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 relavent within classical SpaceTime
 - Computation limits due to locality/sequential

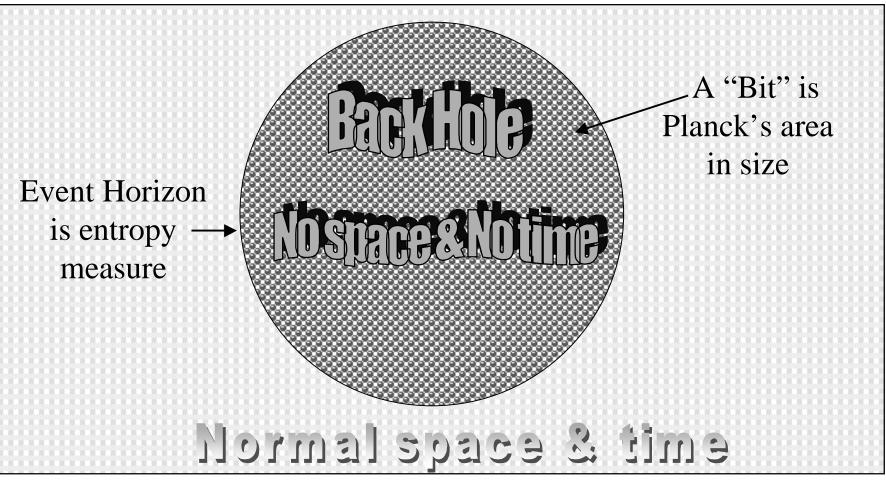
• Quantum Information = Constraints:

- 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
 - Consciouness?

Bits and Black Holes



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 dialation => dumber
- Qubits and Ebits are smarter than cbits
- Smarter when more dimensions (>=12)
- 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 <=> 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*