

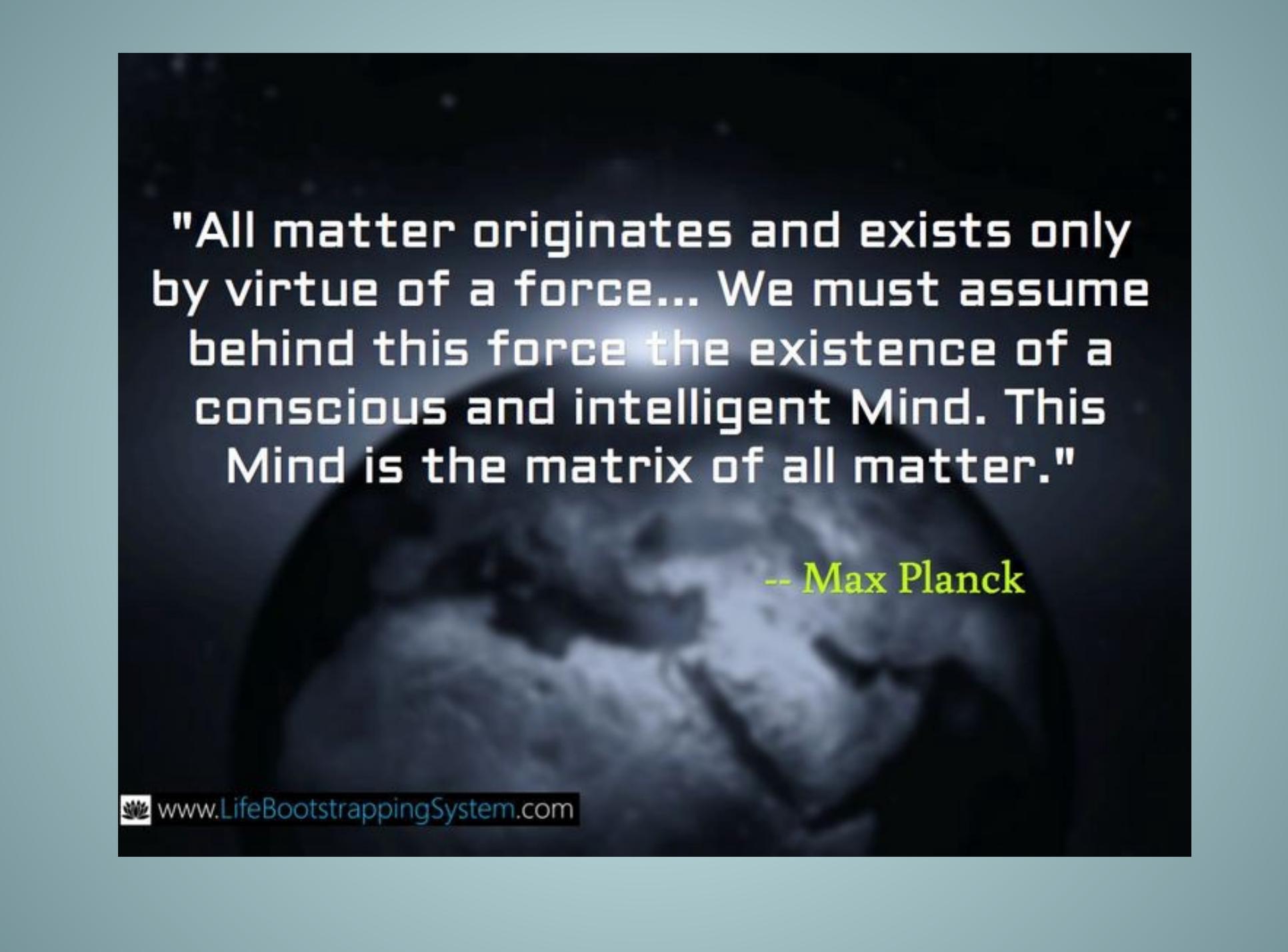
CRACKING CONSCIOUSNESS

CURRENT & CLASSIC
APPROACHES



A map of the Internet, circa 2005. Image: The Open Project

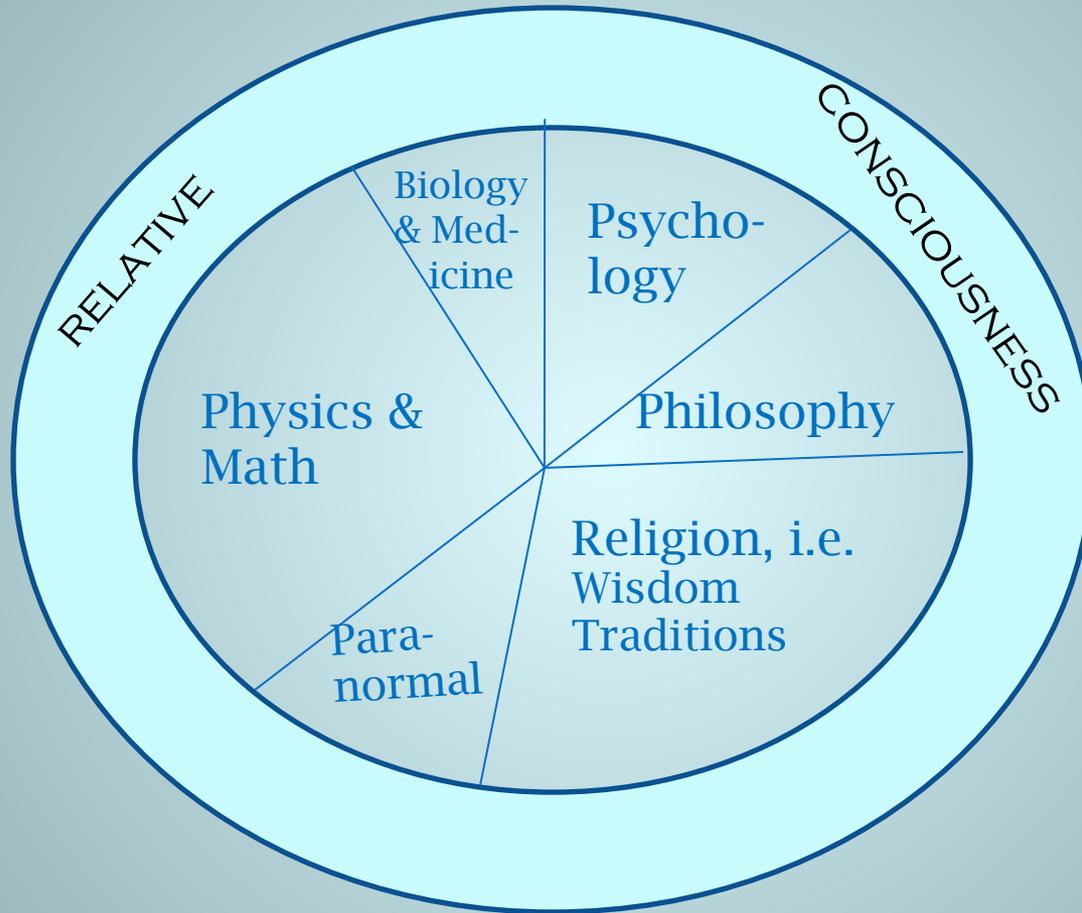
**We live on an island surrounded by a sea of ignorance .
As our island of knowledge grows, so does the shore of
our ignorance. -----John Wheeler**



"All matter originates and exists only by virtue of a force... We must assume behind this force the existence of a conscious and intelligent Mind. This Mind is the matrix of all matter."

-- Max Planck

OCEAN OF PURE CONSCIOUSNESS



CURRENT

Fred **Hoyle**

Arthur **Young**

David **Bohm**

Karl Pibram

Rupert Sheldrake

Stuart Hameroff

Ken Wilber

Fred **Hoyle**

John Wheeler

Benoit Mandelbrot

Edward Lorenz

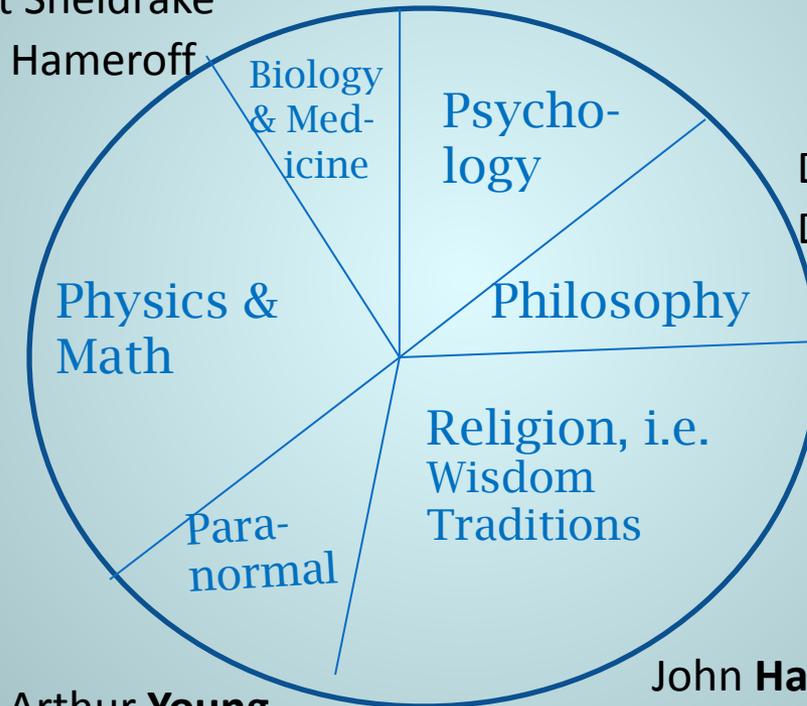
David **Bohm**

Roger Penrose

John **Hagelin**

Leonard Susskind

Christopher Fuchs



Arthur **Young**

John **Hagelin**

Douglas Harding

David Chalmers

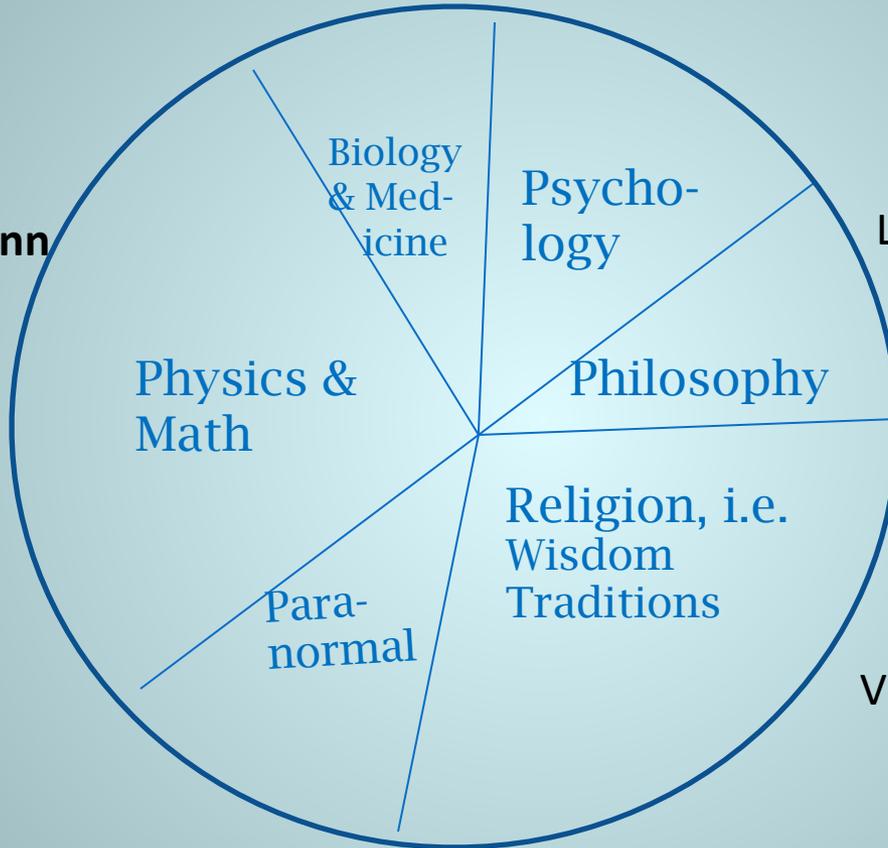
Dalai Lama

Nisargadatta

Robert Powell

CLASSIC

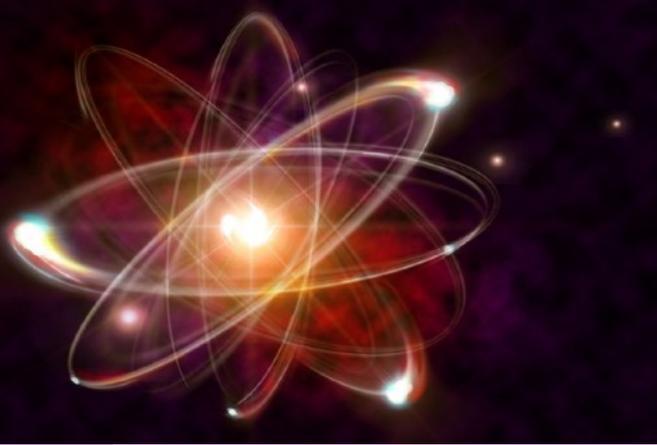
Fourier
Faraday
Ludwig **Boltzmann**
Max Planck
Albert Einstein
Niels Bohr
Dobson



Ludwig **Boltzmann**

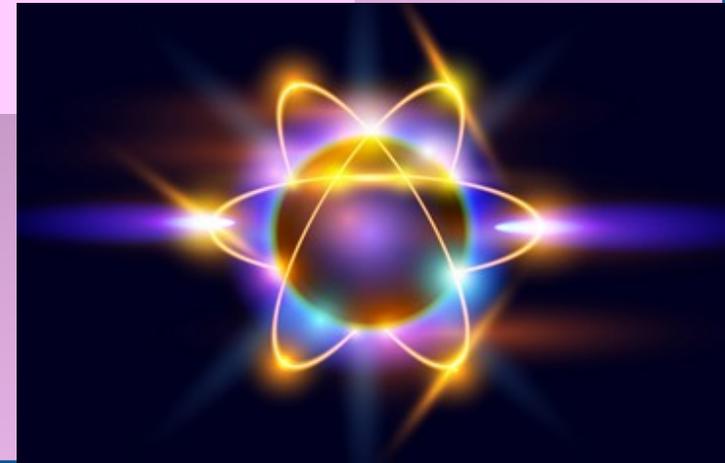
Alan Watts

Vivekananda



Physics in general is **not**
about nature;
it's about nature **exposed**
to our observations.

- Neils Bohr





There are two possible outcomes:
If the result confirms the hypothesis, then
you've made a measurement.

If the result is contrary to the hypothesis,
then you've made a discovery.

- Enrico Fermi



CRITIQUE OF SCIENCE

Young P 144 ...”what’s wrong” with science is not so much that it is materialistic and mechanistic, but that it tries to be entirely objective.

Young P 135 The criterion of falsifiability

DLama P 131 **A model of increasing complexity based on evolution through natural selection is simply a descriptive hypothesis, a kind of euphemism for “mystery,” and not a satisfactory explanation.**

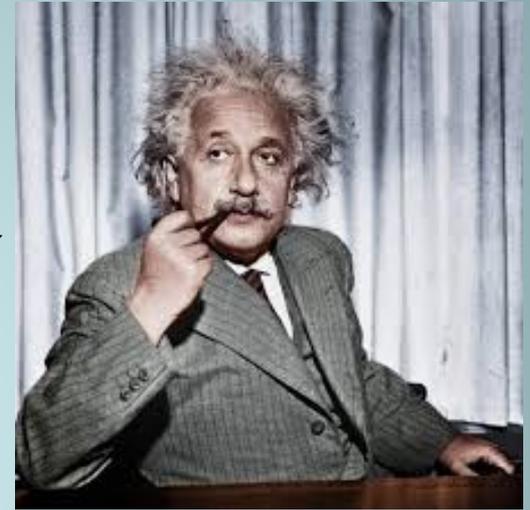
Young P 130 **Note: just this kind of evolution, the advance to more complex form, is not explained by survival.**

Young P 152 Animal instinct cannot be explained by DNA.

Young P 161 *****Our goal is the evolution of the individual person, a topic that science ignores altogether.**

Sheldrake’s ten points, “The Science Delusion”.

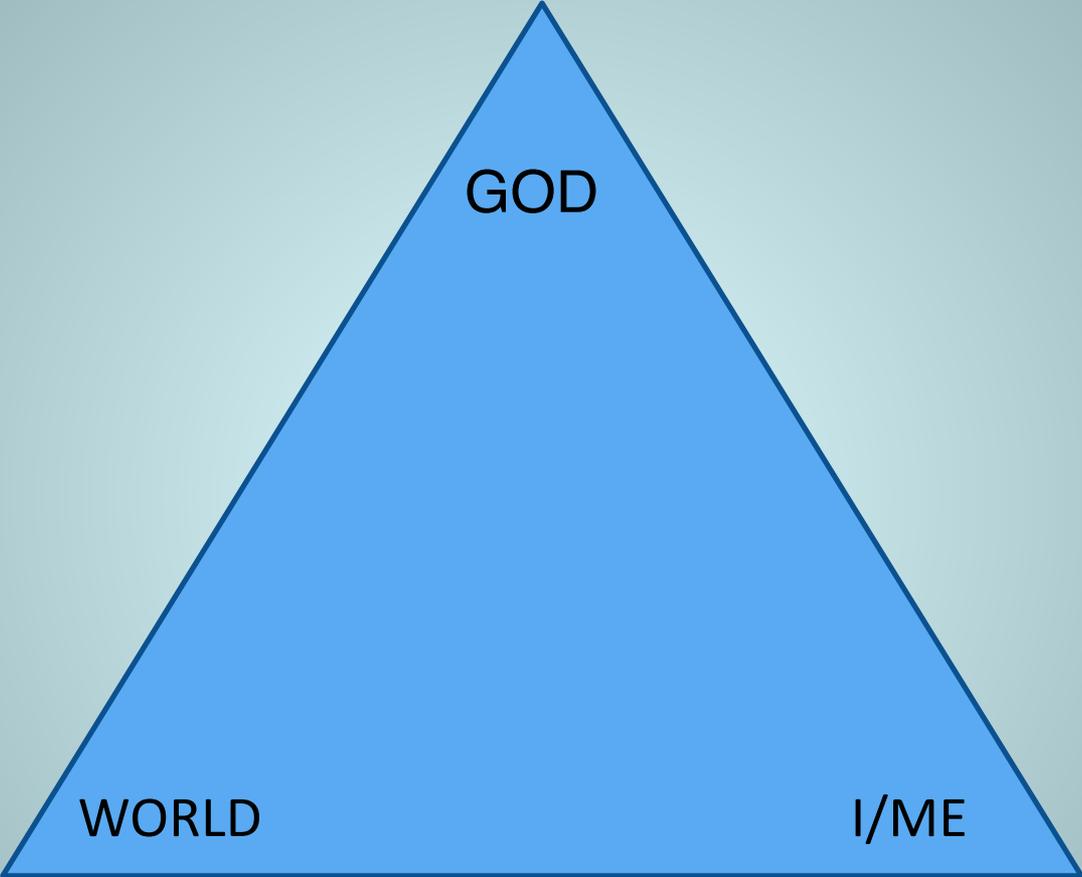
“A human being is part of the whole, called by us ‘Universe’; a part limited in time and space. He experiences himself...as something separated from the rest—a kind of optical delusion of his consciousness.



This delusion is a kind of prison for us, restricting us to our personal desires... Our task must be to free ourselves from this prison.”

Schrodinger: ...”this life of yours which you are living is not merely a piece of the entire existence, but is, in a certain sense, the whole...”

Ultimate Reality



GOD

WORLD

I/ME

“OUT THERE”

HU-MAN
BEING

THE 'EVOLUTION' OF PHYSICAL 'LAWS'

Prior to Newton, mystery or 'God' explanations prevailed.

Isaac Newton-postulated fixed laws based on materialism
>>>>reductionism. Continues today.

Einstein – replaced fixed laws with relativity.

Boltzmann- when we state physical laws we are using a series of linguistic representations of reality.

Niels Bohr-quantum collapse & probability, but observer still outside of nature. The Copenhagen interpretation.

Christopher Fuchs- a single objective reality is an illusion.
QM is a law of thought.

Young P xxviii **The older concept of a universe made up of physical particles interaction according to fixed laws is no longer tenable. ...action rather than matter is basic, action being understood as something essentially undefinable and nonobjective...**

*****The threat lies in the realization that in our universe the security of stable, permanent rules are gone forever. We are living in a dangerous and uncertain world that inspires no blind confidence. Our hope arises from the knowledge that even small fluctuations may grow and change the overall structure.**

As a result, individual activity is not doomed to insignificance.

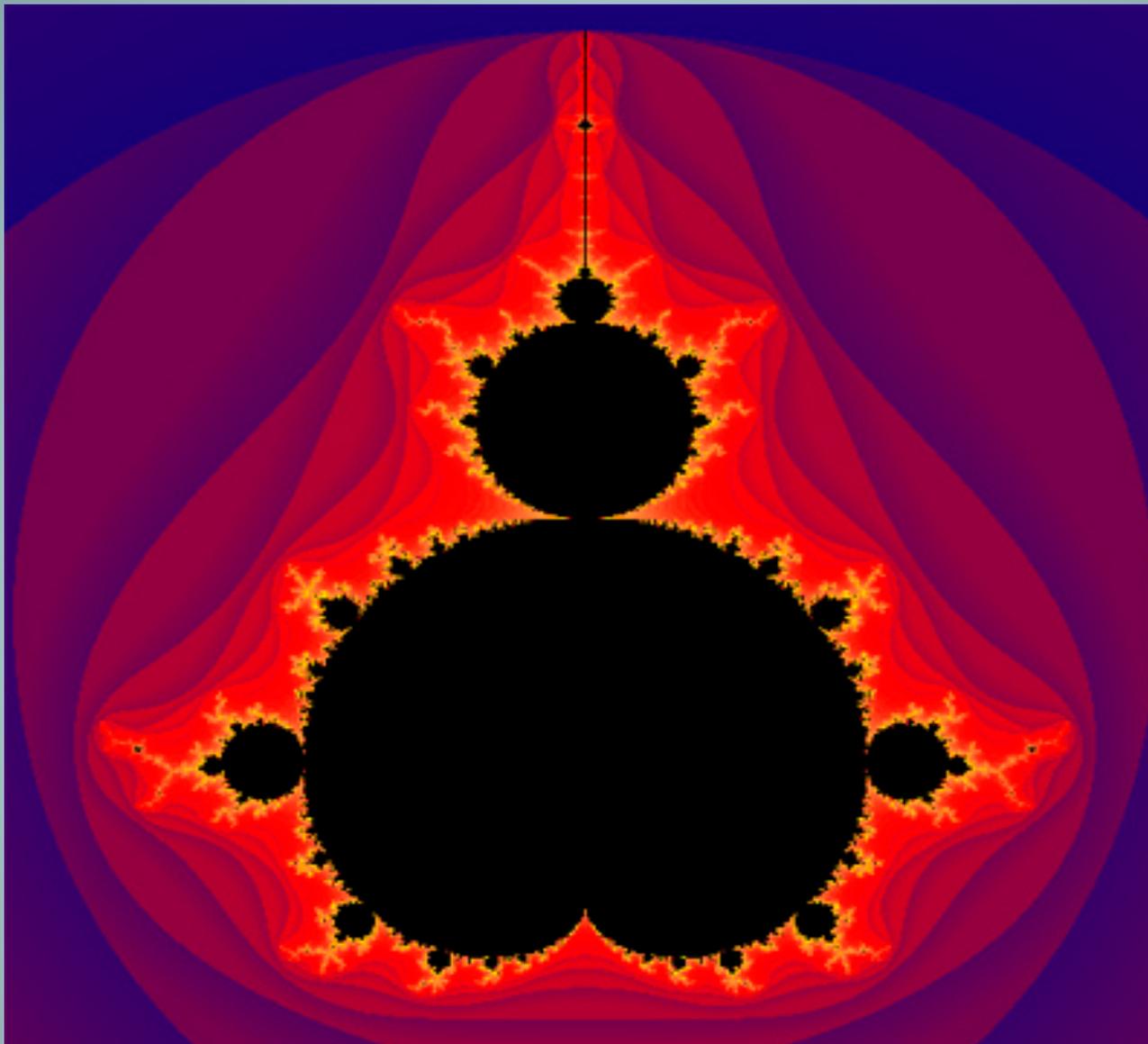
-Ilya Prigogine



ZOOMED DETAIL OF MANDELBROT SET

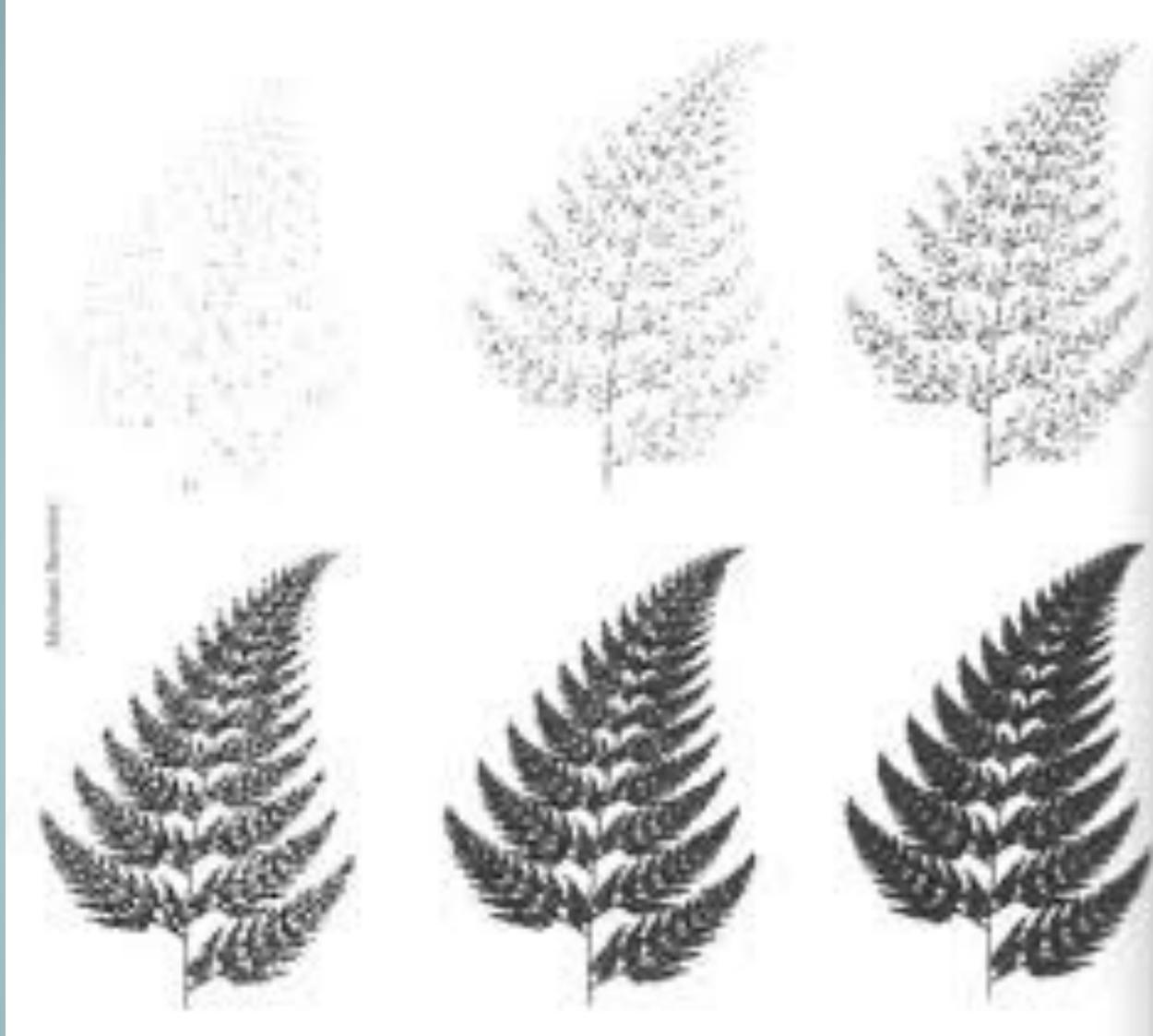


DETAIL OF MANDELBROT SET



*****“The Mandelbrot set is not an invention of the human mind: it was a discovery. Just like Mount Everest, the Mandelbrot set is just *there!*”**

– Sir Roger Penrose



FRACTAL PATTERNS IN NATURE



FRACTAL PATTERNS IN NATURE

Double armed pendulum exhibiting chaotic behavior



HOLOGRAMS DEPEND ON LASER TECHNOLOGY

More than one hologram on the same film can be stored by using different angles of projection of the laser beams.

Therefore, depending on the direction and frequency of the beam that you send through the film, a different hologram will appear.

DENSE INFORMATION STORAGE



HOLOGRAPHIC PROJECTION



HOLOGRAPHIC PROJECTION



Indra's jeweled net reaches out to infinite space. ..no jewel is in the center or the

Each jewel is at the center of the other jewels on the net.

At the same time it is at the edge in that it is itself reflected in all the other jewels



INDRA'S JEWELED NET

“Every atom was reflecting in this way, and the infinity of these reflections was reflected in each thing; each was an infinite reflection of the whole.” - *Bohm*

**Advances are made by
answering questions.**

**Discoveries are made by
questioning answers.**

– Bernard Haisch

??????????



Know Your Scientist: David Bohm

“A great many people think they are thinking when they are merely rearranging their prejudices.”

-subatomic particles are able to remain in contact with one another regardless of the distance separating them is NOT because they are sending some sort of mysterious signal back and forth, but because their separateness is an illusion.

-the ultimate nature of physical reality is not a collection of separate objects (as it appears), but rather it is an undivided whole that is in perpetual dynamic flux.

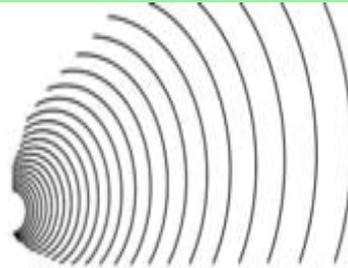
Bohm's Holomovement Theory

SPIRIT

NON-LOCAL

IMPLICATE
Spectral
ORDER

Holoflux Energy
(frequency-phase)

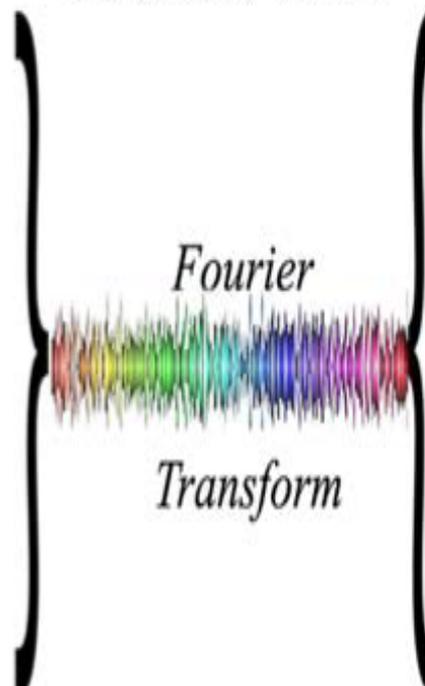


CONSCIOUSNESS

LOCAL

EXPLICATE
Space-time
ORDER

Electromagnetic Energy
(frequency-phase in space-time)

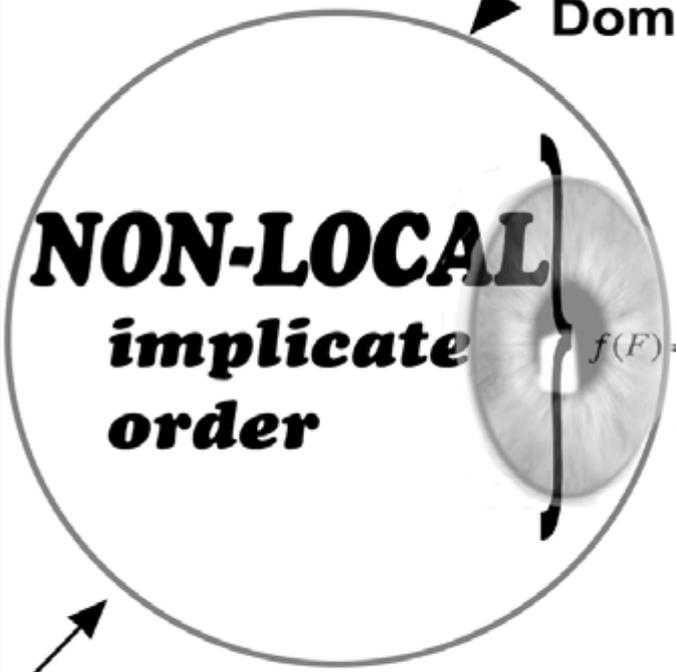


The Pibram-Bohm Holoflux Theory of Consciousness

CONSCIOUSNESS

Frequency Domain

Space-Time Domain



NON-LOCAL
implicate
order

$$f(F) = \int_{-\infty}^{+\infty} x(t)e^{-j2\pi Ft} dt$$

Fourier Transform

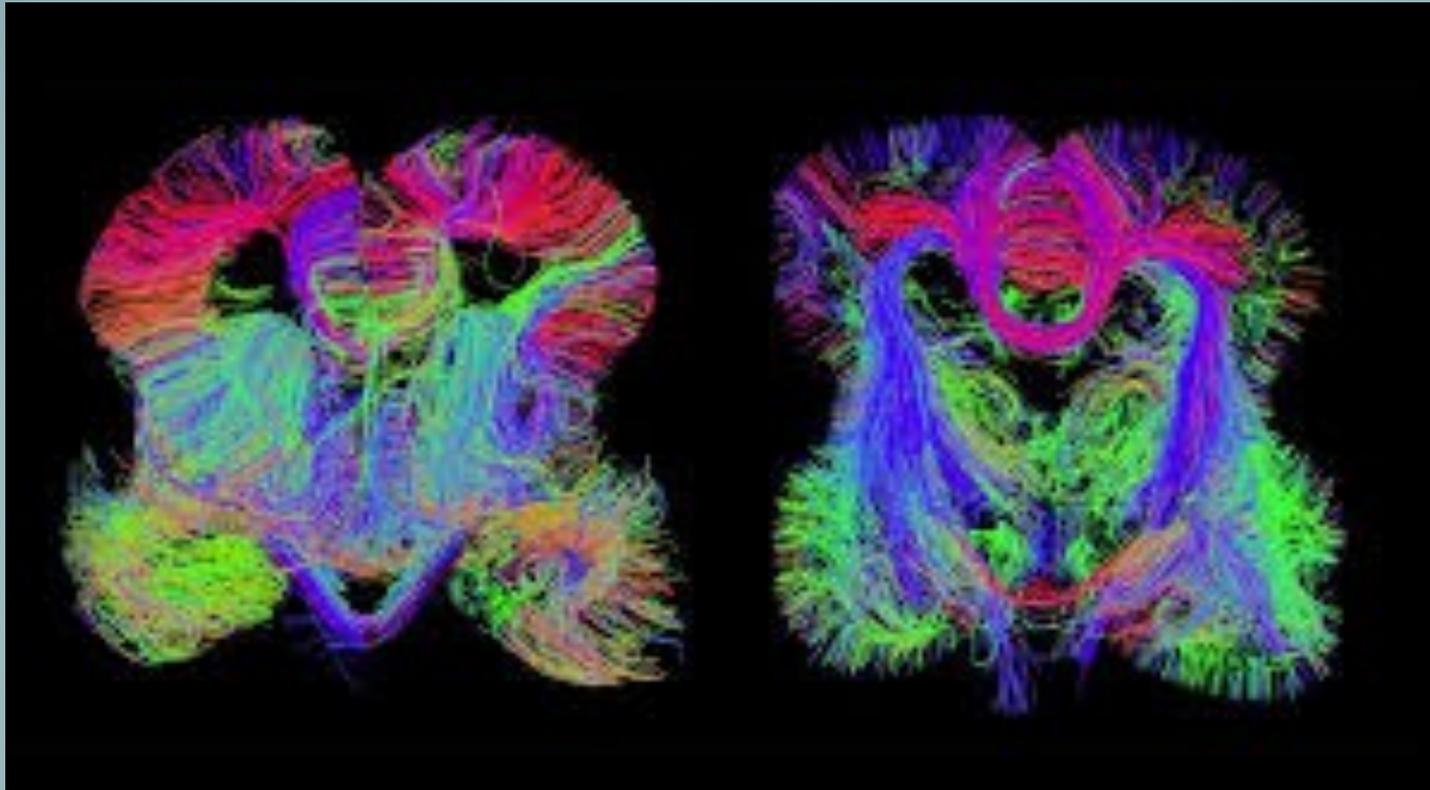


LOCAL
explicate
order

Holosphere
(Quantum Black Hole)

Inertia

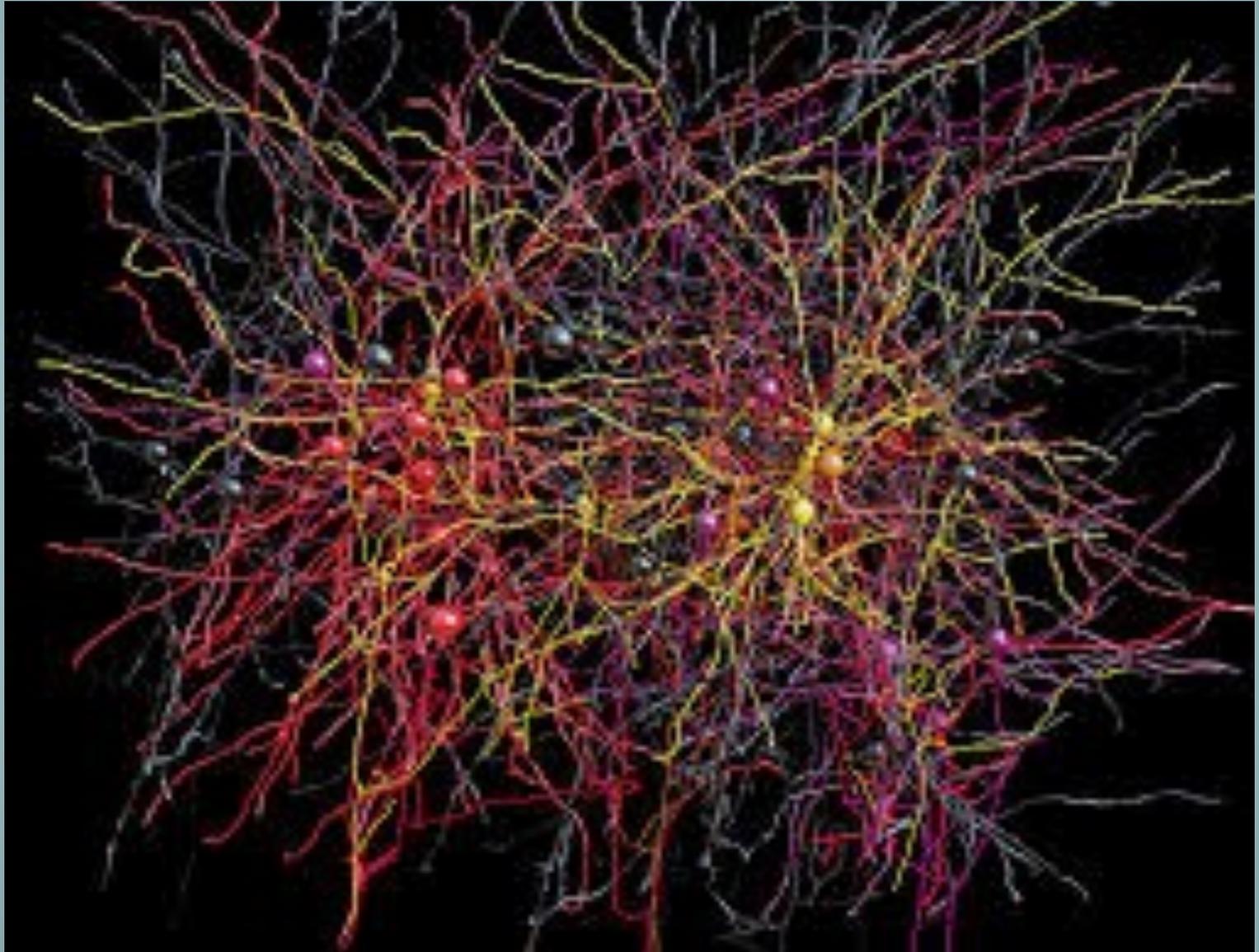
Planck's Constant
Event Horizon = 1.616×10^{-35} m.



Pribram has also become persuaded by the holographic nature of reality.

Memories are encoded not in neurons, or small groupings of neurons, but in patterns of nerve impulses that crisscross the entire brain...

NEURAL NETWORK





DISSIPATIVE STRUCTURES IN NATURE

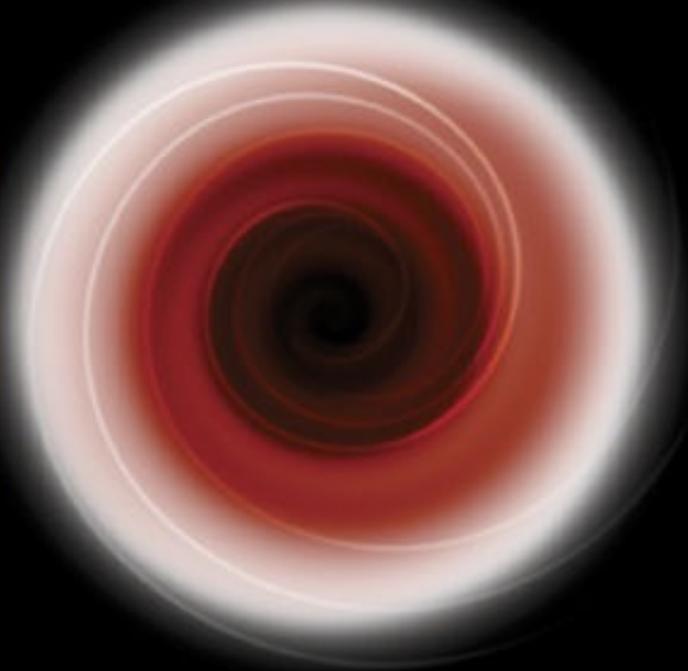




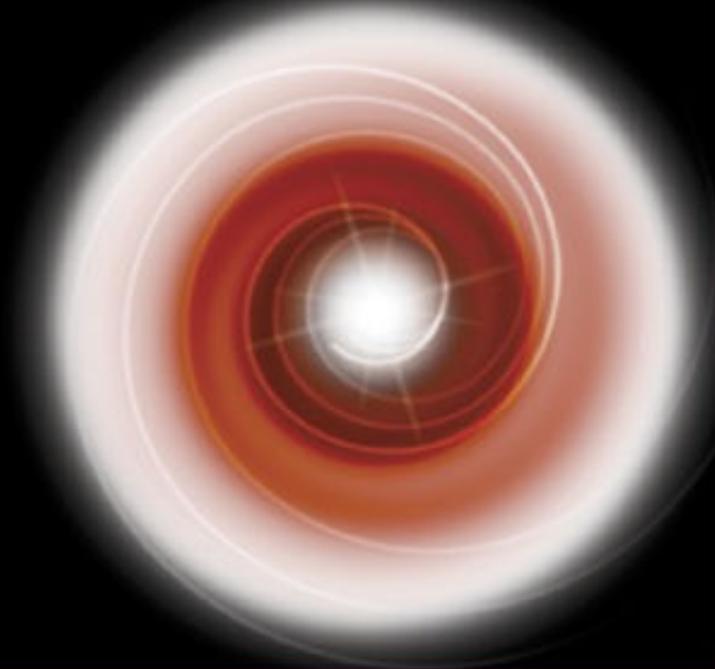
DISINTEGRATION OF COMPOUND BODY BY PIXELATION

GENESIS OF A BLACK HOLE

Black Hole X-ray Nova

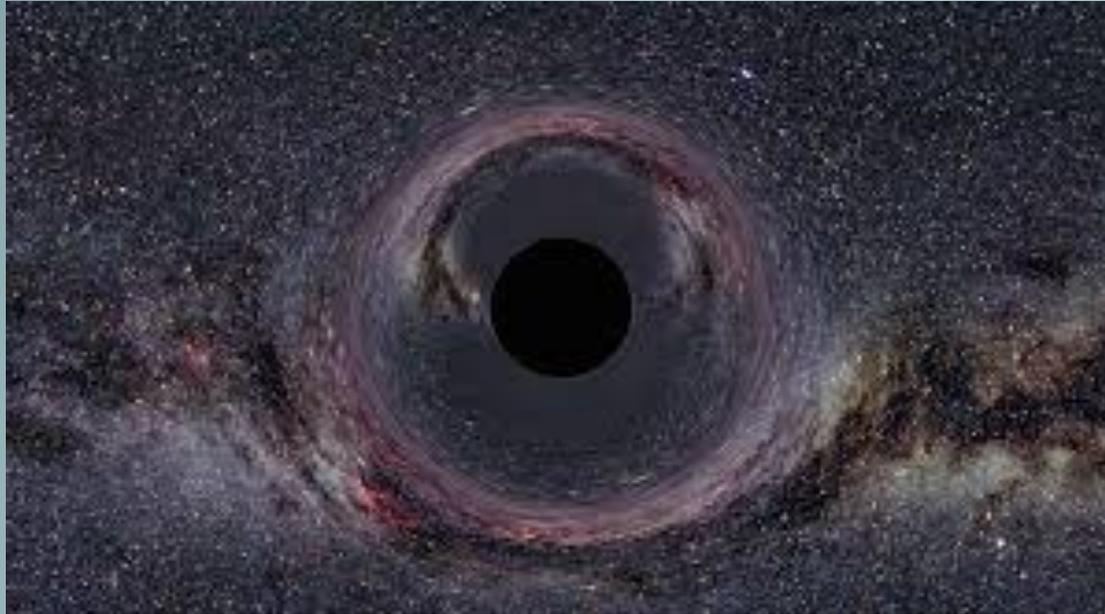


Neutron Star X-ray Nova



A HOLE IN SPACETIME





Gravity is
NOT a force,
but a curvature.

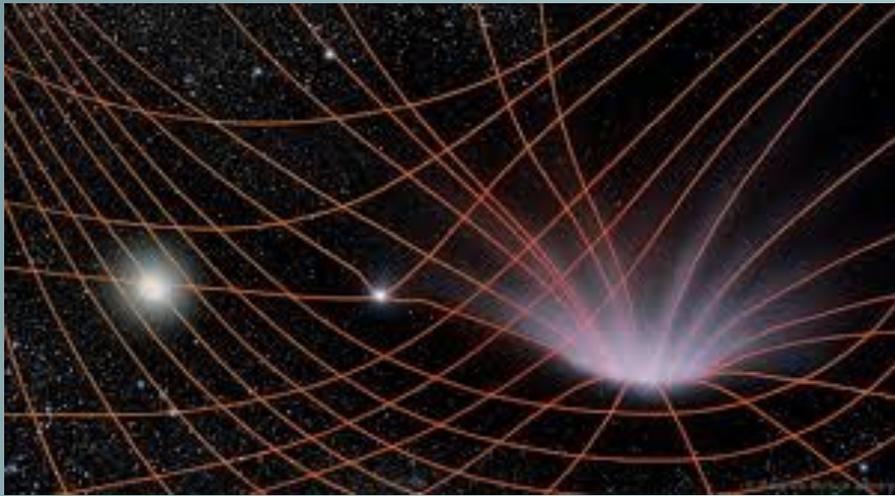
Black holes are
discovered by
lensing.





Accretion disks







THE MOST CREATIVE FORCE IN THE UNIVERSE



"The black holes of nature are the most perfect macroscopic objects there are in the universe:

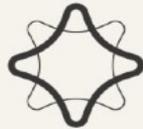
the only elements in their construction are our concepts of space and time."

Nobel Prize winner Subrahmanyan Chandrasekhar

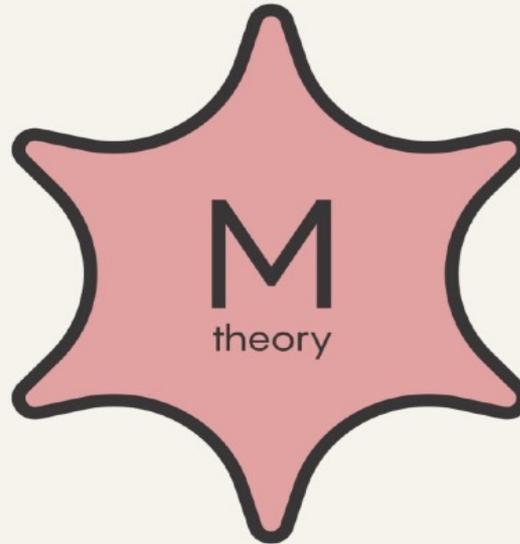
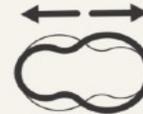
Type I
string theory



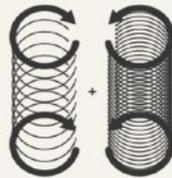
Type IIA
string theory



Type IIB
string theory



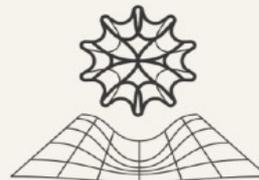
SO(32)
Heterotic
string theory



$E_8 \times E_8$
Heterotic
string theory

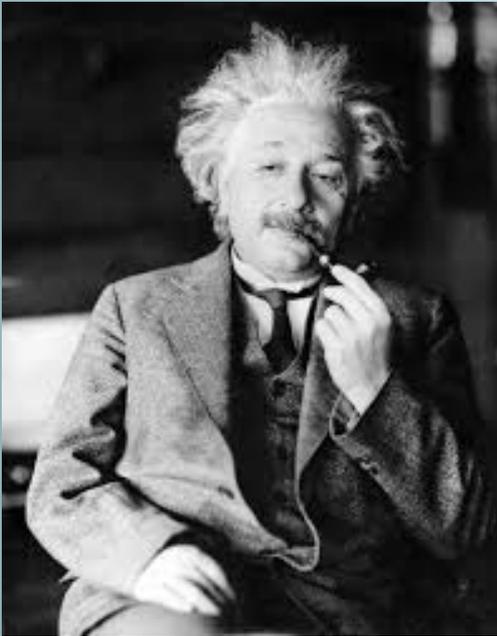


11-Dimensional
Supergravity
particle theory



TIME

Is a property of space, not a separate phenomenon



“People like us, who believe in physics, know that the distinction between past, present, and future is only a stubbornly persistent illusion”.

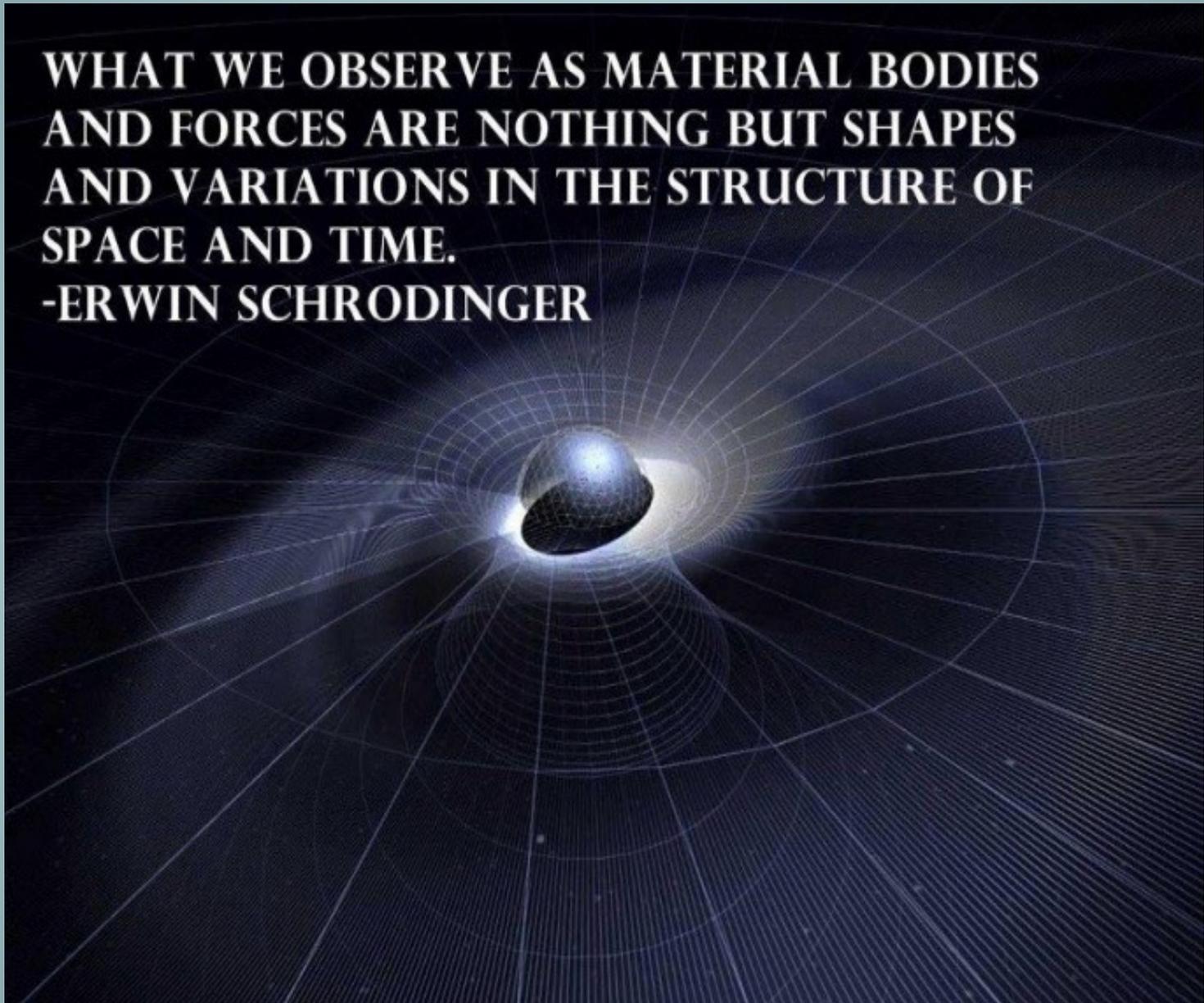
SPACE IS 4D

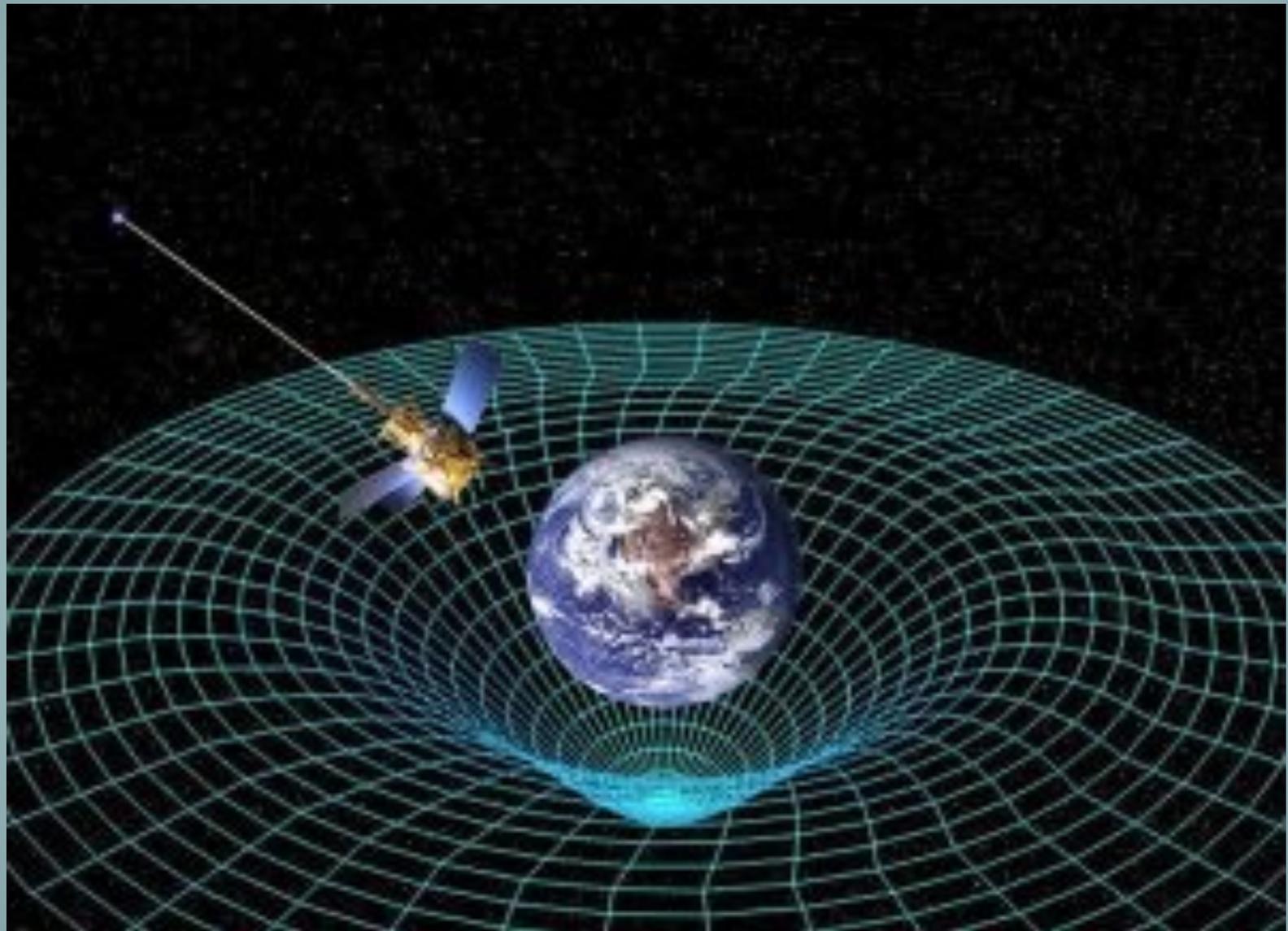
Wheeler The essence of Einstein's theory of gravity, is:

"Matter tells space how to warp. And warped space tells matter how to move."



**WHAT WE OBSERVE AS MATERIAL BODIES
AND FORCES ARE NOTHING BUT SHAPES
AND VARIATIONS IN THE STRUCTURE OF
SPACE AND TIME.
-ERWIN SCHRODINGER**





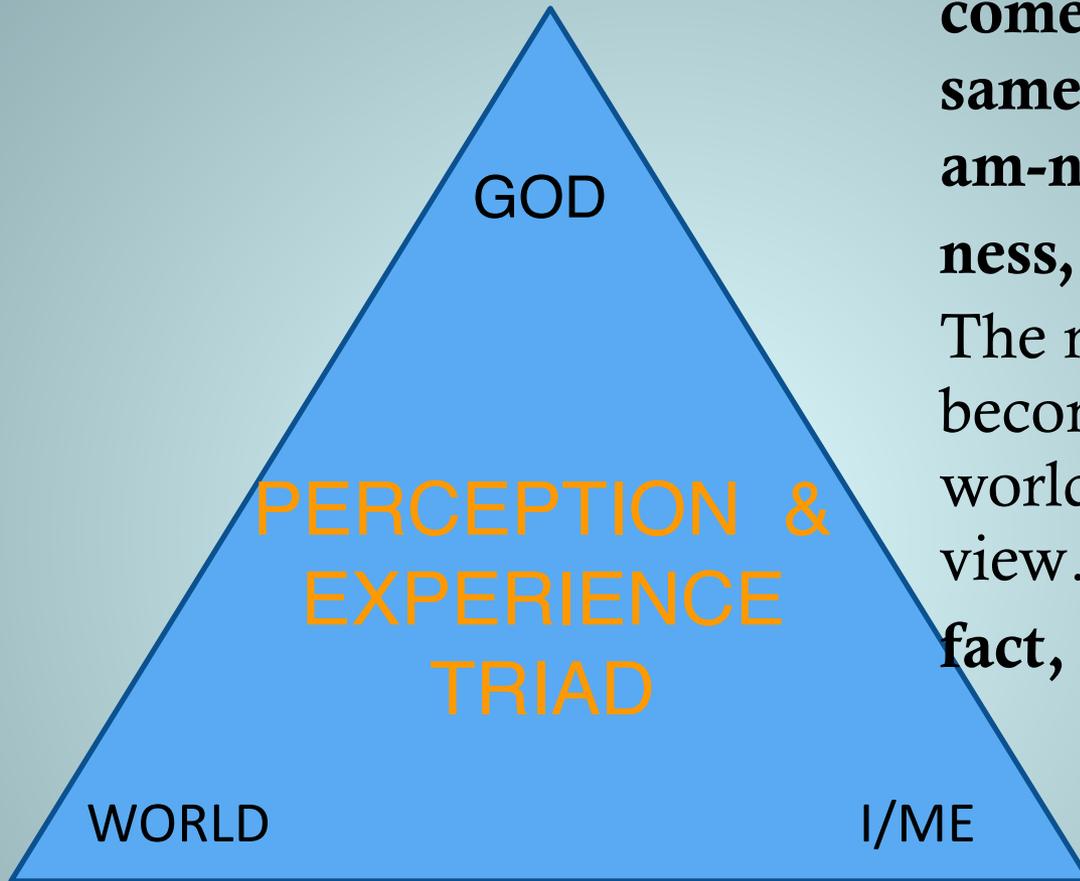
Space is distinction in objects.
Time is distinction in events.
Without limits of space and time,
I am everywhere.

-Yogatmananda

Clinging to the false makes the true so difficult to see.
Once you understand that
the false needs time and what needs time is false,
you are nearer Reality...

IAT P 316 NISARGADATTTA

Ultimate Reality



PWF P 190 ...**the world comes into being at the same time that the “I-am-ness,” the Being-ness, comes into being.** The moment one becomes conscious, the world comes into view... **The two are, in fact, one.**

“OUT THERE”

HU-MAN
BEING

SPONTANEOUS GENESIS OF LIFE ON EARTH

“The probability that at ordinary temperatures a macroscopic number of molecules is assembled to give rise to the highly ordered structures and to the coordinated functions characterizing living organisms is vanishingly small.

The idea of spontaneous genesis of life in its present form is therefore highly improbable, even on the scale of the billions of years during which prebiotic evolution occurred.” -Ilya Prigogine

PARTICIPATION

...the epoch of certainties and absolute oppositions is over. Whatever we call reality, it is revealed to us only **through the active construction in which we participate.**

- Ilya Prigogine

Wheeler's "participatory universe,"
there was no universe until the rise of consciousness to perceive it. That is, the universe is brought into existence by the act of observing it.

He coined the term **"participatory anthropic principle"**
for his version of the anthropic principle, i.e.,
observers are necessary to bring the universe into being.



EVOLUTION & INVOLUTION

Hoyle P 244 ...unintelligent selection is only too likely to produce an unintelligent result.

Hoyle P 242 We have seen that life could not have originated here on the Earth. Nor does it look as though bio evolution can be explained from within an Earthbound theory of life. **Genes from outside the Earth are needed to drive the evolutionary process.**

*Om Purnamadah Purnamidam Purnat Purnamudachyate
Purnasya Purnamadaya Purnamevavashisyate*

FILLED WITH SPIRIT ARE THE THINGS
ALL THE THINGS THAT WE CAN SEE.
FILLED WITH SPIRIT ARE THE THINGS
ALL THE THINGS THAT WE DON'T SEE.
IN EVERYTHING SPIRIT FLOWS
FROM SPIRIT COMES ALL THAT IS
YET SPIRIT IS STILL THE SAME
IT REMAINS THE SAME
IT'S STILL THE SAME-AND YET, THE SAME.