Subjective “I” Requires Extension of Information Paradigm

Tucson III Poster Session

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Abstract

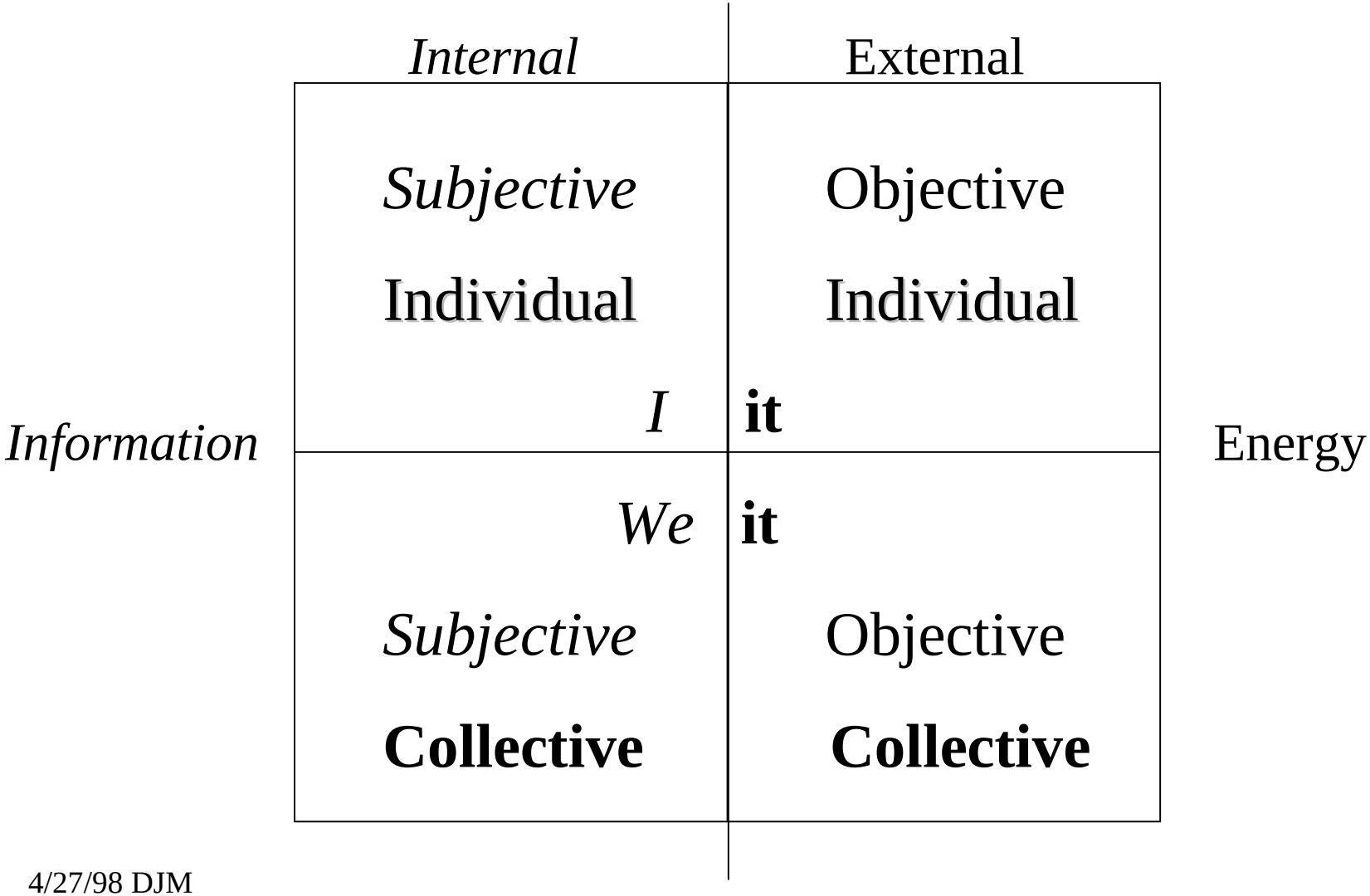
Ken Wilber's theory of holons clearly describes why subjective and objective realities are distinct. Traditional information theory exclusively deals with objective reality while missing or ignoring subjective reality altogether. Yet, both subjective and objective existences exhibit informational characteristics. This paper will enumerate these two kinds of informational properties and distinguish how they both must coexist.

This understanding is based on modern research relating information theory and quantum gravity. Current public understanding and mindset regarding the nature of information theory is not keeping pace with this highly technical field. The new unified quantum gravity theories are implicitly linked with thermodynamics and information theory. These theories imply that information and energy have a duality relationship resulting in paradoxical understanding just as earlier in this century particle-wave duality was seen as paradoxical. For example, a black hole's event horizon entropy measure is really an information metric more than an energy metric, since a quantum "bit" thrown into a black hole actually increases surface area by a minimum amount. Bits are not purely mathematical anymore, but also not purely energy/matter either.

This duality leads to the possibility, as proposed by others, that information is more fundamental than energy. This approach says a lot about the nature of the information-energy duality, especially the interdependence of these two distinct properties. If information is truly more primitive than energy or matter, then it must also naturally be more fundamental than time and space. Informational like structures supporting quantum gravity theories must predate energy/matter and space/time encodings, yet impact physical reality.

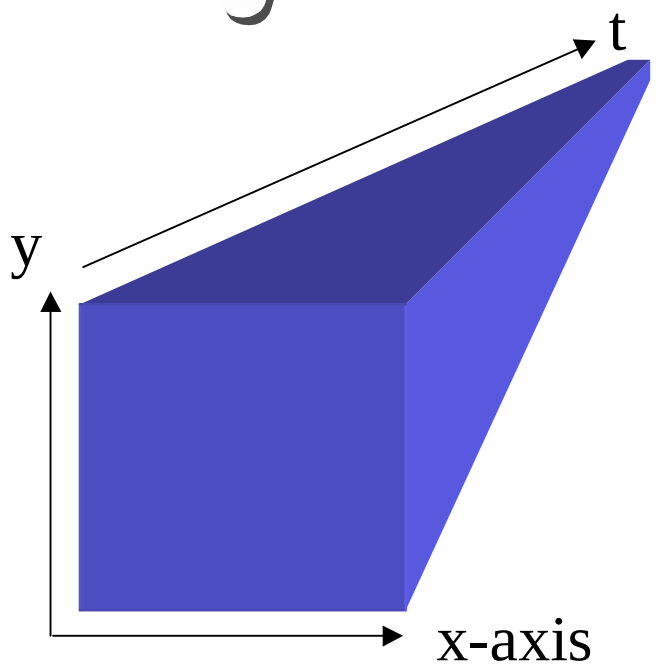
This non-local and atemporal information understanding and thought process is the key to comprehending informational properties for subjective realities. This informational infrastructure must not only be the basis for all of physical nature (including quantum mechanics) but also the basis of all "hard problems" of consciousness. The modern information-energy duality will be explored in relationship to the subjective-objective nature of consciousness and information theory. Understanding and accepting this duality is the key to comprehending that paradoxical nature of consciousness and presumed mind/matter interaction

Ken Wilber`s Holon Model



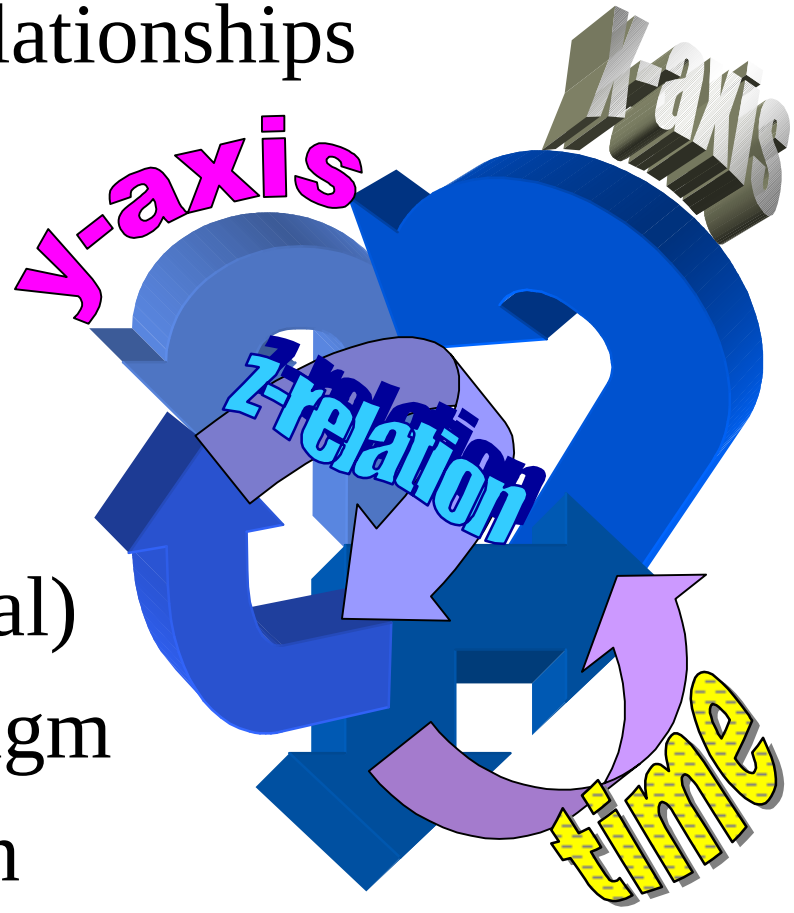
Objective Paradigm

- Energy dominant
- Externally measurable
- Within Space
- Within Time
- Major scientific paradigm
- Denies subjective experience

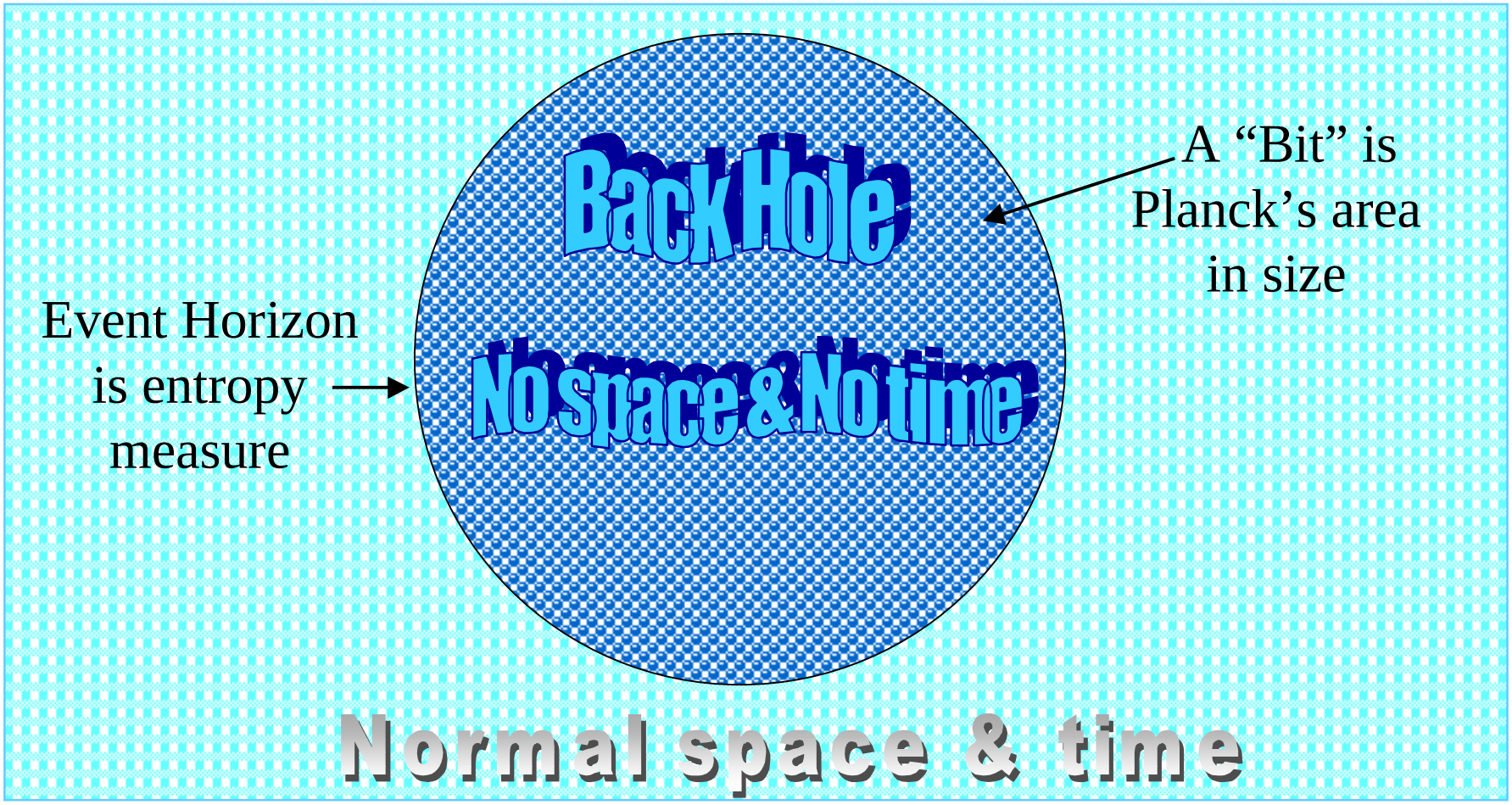


Subjective Paradigm

* Information states and relationships
* Internally Reportable but not measurable
* Non-local in space
* Non-adjacent in time (atemporal, non-sequential)
* Major experiential paradigm
* Physical reality is illusion



Quantum-gravity-information Unification



Quantum Theory based on Information/Subjective Framework

- All properties of info/subjective domain
- Pre-energy and non-measurable as classical
- Statistical methods required & developed
- Non-local interactions proven (EPR)
- Atemporal negates typical cause and effect
- Information constraints & consistency rules

Unify Physics and Consciousness

- Consciousness and quantum share info properties
- Information domain, since pre-energy
- Relationships define spacetime
- Non-local and atemporal effects observed for both
- Must define non-energy info mechanism
  - Wheeler's pre-geometric spacetime
  - Membrane theory using tetrahedron forms
  - Laws of Form or combinatoric physics
- Predict consciousness will impact quantum exper.