

Re: Quantum Phase Compactification via Spacetime Expansion

Source: <http://sci.tech-archive.net/Archive/sci.physics/2004-07/7272.html>

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Date: 07/23/04

Date: Fri, 23 Jul 2004 11:09:57 GMT

"Russell E. Rierson" <analog57@yahoo.com> wrote

- > *Non-relativistic string theory was introuced by d'Alembert, in 1747,*
- > *with the first appearance of the wave equation and the d'Alembertian*
- > *operator, which eventually became the foundations of "relativistic"*
- > *field theories; for example, the theories of electromagnetism, special*
- > *relativity, and quantum mechanics.*
- >
- > *The description of any entity inside the real universe can only be*
- > *with reference to other things in the universe. Space is then*
- > *relational, and the universe, self referential. For example, if an*
- > *object/event has a momentum, that momentum can only be explained with*
- > *respect to another object/event within the universe. Space then*
- > *becomes an aspect of the relationships between things in reality.*
- >
- > *If the universe is a causally closed system, the "information" or*
- > *entangled quantum states cannot leak out of the closed system. So the*
- > *"event" density of entangled quantum states, continually increases, as*
- > *the entropy must always increase. While to us, it is interpreted as*
- > *entropy or lost information, it is actually recombined information, to*
- > *the universe.*
- >
- >
- > *The present moment is created and recreated constantly – analogous to*
- > *continually opposing/juxtaposing reflective mirror images. originating*
- > *deep in quantum phase space. The Heisenberg uncertainty relation*
- > *provides both a resolution boundary and the invariant relational*
- > *fabric for a translation between quantum[Planck scale] space and*
- > *experiential reality. It is the quantum T-dual compactification that*
- > *provides the Heisenberg resolution boudaries for*
- > *experiential[perceptual] reality. Unstable or chaotic states at a*
- > *given level are always "compactified" (stabilized and bounded by*
- > *eigenstates) into 6 higher dimensions condensing to the next level of*
- > *"event density".*
- >
- > *Since relativity explains that there is no preferred frame of*

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- > *reference, the ether becomes superfluous; consequently, the metric of*
- > *space–time must be defined by related events, such, that there is no*
- > *space–time if there are no events. Time is thus a sequence of events,*
- > *with each "event", having its own measure of location, and its own*
- > *measure of time, with reference to other events. Space becomes an*
- > *event density–probability distribution.*
- >
- >
- > *The organic analogues of quantum attractors are translated via*
- > *quantized fractal modes onto the classical domain via*
- > *compactification, while events on the classically canonical domain, of*
- > *three spatial dimensions plus time, influence the*
- > *collapse/condensation of these attractors on the quantum–level via*
- > *feedback excitation modes.*
- >
- >
- > *T–Duality is a symmetry that obscures the ability to differentiate*
- > *between large and small distance scales; resulting from the*
- > *compactification of the extra space dimensions in a ten dimensional*
- > *superstring/brane theory. For example, in ten spacetime dimensions,*
- > *with nine space and one time, take one of those nine space dimensions*
- > *and make it a circle of radius R , so that traveling in that direction*
- > *for a distance $L=2*\pi*R$ goes around the circle and returns back to the*
- > *starting point. A particle traveling around this circle will have a*
- > *quantized momentum around the circle, which will contribute to the*
- > *total energy of the particle. But a string is very different, because*
- > *in addition to traveling around the circle, the string can wrap around*
- > *the circle. The number of times the string winds around the circle is*
- > *called the winding number, and it is also quantized.*
- >
- > *The momentum modes and the winding modes can be interchanged when the*
- > *radius, R , of a circle is also exchanged with the quantity L_{st}^2/R ,*
- > *where L_{st} is the string length. If R is very much smaller than the*
- > *string length, then the quantity L_{st}^2/R is going to be very large.*
- > *Consequently, exchanging momentum and winding modes of the string,*
- > *exchanges a large distance scale of radius R with a small distance*
- > *scale of radius $1/R$.*
- >
- > *Theoretical physicist Richard Feynman derived the "sum over histories"*
- > *interpretation of quantum mechanics, where a system does not have a*
- > *single history, but it has every possible history, and each history*
- > *has its own probability amplitude. A probability distribution of*
- > *histories. For example, an electron travels from point A to point B by*
- > *every possible route at once. Each possible route or "path"*
- > *corresponds to a history.*
- >
- > *The amplitude for each history defines the probability of that*
- > *particular path being followed. The number involves the "action"*
- > *associated with the history–path, which seems to determine that the*
- > *path taken, will be the history closest to the "classical" trajectory,*
- > *in accordance with the natural law: conservation of energy.*

- >
- > *Stephen Hawking explains that when we apply the Feynman sum over*
- > *histories to particles moving in a background of spacetime, we must*
- > *also include histories[waveforms] in which the particle travels*
- > *backwards in time. This generates the space–time/event–density fractal*
- > *resonance.*
- >
- >
- > *The increase in mass of a body moving at relativistic speeds can also*
- > *be interpreted as a type of rotational perspective effect, and when*
- > *time is explained as a dimension, "ct", by combining one of the c's*
- > *with time to convert it to a length, $E = m_0 c^2$ becomes $m_0 c$, a*
- > *momentum, specifically, a momentum of an object's motion down its time*
- > *axis.*
- >
- > *A being's conscious awareness is what is really moving along its*
- > *world– line, which is the fourth dimensional extension of its 3*
- > *dimensional self.*
- >
- > *$m_0 c$ is a momentum along its time axis.*
- >
- > *If we stopped moving through time the rest energy of objects would be*
- > *zero?*
- >
- > *Interesting...*
- >
- > $(mc^2)^2 = (m_0 c^2) + m^2 v^2 c^2$
- >
- > *becomes*
- >
- > $(mc^2)^2 - m^2 v^2 c^2 = (m_0 c^2)^2$
- >
- > *An equation of the form:*
- >
- > $c^2 t^2 - dx^2 = K$
- >
- >
- > *A quantum field unites gravity and electromagnetism.*
- >
- > *Gravity becomes a refractive/compression effect, as light cones are*
- > *rotated near a massive object:*
- >
- > *Topological metric spaces are defined as being diffeomorphism*
- > *invariant. Intersecting cotangent bundles[manifolds] are the set of*
- > *all possible configurations of a system, i.e. they describe the phase*
- > *space of the system. Waves are ripples in a basic medium. Einstein*
- > *explains that the ether is unnecessary as a medium, so the ripples are*
- > *vibrations of space itself which are actually the overlapping of event*
- > *densities/conic sections. As the ripples overlap/intersect with each*
- > *other, it becomes a domino effect with the ripples continually*
- > *increasing in density. Very similar to taking a penny and doubling it*

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- > *as a sequence.*
- >
- > 2, 4, 8, 16, 32, 64, 128, 256, ... 2^n
- >
- > *Since the ripples are increasing in density they are defined by*
- > *density gradients. A compression force corresponding to the Shannon*
- > *entropy of the system.*
- >
- > *Resonating standing waves/waveforms. The past collapses/condenses/*
- > *compactifies in 6 dimensions to the present moment, while the future*
- > *is an expanding uncertainty, in four space–time dimensions.*

what limits would be applied to

- > *"event" density of entangled quantum states, continually increases*

would high level events that we describe semantically be 'physically demonstrated'?

Herc