misc

Erwin Schrödinger “What is life?” > influential to the discoverers of the double helix structure of DNA

living organisms have a certain order / structure to them

Certain phenomena in biology

Q u a n t u m t u n n e l i n g

A particle can hit an impermeable area and yet disappear from one side and reappear on the other side

Also takes place in living cells  
  
Enzymes: transferring subatomic particles from one molecule to another via quantum tunneling

Q u a n t u m c o h e r e n c e in photosynthesis

Quantum entities multi-tasking ~ multi-directional

Photon (quantum light entity) ~ follows multiple pathways at once

Robins – sensing Earth’s magnetic field – how does it do it?

Quantum entanglement – inside Robin’s retina is a light-sensitive protein – a pair of electrons are quantum entangled “spooky action at a distance” (Einstein)

**3 levels of reality**:

Neutonian mechanics – cause & effect, predictable motion   
  
Thermodynamics – large groups of particles, disorder, statistics, tendency towards randomness ~ entropy

Foundation: Quantum mechanics – quantum tunneling, quantum coherence, entanglement – what everything else is ultimately built from

Quantum decoherence = the quantum system loses its coherence when it interacts with its surroundings, “collapses into a definite state” – *How can quantum phenomena survive long enough in the warm wet chaos of a cell to do something useful biologically?* – “using the noise” : specific subtle molecular vibrations at particular frequencies “background hum”

Observation can freeze quantum field in its state

/

cultural landscaping ~ c o s m o l o g i e s

Equation of magnetism

Algorithm is the magnetism (left hemisphere)

Tantra – the unseen, emergent part (right hemisphere)