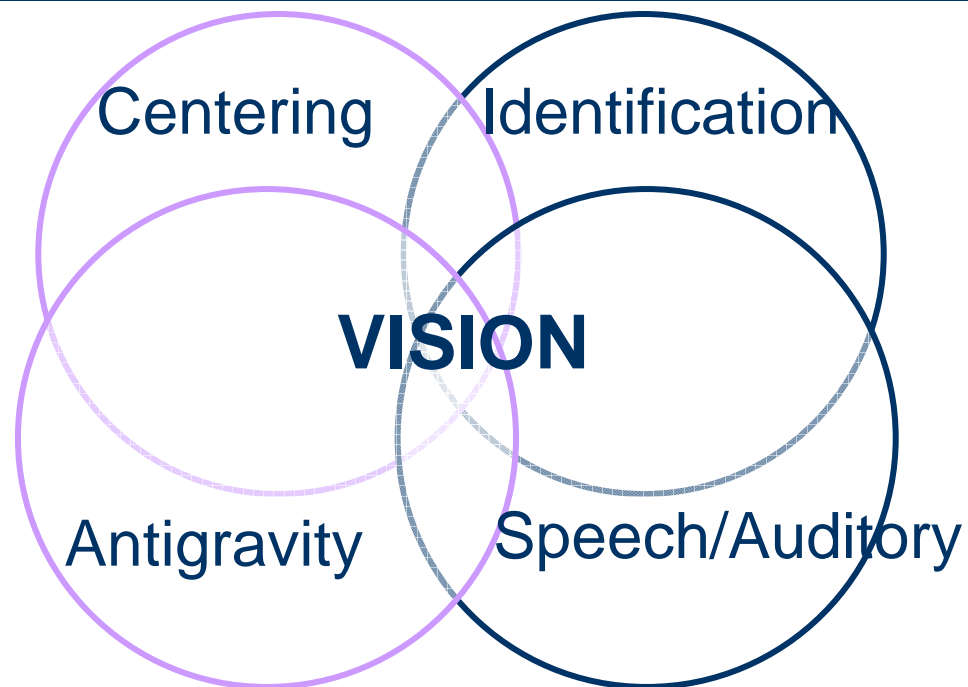
- Time is the 4<sup>th</sup> D or eT or eM
- Outside Time is from earth's rotation and spin which is general movement, eT
- Internal time/clock is circadian rhythm from retina to SCN to pineal gland (melatonin). iT should match eT.
- Anything with Choice is capable of movement
- Movement reflects an internal Choice which is 4<sup>th</sup> D



# 4<sup>th</sup> Dimension is Time

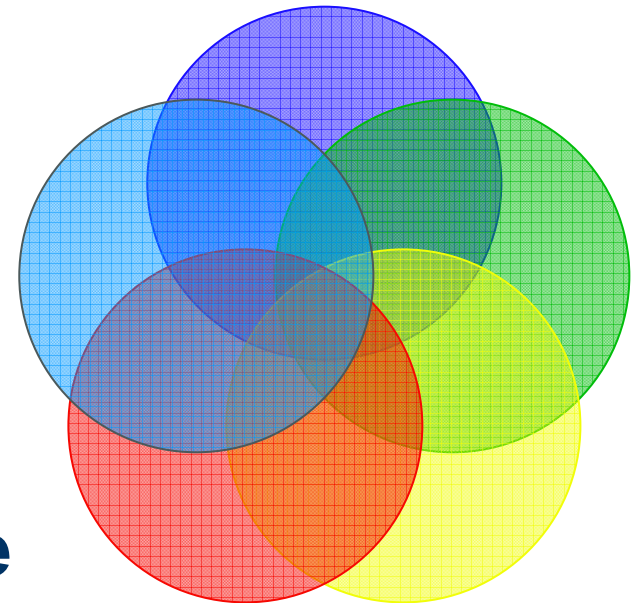
- **Postural stability is needed before any act of movement**
- **Change of light/dark is an ocular sense of gTime (general)**
- **All 4-D are subject to Physical Laws**
- **Definition of Physical means Space-Time**
- **Time is detected through Movement, light/dark, memory**

# Skeffington's Circles



# 6 W's 1 H

- **Who, What, Which, Where? 3-D**
- **When? 4-D**
- **How and Why? Frontal lobe**
- **What is 5<sup>th</sup> D? Is space the final frontier?**
- **Human Development**



# 5<sup>th</sup> Dimension

- **What is a natural progression and yet independent of the 4 dimensions?**
- **Is it non-physical? Meta-physical? Or spiritual?**
- **Humans are 4-D beings, we can only have an image of the 5<sup>th</sup> dimension. It is our glimpse of True Spirituality, based on our perceived spirituality**

# 5<sup>th</sup> Dimension

- **The 5<sup>th</sup> D has been perpetuated by Eastern religions and philosophers ever since the beginning of human race**
- **Strongly rooted in the perceived notion of Truth, Justice, Humility, Kindness, Mercy, Patience, and Love**
- **These Values suffer similar (false) illusion when presented at a lower dimensional level**

# Behavioral Science

- **All human behavior is determined by perception of dimensional stability**
- **5<sup>th</sup> D is the ultimate goal of human existence**
- **Distortion of 5<sup>th</sup> D is the result of dysfunctional perceptual blockage at the lower dimensions leading to a false sense of Value**

# Behavioral Science

- **Thoughts are the basis of Choice, driven by Meaning, stored in Memory, sealed with Emotion, linked back to Thoughts**
- **Meaning is the perceived Worth or Value of an object or event**
- **Value is the Matching of Thoughts with Emotions of the Person**
- **2 Values at work: Physical and Spiritual also known as intraD and extraD**

# Neurology

- **Sensory or Motor**
- **Voluntary or Autonomic**
- **Electrical, Magnetic, Structural, or Chemical**
- **Vision or Auditory**
- **Mind or Brain**
- **Dualistic or Holistic**



## Neurology

- Cerebrum
- Limbic system
- Basal Ganglia, Mid brain, Brain stem, Cerebellum
- Right/Left
- Posture/Gravity

## Behavioral Science

- Thoughts/Vergence ranges/Memory
- Emotion/Light/Memory
- Movement/Change/Memory/ANS/Saccades/Pursuits
- Specific/General/Magno/Parvo
- Emotional state/Phoria/EOMs/Retina

**\*This is not to be taken as a fixed nor exhaustive relationship.**

# Mind or Brain

- **Thoughts and Emotions**
- **General and Specific**
- **Static and Kinetic**
- **External and Internal**

# Human Senses in Behavior

- **Space-Time perception of all senses**
- **Ears are best for detecting Time/Movement and Meaning**
- **Eyes are best for overall perception**
- **Neck is to match/confirm the perception of Time/Movement between Ears and Eyes**
- **EOMS are related to neck muscles for postural stability and Movement/Time**

# Vision is Dominant

- **Sensory and Motor**
- **Linked to Occipital, Temporal, Parietal, Frontal, sub-cortical, SCN, brain stem, etc.**
- **Main purpose is to integrate 4-D with all the other senses**
- **A neural connection between neck muscles and EOMs and retina? Head movement with visual field restriction? Neck injury with field loss without EOM or nerve involvement? Childhood strabismus?**

# Vision is Dominant

- Retina can detect 1-D to 4-D
- Flicker of light from a faint point source
- Centre ON-OFF surround
- Orientation and Directionality is specific movement detector at V1
- 3-D is a combination of retina, IOMs, EOMs
- 4<sup>th</sup> D through circadian rhythm
- VT is an attempt to restore 4-D ability

# Vision Sense

- **Retina, EOMS and IOMS are also 4-D sensors**
- **Rx are Space distorters**
- **Phoria/Cover Test are postural indicators, match between eyes/ears with gravity**
- **Vergences are changes in Thought/Emotion processes especially Choice, as dictated by ANS. Can be over-ridden by voluntary system**
- **Dissociating prisms are Time splitter**

# Vision Sense

- **Eye Preference/Dominance is an indicator of brain laterality in processing info**
- **Magno/Parvo indicates specific/general system of the eyes. Needs to be closely matched/linked to the parietal, temporal and frontal lobes**
- **Colour is a **physical** quality (4-D) affecting the Thought process through direct influence of Emotion**

# Harmonious Integration

- **The brain works as a single unit. Internal match of external reality**
- **Thoughts are converted to Actions through the ‘Converter’, ie. basal ganglia, mid-brain, brain stem and cerebellum, facilitated by Emotion**
- **ANS is to automate Time/Movement so as to better attain 5<sup>th</sup> D**
- **Harmonious Integration of all the brain regions result in a higher level of existence in the 5<sup>th</sup> Dimension**



# Dimensional Distortion

- Usually man-made phenomenon
- 1-D with mvt, Lasers? Telephone?
- 2-D with mvt, TV? Computer? Hologram?
- 3-D, estates, possession, food
- 3-D with mvt, robotics? Machine booth? Telephone?
- 4-D, higher level awareness of time, service, change and consequences

# Consequences of Distortion

- **Inability to harmonize the 4-D cerebral processes will lead to a deficit at the 5-D existential level**
- **Why/how is too much TV bad for kids?**
- **Artificial lighting is a distortion of Time**
- **Conflict of Values in the world leading to internal stress, poor health, arguments, fights, wars and existential destruction in a dysfunctional society**

# Holistic Concept of Existence

- **The whole is more than the sum of its individual parts**
- **The Mind is the link between 4-D and 5-D**
- **Try a mind exercise in space travel, free from physical laws**
- **Is 3-D Space still the final frontier?**

# Summary

- **Law of Existence for ALL dimensions**
- **Laws of Physics for all the 4 dimensions**
- **Law of Spirituality beyond the 4<sup>th</sup> Dimension**

# Significance

- **Moving to the next higher D level is the goal of all existence**
- **Study of the sciences should explore the movement of sub-atomic particles, atoms, molecules, virus, cells, organisms towards a higher D level**
- **Perhaps we can reclassify all things based on Dimension**

# A Thought on Human Spirituality

- There are 4 elements, Water, Wind, Earth and Fire. Ether (unproven) is regarded as the 5<sup>th</sup> element.
- If wave energy is the medium or basis of all existential dimensions, then there must be different types of energy for different spirituality
- I doubt we could ever say, God=Energy since the definition of God is **NOT** a physical entity

# Part II Anthropology

- **Behavioral science cannot be studied in isolation of anthropology**
- **Anthropology must define holism in terms of Spirit/Soul/Body and distinguish between spirit and soul**
- **Deal with dualism or false holism**
- **Capable of explaining false Mind/Brain dichotomy**

# Bibliography

- [www.en.wikipedia.org](http://www.en.wikipedia.org)
- [www.webvision.med.utah.edu](http://www.webvision.med.utah.edu)
- VTOD listserv
- **BABO Art & Science of Optometric Care  
2004, Maryland**



# Anthropology

- **Life is a paradox in a spiral. The secret understanding lies in the concept of Anthropology.**
- **For private questions, please contact me at [www.myorthok.com](http://www.myorthok.com)**