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Dan Onischuk

SATURDAY, JULY 14, 2012

CERN Proton Accelerators - Limits of Ignorance

The single photon interference pattern experiment ([David Deutsch, The Fabric of Reality](#), Penguin books 1997 - see Timeline by Michael Chrichton p.129,130,495) is known science that [space-time foam](#) theory postulates adjacent universes and mutual interaction among similar universes. That experiment lends credence to the theory that every time an accelerator particle is created or destroyed by us, multiple universes will create/destroy particles that interact - and possibly may constructively interfere and may possibly cumulatively converge in our universe, or that we may stimulate a cumulatively destructive event in other similar universes that may have a "tumbling domino" effect back to our universe (Quantum Entanglement or simply resonance in a closed energy system as the Deutch experiment implies). Will we be projecting hazardous event probabilities into [other universes](#) ? [Scientists just don't know](#).

(["Privileged Character of 3+1 Space"](#) bottom right graphic of multiple unstable and unknown areas). One hundred years ago, Einstein was believed to have solved the universe, yet time has shown us greater complexities, and extremely high powered accelerators now tread in deadly areas of ignorance - extreme caution must always be the priority. We should not allow the curiosity or arrogance of present day scientists to make dangerous assumptions "in the name of science" for as the book 101 Theory Drive (Dr. Lynch-brain memory functions) has clearly shown, almost every aspect of scientific community research is tainted by arrogance and desperate grasping for funding via publication recognition that is dominated by the peer reviews that are controlled by publishers and those established who want to defend outdated ideas mainly to protect their own interests and funding. Tragically, we pay rock stars and athletes far more than most research scientists, MDs and dentists - the key people of society that enable progress for all. We need to retool scientific research reviews, publication and funding.

I ask Bill and Melinda Gates to start a brain trust award to outshine the Nobel prizes - a \$5 Billion "Gates Science Award" endowment fund that would award \$200 million per year to the top 100 scientific achievements. Particle physics science is still in an infancy stage, including theories that will likely be replaced.. Today the [causality model](#) with fractal properties is very appealing to me and intuitively sensible as nature simply reuses established principles already observed in nature also noted in Chriton's book Prey" and in Lynch's book as well. So more efforts should be made to better understand the self organizing, collective emergent intelligent behaviours exhibited in swarms, colonies of the natural world to better understand the causal universe. The causal-fractal universe implies there are a multitude of proximate and

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sub-fractal structures we may affect without even considering n-dimensional fractal space possibilities or adjacent fractal spaces. A few years ago, one scientist quoted the odds of the CERN accelerator creating a black hole **as one in 50 million** - those lottery odds accept that eventually somebody does win. Who can say whether higher TEV levels will create **a stable black hole** or a stable hole in space-time here on Earth? **A massive space hole** 1 billion light years across was recently found. The 1 TEV limit should be maintained until more substantial theories can justify higher energy exploration. Ultra-high powered particle accelerators should be restricted to off-planet research. Scientists should focus on miniaturizing such accelerators for off planet deployment (funding via military weapons research) or finding observable sources in the universe around us. We have one planet - lets not let some over-eager scientists blow it for us all.

***** Postscript *****

I think the David Deutsch theory for single photon interference is poorly understood science, yet this simple phenomenon created a half-baked theory from a reputable scientist and authors (Chriton-Deutsch), and has puzzled other scientists for many years. As I woke 21 July 2012, I came to realize the single photon experiment simply proves (to me) that light photon particles inherently travels as waves. Because the distance is so relatively vast from the source to slits to the wall, the photons have time to exert their wave properties. If we were able to use a colimated cohort (laser) light source, perhaps this phenomenon would no longer be observed - providing that the distances were relatively small compared to the light beams modal dispersion that would enable the photon wave function to exert itself. Note that we could not simply create time sampling intervals to approximate single photons, as doing so would effectively be sampling function of a wave form which would also sample the characteristic photon wave curvature properties (notwithstanding sampling function shannon-nyquist limits for waveform reconstruction which would likely not apply at a photonic level). (july 26- found this **interesting experiments** yet wonder that although we can impose a behavioral mode upon particles (in a causal universe of entanglement) that may not necessarily remove those particles or entangled particles inherent behavioral properties (that eventually emerge) any more than making an atheist go to church or to recant their views of non-heliocentricity). This all tends to reinforce Causal theory of a multitude of fractal universes - which debunk wormholes in space unsupported theory and space-foam multiverse theories of the respected professor- physicist Wheeler who failed to grasp (or admit) the simple fact that if light cannot escape a black hole that created a wormhole, then how can anything more massive ever escape ? science should not cross-over to realms of voodoo like beliefs which dominant personalities and media enticing pet theories tend to enable unhealthy unrealistic expectations in society. e.g. most people believe space colonization per Star Trek is just around the corner, and so this unrealistic societal belief causes us to be more wasteful and accepting of pollution, species annihilation and environmental degradation. The truth is that it is going to be many millenia before we get to any life sustaining planet - it will take a long time to terraform Mars to be habitable (not even close to the lush healthy planet we have now - see recent Biosphere experiments failures trying

to simulate a closed habitat here on Earth). More to my earlier point, if brilliant physicists like Deutsch or Wheeler get so wrapped up in their own media-attention grabbing pet theories (like us all, a human condition) so they cannot see the obvious in a single photon experiment, or wormholes in space, then what lies ahead for more complex experiments in the realm of high-energy accelerator experiments ? Microsoft with all its vast wealth, time and manpower still cannot build a flawless computer operating system (I calculate that over the past 10 years that Microsoft worldwide has caused the loss of over 100 million hours wasted on "system clock time synchronization errors" blocking operating system updates - just one flaw) - thus my point that i doubt CERN scientists can predict (in self-admitted unpredictable quantum test world) or build software and devices that are 100% flawless to control or deal with each and every unexpected, potentially catastrophic events. I do not intend to be a fear-monger or Luddite in a windmill, but I do think that physicists need to proceed with good healthy caution in all potentially dangerous, potentially irreversible experiments. Quantum Entanglement and particle transporters are the public lure which we all hope works out as scientists want it to, however, some sensible precaution must be taken too ... ***** peace ***** why not spend those billions on solving immedaite world problems like providing clean water and crop seeds for Africa and other poverty areas of the world ? ***** to me a puzzling fact of unexplained science is the phenomenal durability and longevity of photons which having been ejected from distant suns of far galaxies have traveled trillions of miles for millions of years without losing energy or their native base frequency characteristics beyond relativity acceleration effects - really quite stunning when you think of it. i guess space is a near perfect vacuum (so where is all the dark matter concentrated) and photons are so negligible mass and size that there is no appreciable effect even after entering our huge-gap molecules of our atmosphere. perhaps the accelerator can solve those mysteries of the photon.. Perhaps dark-matter is simply the accumulation of ultra-low energy fields of particles that become the graveyard of expended photons and other nearby particles and decaying photons. ** 26 july note: i also wonder if the quantum time fluctuations observed are analogous to the tectonic plates, except instead of being a birthing ground of continents, we are observing the births of a multitude of time quanta (time dimension) that is seeping into our universe and by its proximity and relative magnitude to sub-atomic particles, has a large influence that causes weird particle behaviours - including tachyons apparent backward time-travel. I do believe we need to explore quantum space, and the accelerator is a useful tool. the greatest fear we should have is the excessive number of nuclear weapons awaiting deployment worldwide. and global warming in [antartica](#) and [greenland](#).*****

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