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From: Jack Sarfatti <sarfatti@pacbell.net>
User-Agent: Mozilla/5.0 (Macintosh; U; PPC Mac OS X Mach-O;
en-US; rv:1.4) Gecko/20030624 Netscape/7.1
X-Accept-Language: en-us, en
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63.198.176.106 (Tue, 28 Oct 2003 01:59:32 EST)
NNTP-Posting-Date: Tue, 28 Oct 2003 01:59:32 EST
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Date: Tue, 28 Oct 2003 06:59:32 GMT
Xref: news.otenet.gr sci.skeptic:365952 sci.physics:581030
sci.math:397064 sci.astro:220251 alt.ufo.reports:35528

See comment on Tony Smith's "conformal gravitons" below.

Just in. Thanks Scott. :-)

Message 1

On Monday, October 27, 2003, at 03:16 PM, Scott Littleton
wrote:

Hi Jack,

Let me take a moment away from the TV, where we've been
watching the
progress of the horrendous local fires and hoping they don't
come any
closer to Pasadena, to comment on Robert Sheaffer's recent
comment that

"It is exceedingly unlikely that UFOs... are real entities, they are mostly due to 'random errors' occurring in the human perceptual and social-belief formation system. There is noise in every information channel, and our society has agreed to describe a certain kind of that noise as "UFOs." While we may argue about their origin and purpose, it has long since become abundantly clear that what we call "UFOs" are not simply "noise." Unless the thousands of internally consistent reports by credible witnesses, including abductees, are some form of mass hallucination, these phenomena clearly have an objective existence. Moreover, as a student of comparative mythology and folklore, I can firmly attest that the patterns reported by contemporary witnesses and "experiencers" jibe remarkably well with pre-modern accounts of "flying shields," abductions to "fairy-land" by short creatures with big eyes and pointed, "elfin" chins, missing-time episodes, and rides in "flying wheels" a la Ezekiel's famous trip.

To ignore all this evidence, "soft" though it most of it may be (although I strongly suspect that despite a half-century of stonewalling, some members of the U.S. and other intelligence communities-the CIA, MI6, the old KGB, etc.-have in their possession an abundance of "hard" evidence garnered from Roswell, Kecksburg, and other UFO crash sites), is to wallow in a state of denial so all-embracing that it beggars the imagination. Or do debunkers like Sheaffer, Oberg, Klass, and the rest have another, more devious agenda, that is, to further the Government's long-standing policy of keeping the lid on by systematically ridiculing those of us who suspect the truth about this phenomenon, all the while being privy to above-top-secret knowledge that would prove us right? One > wonders....

All best wishes &

Cheers,
Scott

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"Any sufficiently advanced technology is
indistinguishable from magic"
--Sir Arthur C. Clarke

"I think we're property. . ."
--Charles Fort

Again, the basic "exotic" physics of Chapter 9 of Sir Martin
Rees's WMD
book "Our Final Hour" as well as how UFOs, if they are real,
would have
to fly via metrically engineered weightless warp drive (local
absence of
g-force) in my opinion is summarized in
<http://qedcorp.com/APS/StarGate1.mov> However, again I
emphasize that
the physics there in no way depends on whether or not UFOs are
real. If
they are not real now, if my physics is on the right path, they
will be!

Message 2

From: Jack Sarfatti <sarfatti@pacbell.net>
To: "Gary S. Bekkum" <garysbekkum@hotmail.com>
Subject: Re: CHINA - Quantum Vacuum Reaction WMD research?
Date: Sat, 11 Oct 2003 10:31:38 -0700

Thanks Gary, looks relevant. The second paper below by Ning Wu
sounds
relatively close to the sorts of ideas I am playing with
relevant to
Martin Rees's Chapter 9 in "Our Final Hour". ...

Agent X from Russia commented:

.. I'm aware about existence in f. USSR of strategical
scenarios of

"psychotronic war games" - in course of which were resolved problems of minimization of collateral damage to civilian population, maximizing at the same time efficiency of influencing of decision-making of national leaders of target countries. Dr. Sergeyev told me that similar data were in possession of our Western colleagues; - with whom Russian military elite routinely shared most essential strategical information (as correctly wrote Ph. Corso: see on p. 94-95 of '97 edition of his book), so as not to break mutual trust which during Cold War years had been the principal basis of Global Stability. (Of course, it wasn't necessary to carry across borders carloads of technical papers - for intelligent enough people, comprising intellectual elite, it was sufficient few words. Here can be drawn parallels with first years of Atomic Era: sources of Soviet "atomic spies" in USA - including such top scientists as Einstein, Oppenheimer, Bohr & others - needed just to tell few words to such Soviet "scientific agents" as Ya. Terletsky etc.)"

See my comments on this in Pavel Sudoplatov's "Special Tasks" paperback ed. with foreword by Robert Conquest of the Hoover Inst. Stanford.

"Majority of competent Soviet (and post-Soviet) experts in this area feel it to be morally permissible to use in cases of extreme necessity "surgical psychotronic strikes" against selected "human targets" instead of destructive & inefficient massive interventions like Vietnam, Afghanistan & Iraq; - which bring much needless sufferings to innocent civilians, lots of political problems, terrible financial expenses - and almost no positive results. Regretfully, collapse of f. USSR stopped development of selective varieties of "psychotronic genome weapons"

which might be precisely aimed at genome patterns of some chosen "human target" - this was long before lists of "death genes" became freely obtainable from Internet. As I've mentioned, in 1989 in Kiev - then an important center of Soviet psychotronic research - there were performed tests of "non-selective" torsionic weapons, capable to interfere with some of biochemical reactions inside the cell; - whose influence could not be shielded by any material screens. However, these - compact enough to be installed on a satellite & requiring very little electric power - devices couldn't function as an efficient weapon, as their effects took too much time (perhaps, years) to manifest themselves (because of this such weapons weren't used in Afghanistan & Chechnya). Soviet experts guessed that in order to create really efficient swift weapon there must be undertaken more thorough research, involving use of supercomputers for precise calculation of resonance frequencies of vulnerable genes (in fact, they believe that this is the main task of recently built in USA for genetic research "Blue Gene" supercomputer with teraflop processing speed)."

My comments on above. I cannot comment on the particulars of the above allegations. We did have Gennady Shipov here from Moscow for extended visits in 1999-2000 as part of the ISSO effort to try to figure out the "torsion physics". I did not make much progress until perhaps only a few days ago because of a remark from Professor Thomas Angelides in London about the structure of the Penrose Masseless Twistor Conformal Group $SU(2,2)$ or $SU(4)$ depending on topological signature in 4 complex dimensions.

Professor Angelides pointed out that 4 of the 5 extra elements of the

Lie Algebra of the Conformal Group are a kind of mirrored version of the translation subgroup of the Poincare group. The "Fifth Element" is the dilation group implicit in inflation where in the FRW metric

$$R(t) \sim e^{Ht}$$

H is the Hubble not the Hamiltonian. ;-)

Now in my toy model, the Dirac vacuum for the electron in globally flat space-time is unstable to the BCS formation of a ODLRO BEC of virtual electron-positron pairs due to virtual photon exchange near the edge of the $-mc^2$ Fermi surface.

This results in the microscopic derivation of the Vacuum Coherence Field, which in the large scale is the Inflation Field

Vacuum Coherence Field = (Higgs Amplitude Field) $e^{i(\text{Goldstone Phase})}$

Since the Vacuum Coherence Field is a complex scalar field the ONLY topological defects in 3D space must be 1D strings sweeping out a world sheet as further explained in this thread by Saul-Paul Sirag. This is a nice after thought.

This is a toy model. The rest of the lepto-quarks will have to be considered later.

Note that Haisch, Puthoff, Rueda, Marshall, Cole et-al zero point energy gravity program fails to ask the right questions because vacuum coherence is entirely lacking in their model.

Utiyama in the 60's showed that local gauging of the classical Poincare group of special relativity gave Einstein's curved space-time geometrodynamics symmetric tensor field from the 5 energy-momentum generators of the Lie algebra of the translation subgroup. Locally gauging the 6 space-time rotations of the Lorentz subgroup of the invariant light cones of null geodesics $ds = 0$ gave the torsion

antisymmetric tensor field years before Shipov rederived it in Moscow probably without knowing of Utiyama's work in Japan.

It is common knowledge that the rest mass of elementary lepto-quarks and the weak radioactive gauge force bosons required breaking down the 15 parameter Conformal Group to the 10 parameter Poincare group.

It is also common knowledge that the rest mass of these particles comes from the Higgs field in the standard $U(1) \times SU(2) \times SU(3)$ with Higgs-Goldstone BCS type phase transitions in the quantum vacuum.

In my theory

Einstein's $Diff(4)$ symmetric geometrodynamical field comes from the modulation or rippling of the coherent Goldstone phase of the Vacuum Coherence Field.

Indeed, the 4 generators of the translation subgroup of the Poincare group of special relativity are $P_\mu \sim \hbar / i \partial / \partial x^\mu$

The Sakharov metric elasticity field is simply (without holographic t'Hooft-Susskind renormalization at first) $(L_p^2 / \hbar) P_\mu$ (Goldstone Phase).

$$L_p^2 = \hbar G(\text{Newton}) / c^3 \sim 10^{-66} \text{ cm}^2$$

I need a second set of generators P'^μ from the Conformal Group operating on the Higgs Field to get the unified Dark Energy/Matter $w = -1$ exotic vacuum field

$$\rho_{\text{eff}} = L_p^{*2} [1 - L_p^{*3} (\text{Higgs Field})^2]$$

where if

$$L_p^* = L_p^2 / 3 (c/H^*)^{1/3}$$

where H is the Hubble, which clearly needs a more a-temporal meaning in terms of the constant total mass M of the Universe inside the expanding Hubble horizon.

That is

$GM/c^2 = c/H$ independent of cosmic time t and the FRW scaling $R(t)$ of the dimensionless comoving r coordinate of the Hubble flow.

$M = M(\text{on mass shell real matter} + \text{radiation}) + M(\text{near EM fields}) + M(\text{exotic vacuum fields})$

M is a contingent WAP initial condition of the Level 1 parallel universe
(Max Tegmark, May 2003 Scientific American)

$M(\text{exotic vacuum}) = M(\text{dark energy}) + M(\text{dark matter})$

$M(\text{dark energy}) \sim 0.73M$

$M(\text{dark matter}) \sim 0.23M$

$M(\text{on mass shell real matter} + \text{radiation}) + M(\text{near EM fields}) \sim 0.04M$

Not to be confused with the LARGE-SCALE ONLY cosmic time-dependent

$H(t) = R(t)^{-1}(dR(t)/dt)$

Note that the time dependent densities scale as

$R(t)^{-3}$ for real matter with $w \sim 0$

$R(t)^{-4}$ for real EM radiation like the CMB with $w = +1/3$

and independent of $R(t)$ for exotic vacuum with $w = -1$ from Einstein's equivalence principle + Heisenberg's uncertainty principle

Where the equation of state of ALL STUFF REAL OR VIRTUAL is

$w = \text{pressure}/(\text{energy density})$

The electron rest mass is

$m \sim (e/c)^2/\zeta_{pf}^{1/2}$

from the strongly attractive "dark matter" vortex ring core of positive zero point energy pressure where Higgs Field $\rightarrow 0$ like in a quantized vortex string of a superfluid.

Indeed, $\nabla^2 \phi \neq 0$ comes from modulating or rippling the Higgs field.

That is, in the sense of a Taylor series expansion about the normal vacuum

$(\text{Higgs Field})^2 L_p^3 = 1$ where Einstein's Cosmological Constant VANISHES

from pouring macro-quantum coherent oil on the random chaotic micro-quantum zero point fluctuations of ALL quantum fields.

This

stillness was the calm before the storm of the Big Bang

reheating

post-inflation in this decoding of The Cipher of Genesis (Carlo Suares). ;-)

$\nabla^2 \phi \sim L_p^2 (\text{Pu}'/\hbar) (\text{Higgs Field})^2$

that can be positive or negative giving Dark Energy or Dark Matter respectively.

The Pu' are from the mirror translation subgroup of the Conformal Group.

Let $\text{PSI} = \text{Vacuum Coherence Field}$

$(\text{PSI})_{,u} = \text{Higgs } e^{i\text{Goldstone}} i\text{Goldstone}_{,u} + \text{Higgs}_{,u} e^{i\text{Goldstone}}$

$= e^{i\text{Goldstone}} [\text{Higgs}(\text{Pu}/\hbar)\text{Goldstone} + (\text{Pu}'/\hbar)\text{Higgs}]$

$= \text{Translation Gradient Ripple} + \text{Mirrored Conformal Translation Gradient Ripple}$

$= \text{Einstein Gravity Ripple} + \text{Exotic Vacuum (Dark Energy/Matter) Ripple}$

The quanta "normal fluid noise" of these ripples in the emergent "More is different" (PW Anderson) vacuum superfluid signal are

Einstein's "gravitons" and Tony Smith's "conformal gravitons".