Religion – Science: Still the most important challenge to dialogue today
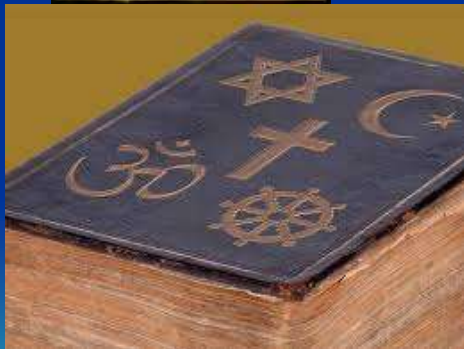
Religion Spirit ⟷ **Science Reason**

Red States
Fundamentalisms

Money & Military

Blue States
Cynicism & Hubris
Homogenization
Rule by Bean-Counters
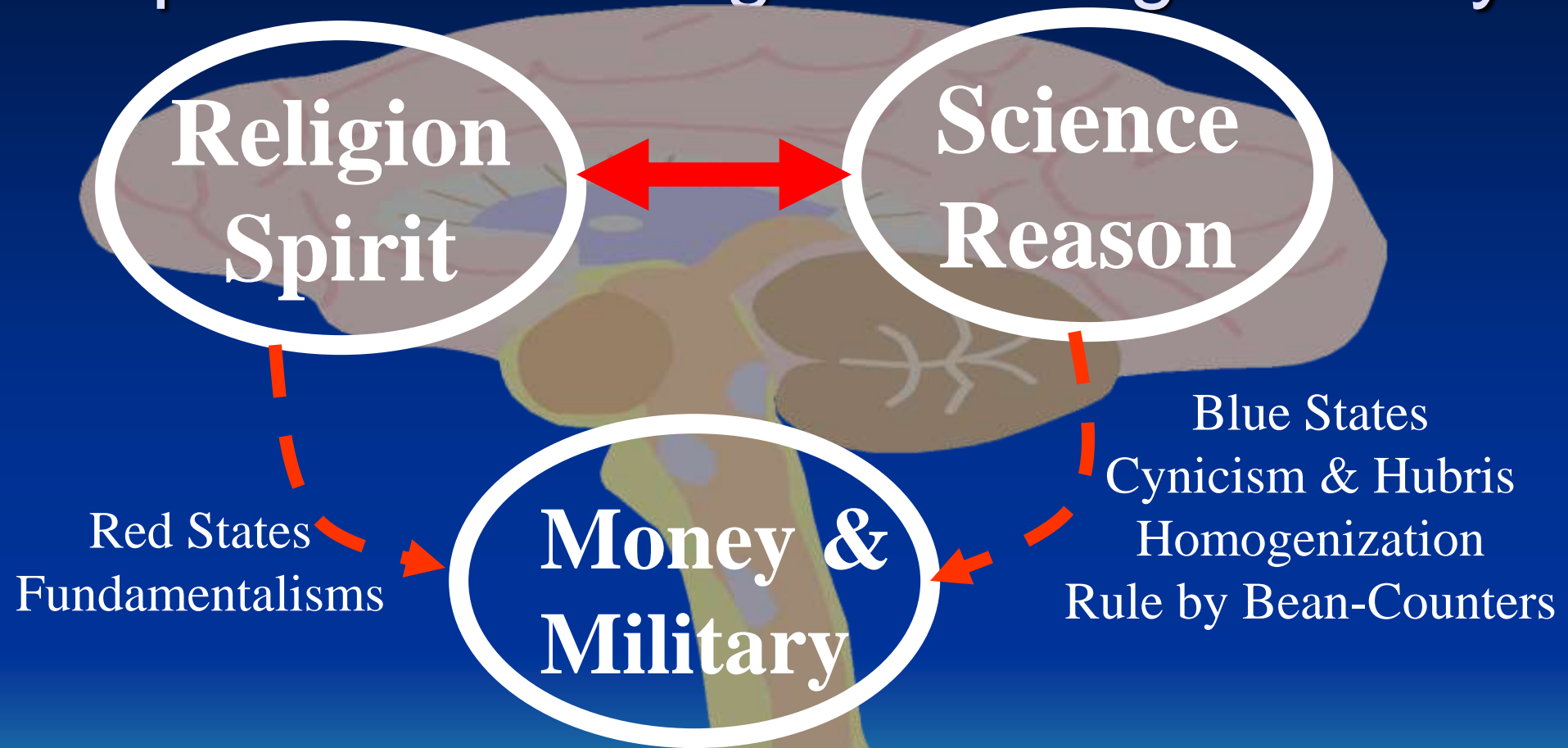
The task: remember Greeley's data, and Build on Teilhard de Chardin

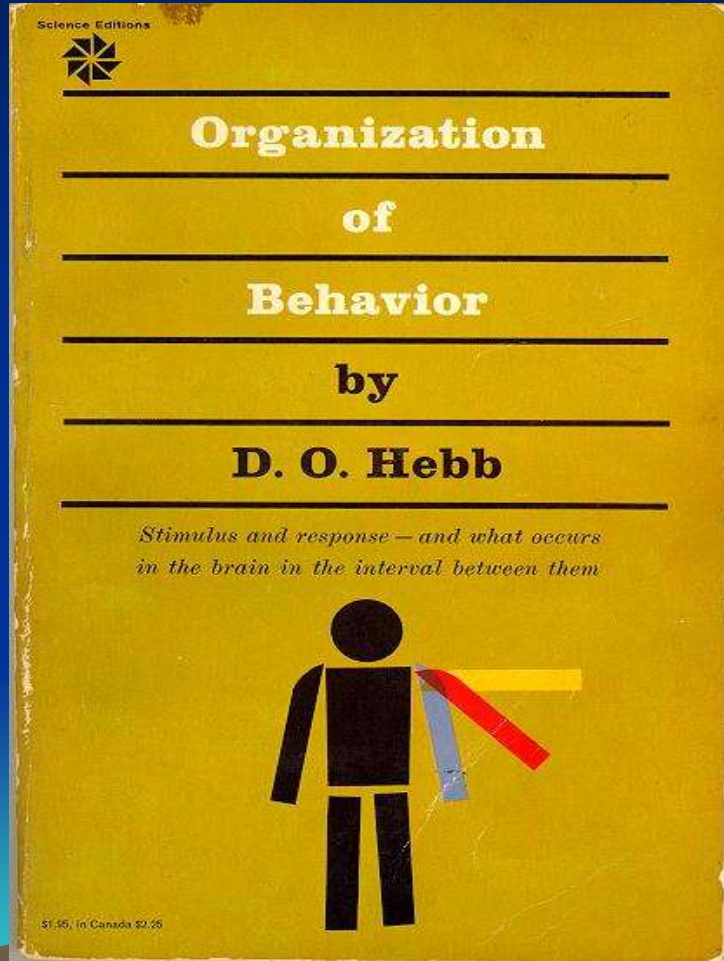# Religion itself is divided

Make love your aim, and earnestly desire the spiritual gifts...

1 Corinthians 14

Hebb 1949: Intelligence As An Emergent Phenomenon or Learning

Pr(Theory|Experience) = Pr(Experience|Theory)* Pr(Theory)/Z

Theory: Spiritual or Paranormal experience is "real"

Beyond the Mundane Brain

- Human history has many stories of life which do not fit the model of individual brain as the only intelligence. But they seem impossible in a simple model.

- Personal experience forced me to become open-minded in March 1967: I remembered and quoted a speech of Mao Tse Tung the day before it was given! (See Greeley 1969: 70% of PhDs have had personal experience they do not discuss.)

- Two intense new directions:
  - Scour literature from "schools" all over the earth for ways to expand my first person database, because more and richer experience is needed to explain all this. Also use neural network model to guide this.

"Cognitive Optimization and Prediction", search on "COPN" at www.nsf.gov – and international follow-on?

Pr(A|B)=Pr(B|A)* Pr(A)/Pr(B)

Prediction

Memory

. . .

Clustering

Optimization

J(t)=Max<J(t+1)+U>

$$\frac{\partial^+ z_n}{\partial z_i} = \frac{\partial z_n}{\partial z_i} + \sum_{j=i+1}^{n-1} \frac{\partial^+ z_n}{\partial z_j} \frac{\partial z_j}{\partial z_i}$$
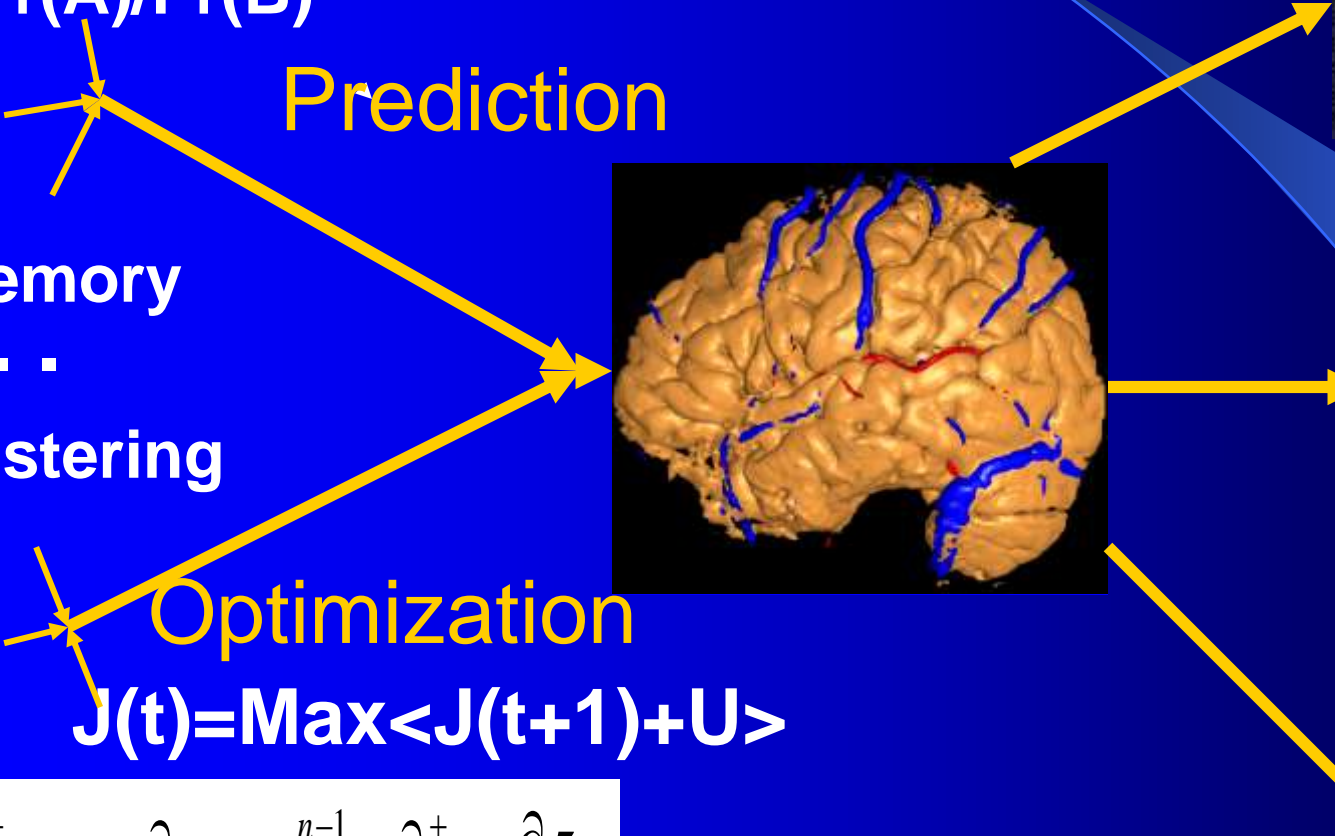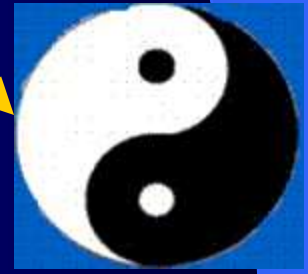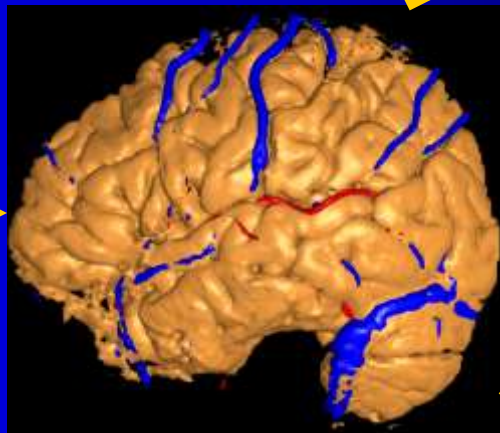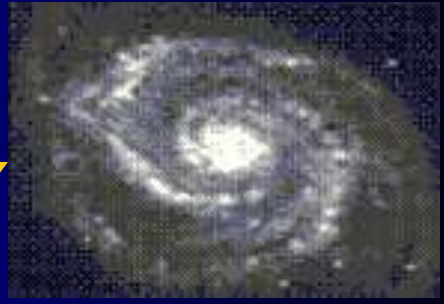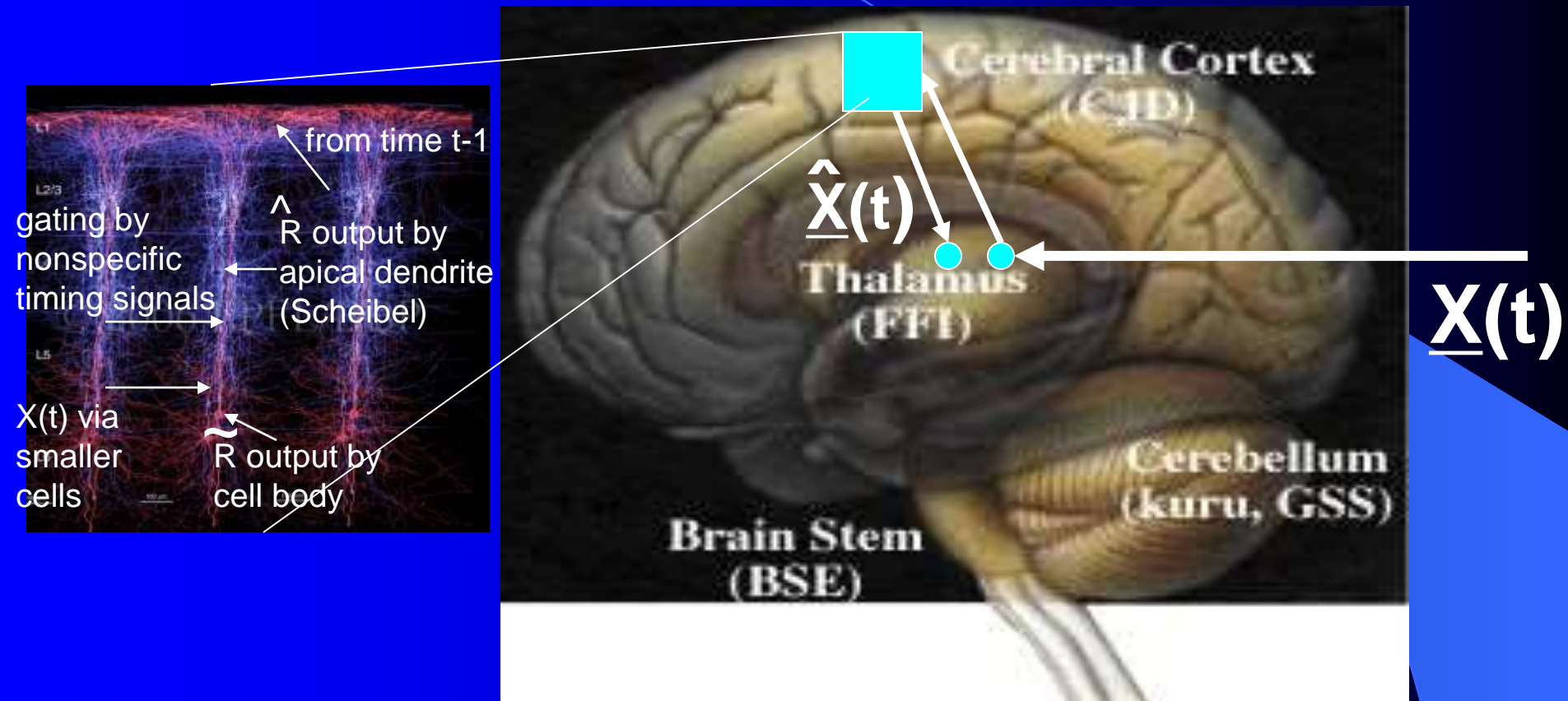
There are levels & levels of consciousness, & we now know the mathematical principles for understanding & replicating them.

Human-Brain General Intelligence

Mouse-level General Intelligence

True symbolic or "semiotic" (fuzzy?) Intelligence?
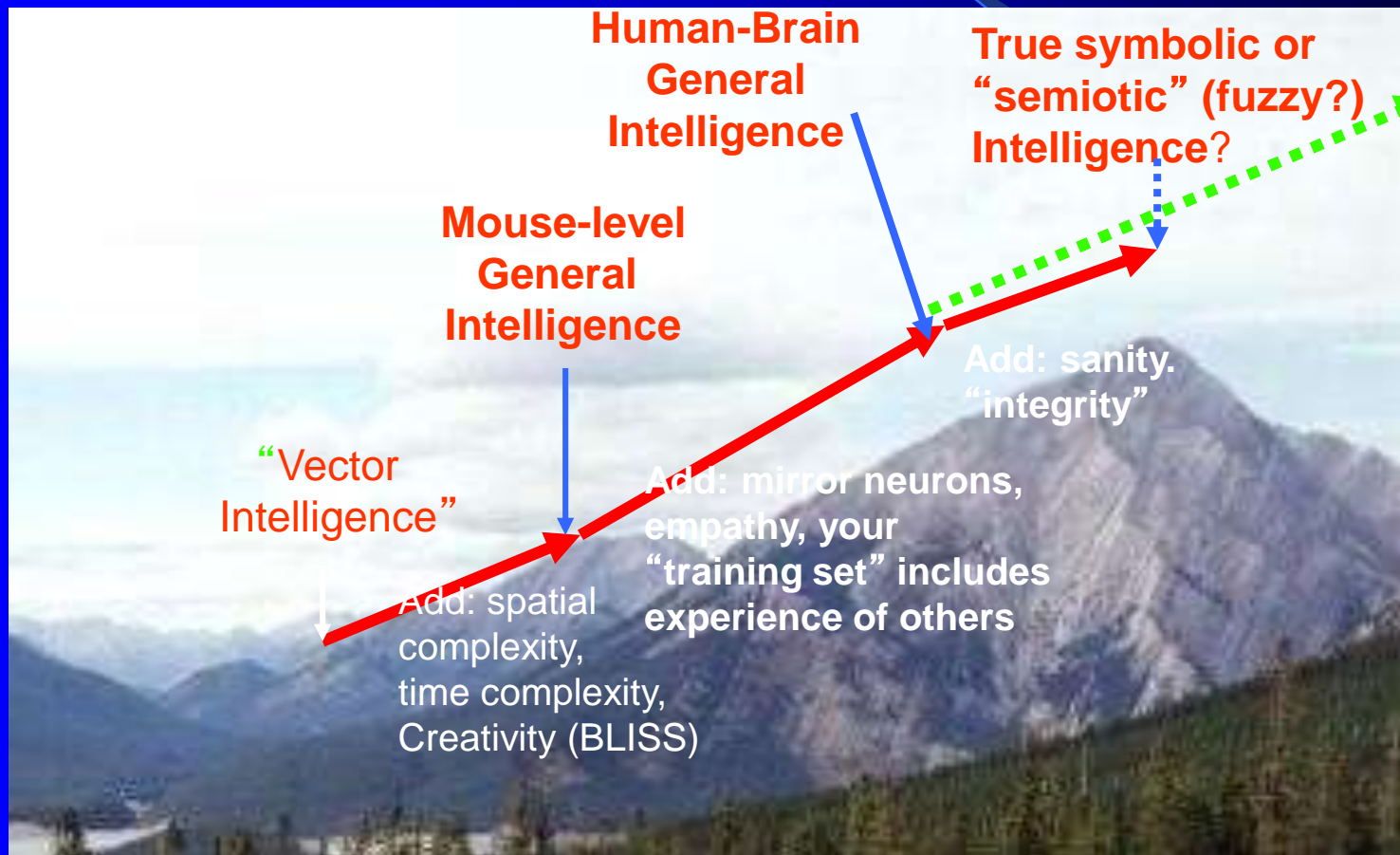
Quantum & Collective Intelligence (Jung,Dao, Atman, noo-sphere)?

Add: sanity. "integrity"

"Vector Intelligence"

Add: mirror neurons, empathy, your "training set" includes experience of others

Add: spatial complexity, time complexity, Creativity (BLISS)

For details: www.werbos.com

Ability to learn to "Predict Anything" Found in the Brain

gating by nonspecific timing signals

from time t-1

$\hat{R}$ output by apical dendrite (Scheibel)

X(t) via smaller cells

$\tilde{R}$ output by cell body

$\hat{\underline{X}}(t)$

$\underline{X}(t)$

Cerebral Cortex (CID)

Thalamus (FFI)

Cerebellum (kuru, GSS)

Brain Stem (BSE)

Regular Cycles of Forward and Backward Signal Propagation in Prefrontal Cortex and in Consciousness, by Paul Werbos and Yeshua (J.J.) Davis, *Front. Syst. Neurosci.*, 28 November 2016.

How Can A Simple Neural Network (10-100 Neurons) Outperform a Brain With Billions of Neurons?
Answer: It Pays Attention!

- IJCNN94: John Deere Fund ≈$1b reports earning 6% over Dow per month for years, using a simple neural network

Can we learn to pay more attention and be far more effective? What is the barrier? Claim: we can; the main barrier is the gap between symbolic & subsymbolic thought.

The Big Question Here.....

- *If* we believe paranormal effects are real

- *And if* we believe that everything is ruled by mathematical laws of nature ("physics")

- *Then* what do we do about it? How can we improve our understanding?

QED ⇏ REMOTE VIEWING

- Quantum effects Are <u>Not Enough</u>
- Additional Force Fields?
- But if so, where is signal processing(SP) ?
- <u>A radical chasm</u> -- extreme choices; give up remote viewing totally or else:
  - "cables" & SP in the universe
  - esoteric biology or "soul," symbiotic biology and intelligence
  - but either way, what about genetics?

Where we come from: a whole ecology of noospheres
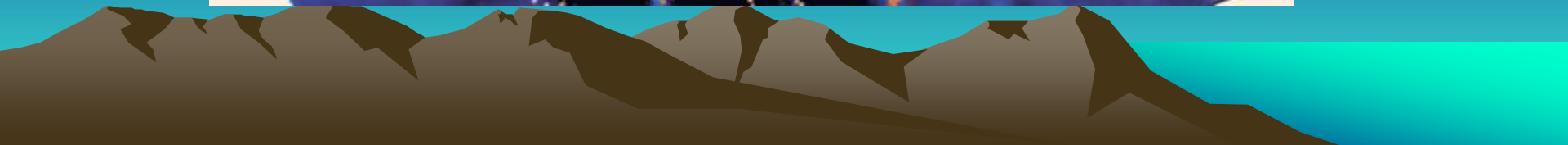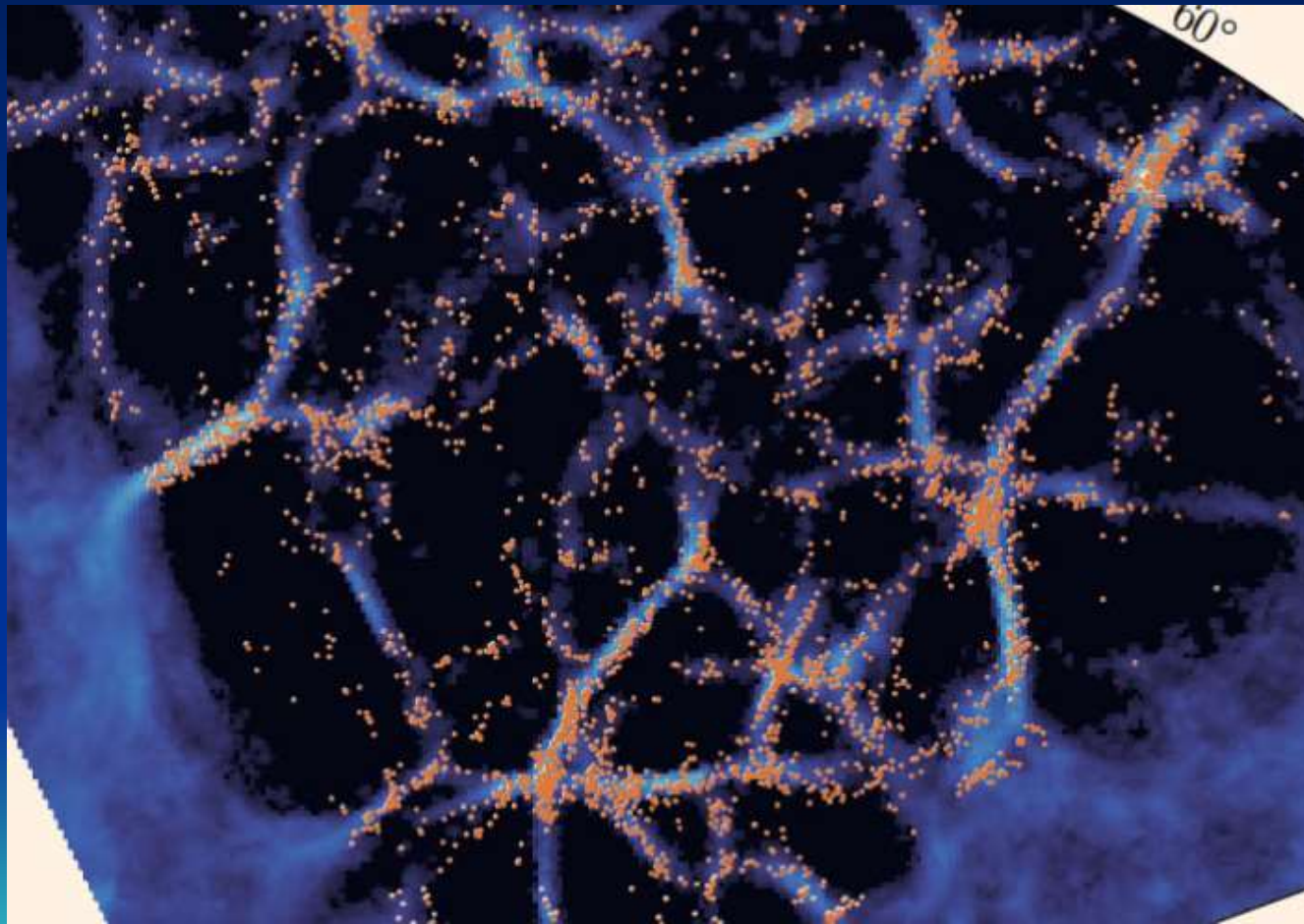
ALSO, OUR COSMOS PERMITS PRECOGNITION BUT NEW EXPERIMENTS
NEEDED: from vixra