

Re: The Universes Next Door

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>PS The NASA Pioneer 10&!! Anomaly $a_g = cH \sim 10^{-7} \text{ cm/sec}^2$ directed
>back to Sun is more evidence for the local macro-quantum Higgs order
>parameter, this time with S^2 symmetry forming a dark energy hedgehog
>topological defect starting at 20AU from Sun. ending we do not know
>where yet. The Galactic Halo holding our solar system in the Galaxy is
>also a dark energy exotic vacuum blob that is more stable than
>Vilenken's thin vacuum domain wall.
>
>Preliminaries on the nonlocality of gravity energy from Penrose "Road to
>Reality".
>
>Note that Shipov's "oriented point" in his torsion theory extension of
>1916 GR has a non-trivial topology configuration space with a spinor
>structure as shown in detail by Roger Penrose.
>
>The Cartan p -form is a "density" unlike the graded Grassmann algebra
>analog to it. A p -form in a $N > p$ space is a $N - p$ dimensional hyper
>plane element that is dual to the p mult-vector field. The multi-vector
>from Grassmannian wedge products is not a "density" for integration.
>
>Think of the multi-vectors like the Bohm hidden variable particle
>trajectories and the dual p forms as the pilot qubit wave fronts.
>
>The p -form is the intersection of p 1-form covectors ($N-1$ dim hyperplane
>elements) Fig 12.10 p.228 Penrose. See Fig 12.7 & 12.8 & 12.9 p. 226 on
>covectors as generalized contours but with a "twist" obstruction p. 225
>
>The p -form is what we integrate over a p -dim submanifold of the N -dim
>manifold. The topology is generally mutiply connected with Betti numbers
>and other global topological measures.
>
>Curvature is a 2-form integrated over 2-dim sub-manifolds of spacetime.
>Diff(4) is automatic for these global integrals and they are, therefore,
>independent of the arbitrary choice of overlapping local coordinate
>patches or charts whose atlas covers the entire manifold. The overlap
>transition functions between them are precisely Einstein's general
>coordinate transformations (GCT) and GCT symmetry means completely

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- >arbitrary LOCAL choices of coordinate charts exactly like the completely
- >arbitrary choice of phases in $SU(n)$ local gauge theories! There is no
- >rule that we MUST choose the largest possible local charts for example.
- >However, each choice of a local coordinate chart specifies a possible
- >distribution of local observers some (LIF) on intrinsic geodesics of the
- >metric space others (LNIF) not. That is, there is a well conceived
- >physical measurement scheme associated with EVERY GCT subject to local
- >causality light cone constraints and negligible quantum gravity
- >uncertainty in the light cone localizations.
- >
- >Every GCT transition function is a switch from one configuration of
- >local observers to another all inside a small enough spacetime blob
- >without obstructions from event and particle horizons so that they can
- >all exchange light signals.
- >
- >"One of the beauties of this ... is that it automatically deals with any
- >changes of variable that we may choose to invoke."
- >
- >The p -forms are INVARIANT under GCT and so are their GLOBAL INTEGRALS.
- >There is an analog to the Cauchy integral residue theorem sum over poles
- >with the Betti-numbered wormhole handles analogous to the poles in
- >evaluating the integrals. For our problem we are talking about the
- >hologram closed 2-surfaces enclosing volumes.
- >
- >"The parameters x^u or x'^u could be taken to be one of the coordinates
- >in a coordinate patch in this ambient space, where we are happy to
- >change to a different coordinate when we pass to another coordinate
- >patch." p. 230
- >
- >"This eliminates the explicit mention of awkward quantities known as
- >'Jacobians'" p. 235
- >
- >*None of this point set topology manifold structure closely tied to
- >local causal measurement theory is in Hal Puthoff's too simple PV theory
- >without a consistent measurement theory.
- >
- >Splitting universes require a non-Hausdorff manifold. Fig 12.5 p. 223
- >
- >A Hausdorff space forbids the splitting and fusion of alternative world
- >timelines in a PK Dickian multi-verse of parallel universes next door. A
- >non-Hausdorff space means we can pass to a universe next door where
- >Phillip Roth's "The Conspiracy Against America" and P.K. Dick's "The Man
- >in the High Castle" are actual realities down to the last comma!
- >
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- >
- >On Dec 18, 2004, at 3:44 PM, Jack Sarfatti wrote:
- >

- > *t'Hooft and Susskind building on Bekenstein and Hawking conjectured that*
- > *the dimensionless information content in a volume of space is the area*
- > *of its boundary divided by 4Planck area. Whether those are c-bits or*
- > *qubits is left unclear.*
- >
- > *In Cartan's forms, which are automatically Diff(4) invariant, and which*
- > *permit integrals on curved manifolds, circumventing some of the gravity*
- > *nonlocality problem, the Levi-Civita connection field is a 1-form and*
- > *the curvature is a 2-form.*
- >
- > *Einstein's field equation, including the dark energy local field*
- > *correction, is*
- >
- > $G_{uv} + \Lambda g_{uv} = 8\pi(G/c^4)T_{uv}$
- >
- > *The dimensions of the "marble" geometrodynamics LHS are 1/Area consistent*
- > *with the Cartan curvature 2-form with INVARIANT Hodge DeRham integrals*
- > *over 2D coform AREAS. This is automatically HOLOGRAPHIC since VOLUMES*
- > *are replaced by AREAS!*
- >
- > *This is because $8\pi(G/c^4)$ has dimension [Length/Energy] = (String*
- > *Tension)⁻¹.*
- >
- > *Note that non-Perturbative background-independent Quantum Loop Gravity*
- > *also rests fundamentally on the quantum area operator as does my own*
- > *macro-quantum coherent "More is Different" emergence derivation of*
- > *Einstein's local GR from the rigid Goldstone phase of the Higgs Vacuum*
- > *Order Parameter in the Inflationary Phase Transition of the Big Bang*
- > *from the unstable flat false micro-quantum vacuum to the stable curved*
- > *macro-quantum coherent holographic vacuum with lower zero point energy*
- > *density (small Cosmological Constant) and lower entropy (smaller phase*
- > *space volume).*
- >
- > *That is, Cartan's tetrads e^a_μ come from the Bohm elasticity giant pilot*
- > *wave constraint*
- >
- > $e^a_{,\mu} = \text{Kronecker Delta}^a_{,\mu} + (\text{Area Quantum})(\text{Goldstone Phase})_{,\mu}$
- >
- > *, a is ordinary partial derivative*
- >
- > *When the "rigid" Goldstone Phase = 0*
- >
- > $e^a_\mu = \text{Kronecker Delta}^a_\mu$
- >
- > $g_{uv}(\text{Curved LNIF}) = e^a_\mu(\text{Minkowski})_{ab} e^b_\nu = (\text{Minkowski})_{uv} = \text{PRE-INFLATION}$
- > **FALSE VACUUM**
- >
- > *in that limit.*
- >
- > *In general*
- >

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> $g_{uv}(LNIF) = [Minkowski(LIF)]_{uv} + (1/2)(E_{u,v} + E_{v,u})$
>
> $E_u = (Quantum\ of\ Area)(Goldstone\ Phase), u$
>
> *This is not perturbation theory and g_{uv} is a dynamical field.*
>
> *Note also that the Vilenken unstable flat DARK ENERGY vacuum domain wall
> solution is a finite spacetime blob "Lorentzian instanton" inside of
> which there is zero conformal curvature with a non-trivial {LC}
> connection field. Hovering LNIF observers at a fixed distance z from the
> wall ($x-y$ plane) must fire their rocket motors away from the wall that
> is effectively an anti-gravity field in Newton's sense. Timelike LIF
> geodesics appear as hyperbolic "constant accelerating" Rindler motion to
> these stationary hovering non-geodesic LNIF observers using non-gravity
> force (ejected propellant) to keep off the geodesics that recede from
> the wall in the wall's brief violent history.*
>
> *This is "Curvature without curvature" a nonlocal GR analog to the
> Bohm-Aharonov effect of "Magnetism without magnetism". The gravity
> energy is also nonlocal and this is another example of the disembodied
> footprint of micro-quantum nonlocality in the local macro-quantum
> Einstein field equations. There is no such thing as the "classical
> world" there is only the "macro-quantum world" created in the More is
> different Inflationary Big Bang.*
>
> *The conformally curved vacuum region outside the finite spacetime blob
> of the Vilenken-Taub Curvature without curvature solution is like the
> magnetic flux inside the long thin solenoid in the Bohm-Aharonov
> electron beam experiment. The need for LNIF non-geodesic observers to
> fire their rockets away from the wall to stay at a fixed distance z from
> the wall is like the fringe shift in the Bohm-Aharonov experiment.
> However, here EVERY POINT in the BLOB is like the coming together of the
> two paths for the alternative histories of the electron in the
> Bohm-Aharonov analog. This is familiar in GR where the universe recedes
> equally from every vantage point with no preferred "center" like an
> infinite homogeneous rubber sheet stretching isotropically from every point.*
>

This approach to parallel universes is way to complicated and too hard to understand. It's really very simple, when you use, "The Smart Universal Model".

First you start with a very basic unified field structure for a relatively perpetual moving particle like the proton (upper mean life 10^{30} years). I show this at my Website. This from this foundation or a starting building block (or brick). You build structures that move from the physics level to the chemistry level...., stellar, galactic, universal to parallel universes. They must all flow and fit perfectly in the sizes of the micro-universe and the macro-universes. From there it's just a simple continuation of building the universe in such a way that it remains relatively perpetual in motion, and grows (or evolves) in time, with minimum galactic or universal collisions. I show the basic building blocks or foundations that allow this to occur with a

easy clear understanding.

I think it is important that parallel universes grow eternally without running into each other to allow beings to exist independently in their own world or universe. This removes the chaos and corruption state of people fighting over one square inch of land, like they do on this planet. I think each universe should have independent isolation fields which prevents not only prevents collisions of multi-parallel universes, but also allows beings to exist happily in their own world. There can be sharing zones within the parallel universes for those with common interests.

The Smart Model is in my opinion the most accurate and allows for free will choices of beings in the universe. I think the current state of the universe is like a giant universal chemical interaction on the universal scale. the nearest parallel universe could be the H₂ atom type universe right next door to us. What about the rest of the universe and how does it expand eternally. Well according to the Smart Model, The Conservation of Matter and Energy had to be updated in such a way to allow for the creation of more energy and matter within galaxies and universes. The galaxies spiral with arms opening and closing allowing for the Creation of new matter and energy. The creation of new particles can be observed with photon-photon collisions. and matter and anti-matter collisions. As the new energy is created it cools and slows down producing new matter which can be in the form of new solar systems and planets.

The Smart Model is also involved in the discovery of stars that never burn out and provide light energy perpetually. In larger suns in can be observed that a Lithium energy field forms in the outer layers of the sun. There appears to be a constant fusion reaction between Lithium and Deuterium and vice versa. The Smart Model also seeks to make these type of fusion reactors (theoretically) that provides clean fusion energy without radioactivity.

For more information about the Smart Model go to my Website.

Smart's Alt. Physics News Group

<http://pub39.bravenet.com/forum/show.php?usernum=3320272813&cpv=1>

S. Enterprize (Science Journal)

<http://smart1234.s-enterprize.com/>