CAN SCIENCE BE EXTENDED TO INCORPORATE NORMAL, PARANORMAL AND SPIRITUAL EXPERIENCE?



Talk to Transpersonal Psychology Section Annual Conference

REFERENCES FOR FURTHER DETAILS

Worlds Apart? Can Psychical Research Bridge The Gulf between Matter and Mind?

Proceedings of SPR, Volume 59, 1-96 (2008)

Parapsychology as a Bridge between Science and Parapsychology

Christian Parapsychologist, Volume 18, 134-148 (2007)

PARAPSYCHOLOGY AS A BRIDGE

Matter

Experiment

3rd person

Science

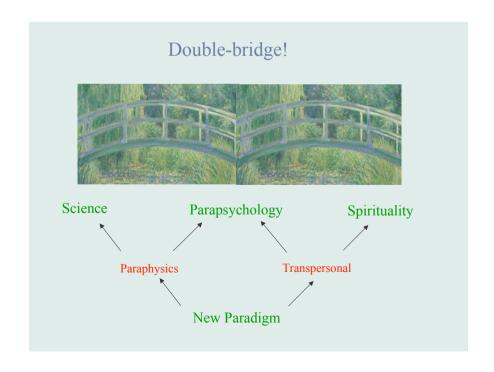


Mind

Experience

1st person

Spirituality

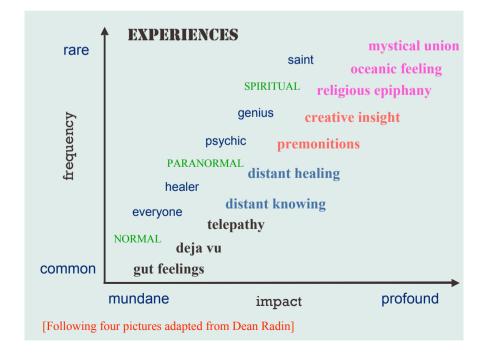


The strain of the bridge!

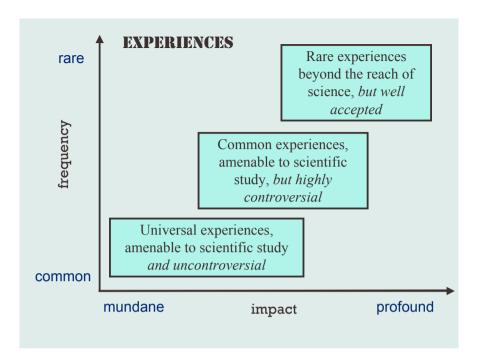


Outline

- Linking normal, paranormal and spiritual experience
- The bridge between parapsychology and spirituality
- The bridge between physics and parapsychology
- Seeking a new all-embracing scientific paradigm







"Transpersonal psychology and the paranormal"

Daniels, M. (1998). Trans. Psych. Rev. 2, 17-31.

Auras and subtle energy systems

Channelling and mediumistic experiences

Experiences of Angels

Experiences of synchronicity

Lucid dreaming

Near death experiences (NDE)

Out of body experience (OOBE)

Past life memories

Possession

Prophecy and precognition

Reincarnation experiences

Sense of Presence

Shamanic experience

Spiritual healing

Stigmata, and other bodily transformations

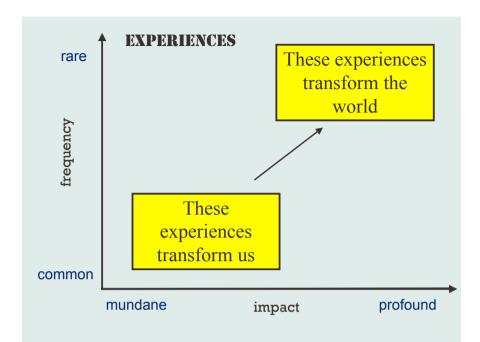
Telepathy, clairvoyance and the "siddhis"

Trance

Experiences of UFOs, alien contact or abduction

Psychokinetic phenomena

Witchcraft and Magic



Transpersonal psychology versus parapsychology

"As I was looking on, she (Saint Teresa of Avila) was raised about half a yard from the ground without her feet touching it. At this I was terrified, and she, for her part, was trembling all over. So I moved over to where she was and I put my hands under her feet, over which I remained weeping for something like half an hour while the ecstasy lasted. Then suddenly she sank down and rested on her feet and turning her head round to me, she asked me who I was, and whether I had been there all the while."

Transpersonal psychology and parapsychology overlap but use different methodologies and address different questions

WHY THE ANTIPATHY FROM THE SPIRITUAL SIDE?

- Psychic powers are a distraction from spiritual path
- *Mystical experiences are beyond science*
- Psychic experiences are insufficiently spiritual

WHY THE ANTIPATHY FROM PARASYCHOLOGICAL SIDE?

- Discomfort with spirituality
- Experiment versus experience
- Lab versus life

HOW PARAPSYCHOLOGY HELPS SPIRITUALITY

- Study of OBEs, NDEs, DBVs (brain function?)
- Evidence for survival (soul?)
- Problem with reductionism (higher physics?)

Nuns help scientists see the light with 'God Spot' scans

SCANS have shown that the bruins of nums ritcher into fill when they feel the presence of God, according to researchers. The findings coursed the The findings coursed the Interior may have evolved with a single "God Spot" that lights up it response to deeply round the opposite the spot of the

Vincent Paquette used Bucklobal Inspectic resonance Bushing to sea the brains of Bushing to sea the brains of were asked to recall the most intense mystical experience they had ever had, activity in regions of the brain that have been shown to govern feedings of peace, happiness and soft-weareness, happiness and soft-weareness, happiness are some the season of the lakes hafurchand, the

activity and blood neygen levels had surged in all least 12 regions of the brain. It suggests that the feelings that accompany velletions concrinence are linked to this increased electrical activity. We have a superiority from those taken when the rugs were asked to runember infense etholismat experiences that involved abother person. Dr Beauregard said: "Rather than there being one spell had the properties of the properties.

SIGNS OF BRIDGE CONSTRUCTION

ECOLOGICAL VALIDITY OF LAB WORK

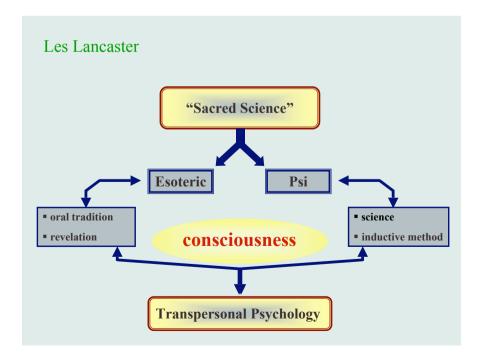
- Psi-conducive states (ganzfeld)
- Training subjects (meditation)
- Selecting subjects (creative)
- More interesting targets (emotive)
- Experimenter effect (people matter)

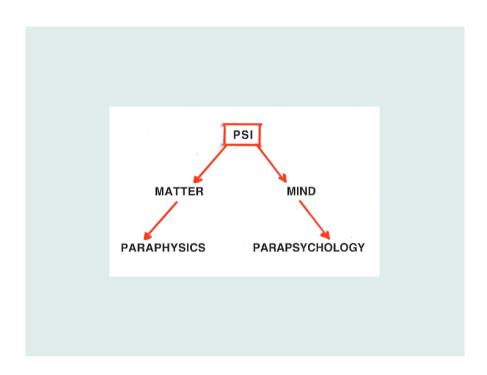
GREATER EMPHASIS ON EXPERIENCE IN PSYCHOLOGY

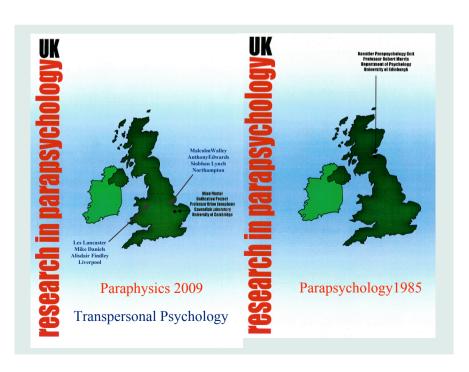
(inside view of psi)

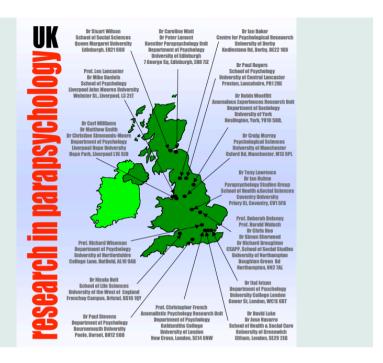
- Rising status of Transpersonal Psychology in British Psychological Association
- But split from Consciousness and Experiential Psychology

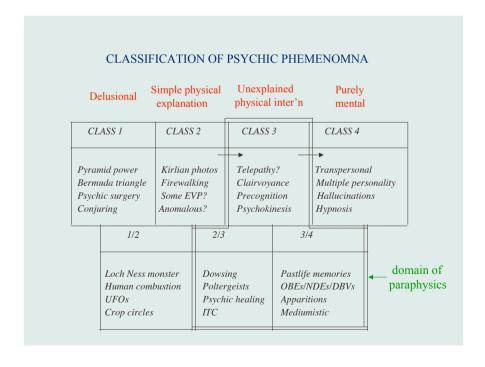
Tart (1997) "Body, Mind, Spirit: Exploring the Parapsychology of Spirituality











AVERSION OF PHYSICISTS TO PSYCHICAL RESEARCH

John Taylor (1978)

"There is a clear contradiction between science and most supernatural phenomena..... The entire edifice of physics would have to be reconstructed from the ground up if it had to embrace psi phenomena."

Gerard 't Hooft (2000)

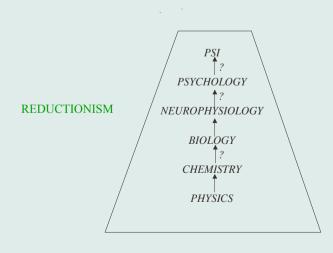
"Modern physics seems to offer leeway to the paranormal. As a theoretical physicist, I must assert most emphatically that this leeway is only apparent. There is absolutely no way one can explain the paranormal in this fashion."

Brian Pippard (1988)

"If the existence of these phenomena is doutbful, it is because the evidence is scanty and often of dubious provenance, it is not because they cannot be invoked in physical terms. They involve after all, a class of system beyond the scope of physical theory - that is to say, conscious human beings....I do not say consciousness is not at this time understood from the laws of physics - I say it cannot be so understood."

Physicists reject psi because of threat TO reductionism

Parapsychologists reject physical model because of threat OF reductionism



AVERSION OF PSYCHICAL RESEARCHERS TO PHYSICS

John Palmer (1978)

"Generally speaking, the experimental evidence suggests that ESP can occur at great distances and does not decline with distance. These findings do not fit well with most hypotheses that physical energies mediate the transmission of extrasensory information."

John Beloff (1988)

"The attempt to reconcile physics and parapsychology is misguided. Asking for an explanation of the mind-matter interaction could only lead to an endless and profitless regress."

REASONS FOR CONNECTING PSI AND PHYSICS

* Good for psychical research

"No amount of empirical evidence, no mere collection of facts, will convince all scientists of the veracity and the significance of your reports. You must provide some sort of model, you must advance bold constructs...in terms of which ESP can be theoretically understood" (Henry Margenau 1985)

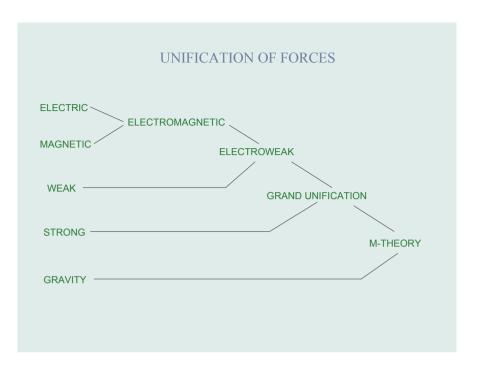
* Good for physics

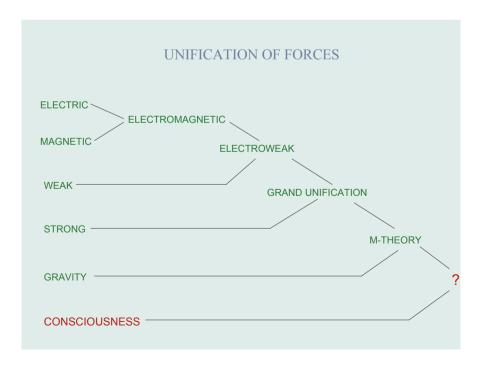
"Even if one regards the probability of psi being real as small, its significance if confirmed - would be so immense that its investigation is worth undertaking."

* Physics is already exotic enough to accommodate psi (Arthur Koestler 1972)

"The unthinkable phenomena of extra-sensory perception appear somewhat less preposterous in the light of the unthinkable propositions of modern physics."

* Interaction with physics is required





CONSCIOUSNESS IS UNIMPORTANT

John Watson (1913)

"The time seems to have come when psychology must discard all reference to consciousness; when it need no longer delude itself into thinking that it is making mental states the object of observation."

Daniel Dennett (1991)

"Consciousness appears to be the last bastion of occult properties, epiphenomena and immeasurable subjective states - in short, the one area of mind best left to philosophers, who are welcome to it. Let them make fools of themselves trying to corral the quicksilver of phenomenology into a respectable theory."

CONSCIOUSNESS IS IMPORTANT

John Wheeler

"Mind and Universe are complimentary"

Bernard d'Espagnat

"The doctrine that the world is made up of objects whose existence is independent of human consciousness turns out to be in conflict with quantum mechanics and with facts established by experiments."

Noam Chomsky

"Physics must expand to explain mental experiences"

Roger Penrose

"We need a revolution in physics on the scale of quantum theory and relativity before we can understand mind"

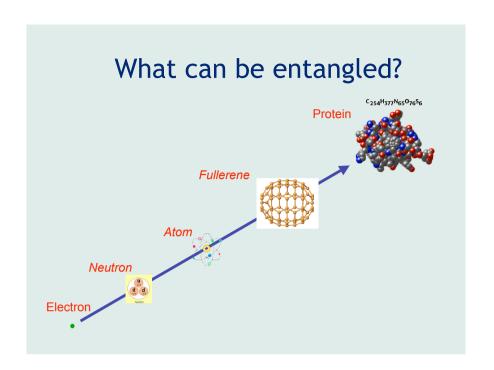
CAN QUANTUM THEORY EXPLAIN PSI?

ENTANGLEMENT

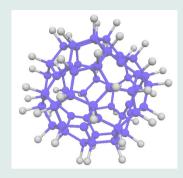
Occurs when two or more particles interact, causing their fates to become linked *outside of space & time*.

Radin "The Entangled Mind" (2005)

[Following ten pictures adapted from Dean Radin]



Current World Record:

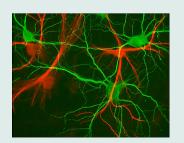


Formel: C₆₀ F₄₈
 Mass: **1632** amu!

• 108 atoms in a single object

Non-local correlations between separated neural networks

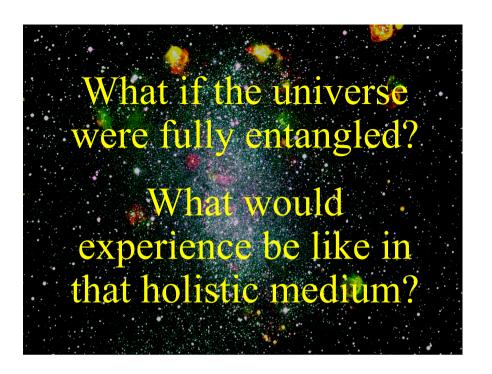
Pizzi, Fantasia, Gelain, Rossetti & Vescovi Department of Information Technologies University of Milan

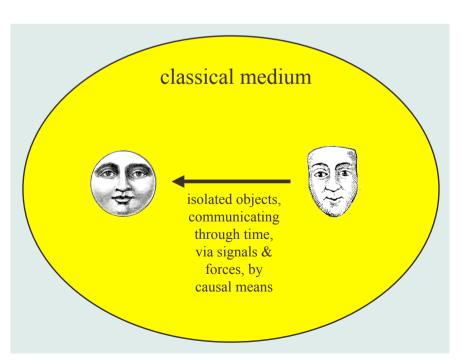






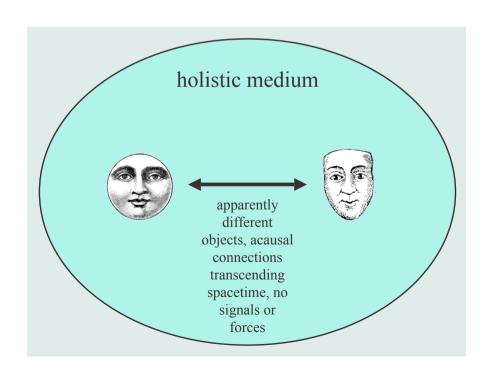
Is psi an experiential glimpse of the holistic fabric of reality?

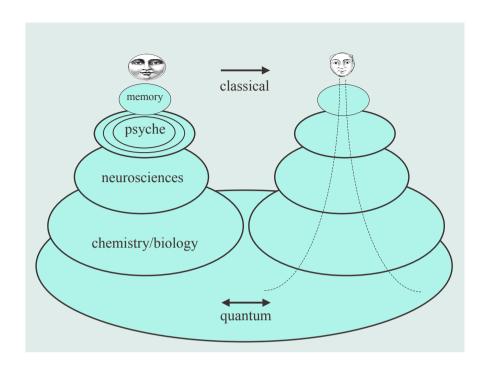






- ▲ We might occasionally feel connected to others, at a distance
- ▲ We might know things without the use of the ordinary senses
- ▲ Our intentions might reverberate throughout the entangled medium





POWER OF THE PARADIGM



Paradigms are a form of perception

Psi reveals gaps in current paradigm

What does psi imply about next one?

Science has yet to learn how to think about psi





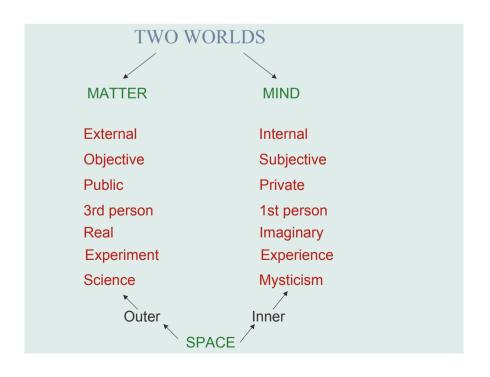
We need

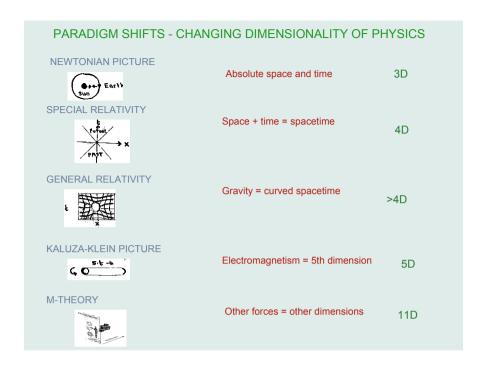
A NEW PARADIGM

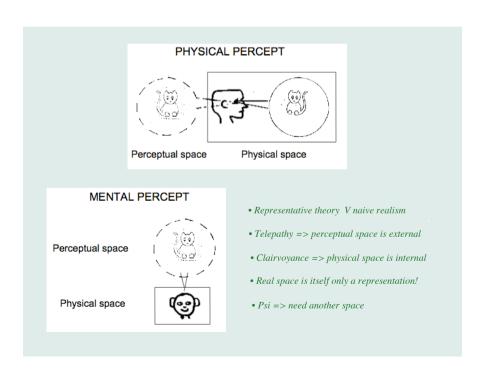
which incorporates...

- * consciousness
- * transcendence of space and time
- * mental phenomena in some radically new way

"Parapsychology is littered with hypothetical structures to explain the psi process, or some features of it, but no comprehensive theory... Either psi does not exist or psi is so fundamental that it is intimately interwoven into the very fabric of reality" (Jim Beichler 1998)



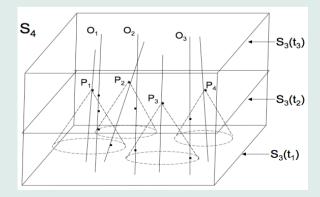




** Apparitions Hallucinations? Veridical? Collective cases? Physical trace? ** SPONTANEOUS PSYCHOPHYSICAL es ** Indeptendent Processing Proce

* Step 2

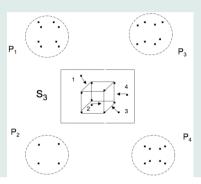
Relativity theory implies that physical world is 4-dimensional, with the objects and observers being represented by world-lines and perceptual fields being 3-dimensional. Physical reality is 4-dimensional structure and this consistently reconciles our perceptions of it.



UNIVERSAL STRUCTURE

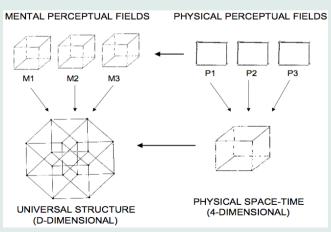
* Step 1

There exists 3-dimensional space in which are localized both physical objects and sensors through which we observe objects. Each observer has only partial information about this space but there exists 3-dimensional configuration which gives 2-dimensional projections concordant with those presented. Physical reality is 3-dimensional structure which consistently reconciles our perceptions of it.



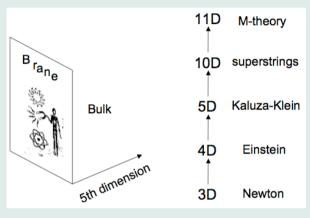
* Step 3

Space required to accommodate mental experiences must be a reality structure of more than four dimensions. This "Universal Structure" is higher-dimensional information space which reconciles our different experiences of the world. It has a hierarchical structure and incorporates physical space (past and future), as well as non-physical parts accessed only by mind.



* Step 4

Universal Structure is identified with the higher-dimensional space invoked by Kaluza-Klein paradigm. In particular, with Randall-Sundrum model, in which 4-dimensional brane embedded in higher dimensional bulk. This leads to "extended physics" which describes both standard physics and mental interactions.

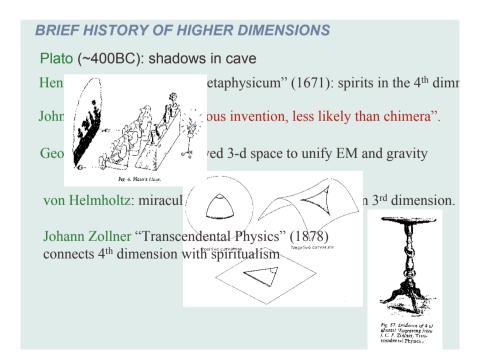


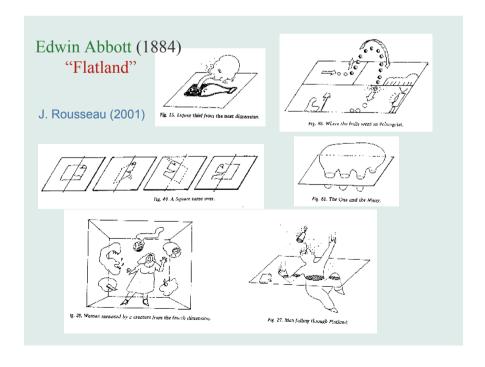
MATTER, MIND AND HIGHER DIMENSIONS

Bernard Carr

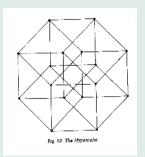


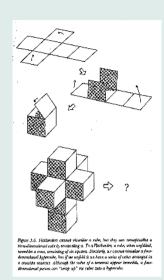






Charles Hinton (1880) "What is the 4th dimension?"



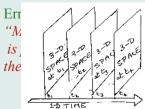


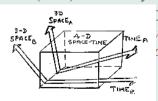
A.Schofield "Another World" (1888): God and spirits in 4th dimension. Oscar Wilde "The Canterville Ghost" (1891): lampooned 4th dimension Arthur Willink "The World of the Unseen " (1893): God in infinite-dimensional space.

H.G.Wells "Time Machine" (1894): time as 4th dimension

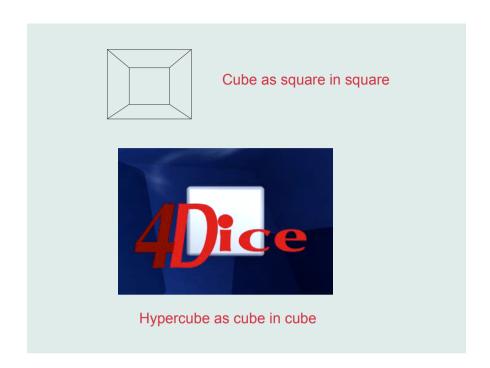
Einstein "Special relativity" (1905): eliminates absolute space and time Minkowski (1906): 4-dimensional spacetime

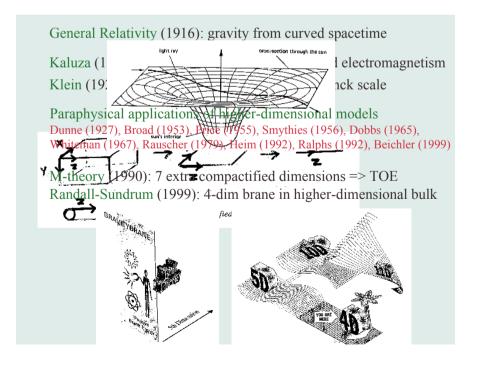
P.D.Ouspensky "The 4th Dimension" (1908): links to mystical states

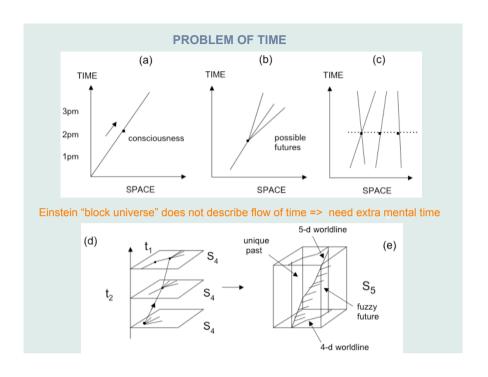


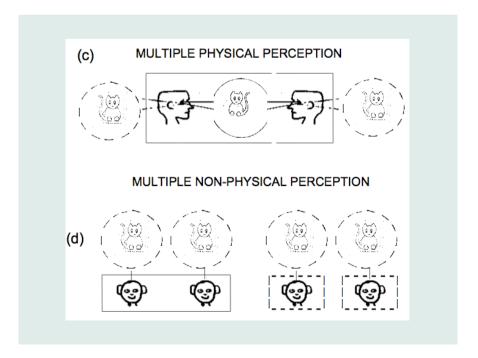


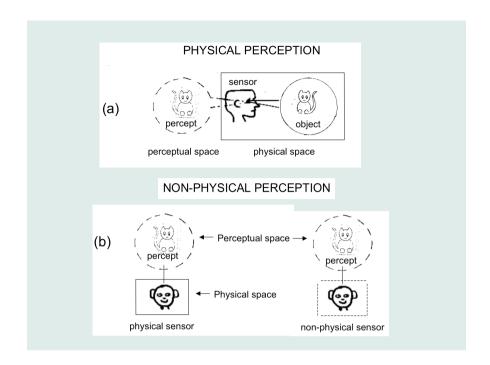
08) disagrees: vorld of what own only in

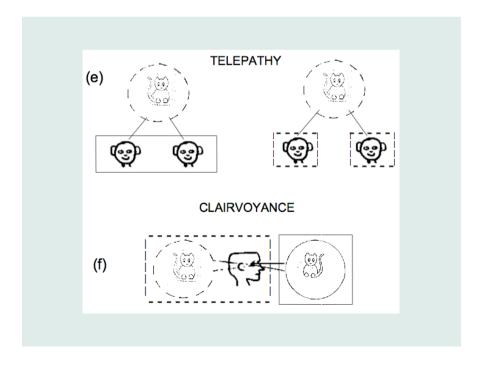


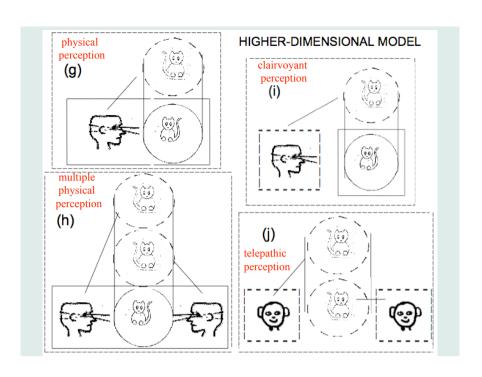


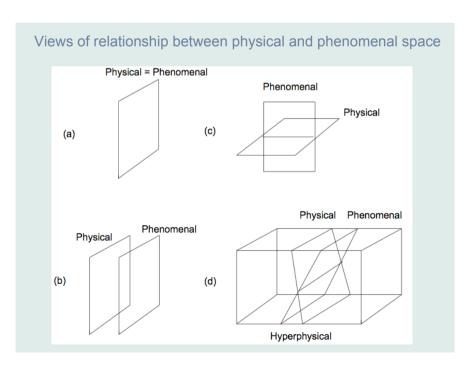


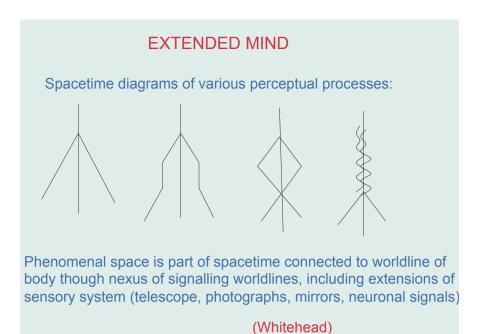


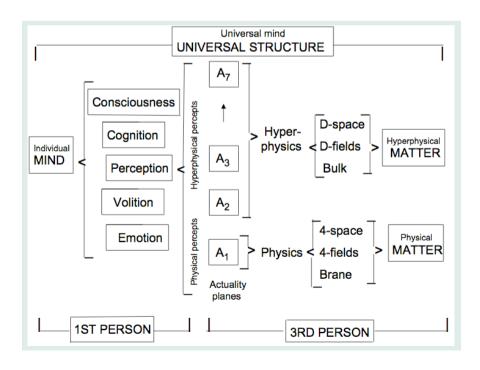


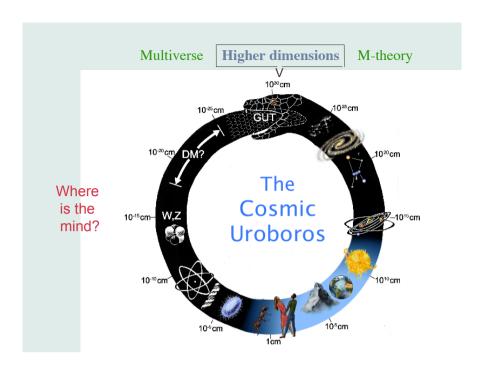












CONCLUSION

Matter

Higher dimensions



Mind

"We must learn to mentalize space and spatialize mind" Paul Brunton