Quantum Information Research Supports Consciousness as Information

Oral Paper Session

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Energy vs Information Duality

• Classical Energy = Conservation:
  – Energy is a particular consistency measure
  – Applies to Newtonian and Relativistic models
  – Only relevant within classical SpaceTime
  – Computation limits due to locality/sequential

• Quantum Information = Constraints:
  – Information is additional consistency measure
  – Applies to Quantum States
  – Only pertains to Quantum non-spacetime
It From Bit

- John Wheeler says every “IT” is really “BITs”
- Relativity & Quantum demand consistency
- Empty spacetime = quantum ether (Lorentz inv)
- David Bohm’s qstates = Active Information
- Large scale quantum systems
  - Black Holes (where gravity, quantum, infor. unite)
  - Superconductivity/Superfluidity
  - Quantum computation
  - Consciousness?
Bits and Black Holes

A “Bit” is Planck’s area in size

Event Horizon is entropy measure

Normal space & time

No space & No time

Back Hole
Quantum Computation

- Solves factoring algorithm in linear time
- Impossible for Classical Computers
- Due to non-spacetime properties of Qubits
- Decoherence rate impacted by noise/temp
- Information *without* energy encoding
- Hilbert Space = *concept* addressable mem
Quantum Information Means Smarter

- Gravitational time dilation $\Rightarrow$ dumber
- Qubits and Ebits are smarter than cbits
- Smarter when more dimensions ($\geq12$)
- Spacetime limits information unity
- Decisions without energy, space or time
- Acausal qstates can inject noise (REG)
Quantum Consciousness

- Biological Quantum Computation substrate
- Object semantics, abstraction, & knowing
- Observer adjusts spacetime perception:
  - Explains non-locality of phenomena
  - Non-ordinary temporal experiences
- Strong emotion as CAM quantum wells
- Consciousness $\leftrightarrow$ Unified “field” theory
- Subtle energy = quantum intelligence
Age of Knowing

• Quantum Knowing = Next Information Age
  – Bits are physical (not mathematical)
  – Energy vs Information duality/paradox
  – Atemporal and non-local means smarter!

• Outside the classical spacetime box
  – Remembering/communication = temporal concepts
  – Knowing and being are atemporal/acausal

• Nothing new required: subtle energy = qinfo