

Cancer Moon Shot

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Abstract -

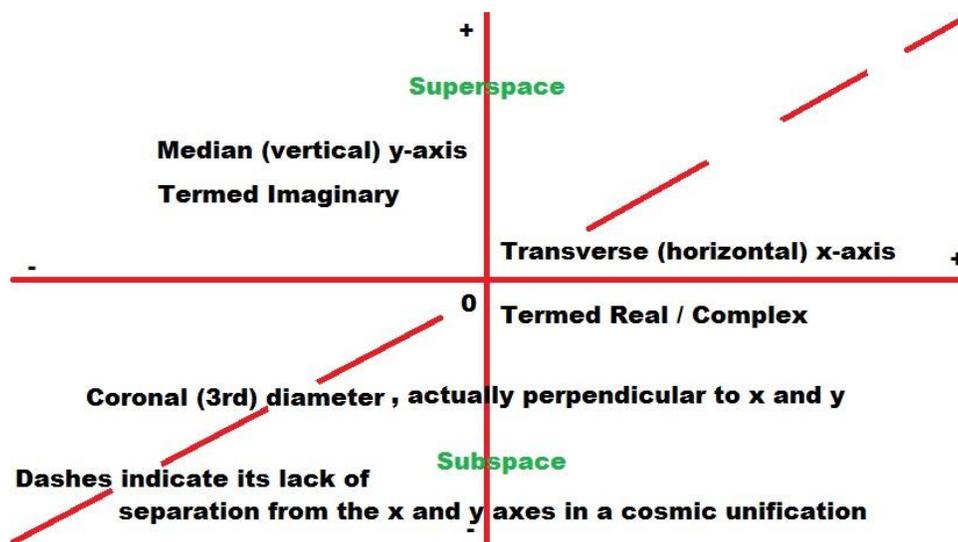
During his State of the Union address on January 12, 2016, (USA) President Barack Obama announced the establishment of a Cancer Moonshot to accelerate cancer research. The initiative—led by (USA) Vice President Joe Biden—aims to make more therapies available to more patients, while also improving our ability to prevent cancer and detect it at an early stage. (<https://www.cancer.gov/research/key-initiatives/moonshot-cancer-initiative>). Here's an interdisciplinary approach to defeating cancer – indeed, illness and death regardless of cause – that puts together a lot of previously written material of mine. It relies not only on biology but also on physics, mathematics - and even topics such as gravity, cosmology and radioactivity. Albert Einstein, one of the world's greatest physicists, once said he regretted not being able to make a bigger contribution to medical science. Over 60 years after his death, the time may be ripe for his theories to take part in solving perhaps the greatest challenge facing modern clinical medicine – cancer.

Article -

SOME PHYSICS BACKGROUND

The 2012 article “How Einstein Discovered Dark Energy” by Alex Harvey (<http://arxiv.org/pdf/1211.6338v1.pdf>) states, “Recall that in 1918 the only elementary particles known were the electron and the proton. Physicists were attempting to understand why these were stable despite their internal electromagnetic repulsion. Most attempts were based solely on electromagnetic theory. For a review of these efforts see W. Pauli, Theory of Relativity, Pergamon Press, London (1958). See Part V, p.184 ff]. Einstein’s effort was to construct a model in which stability was achieved through the use of gravitational forces. In particular, he used modified gravitational field equations which included the cosmological constant [A. Einstein, “Speilen Gravitationfelder in Aufbau der Elementarteilchen eine Wesentliche Rolle” (Do gravitational fields play an essential role in the structure of elementary particles), Sitzungsberichte der Preussischen Akademie der Wissenschaften, (Math. Phys.), 349-356 (1919) Berlin].

The attempt is presently regarded as a failure because today's physics says the atomic nucleus is held together by the strong nuclear force (Einstein's paper was written before discovery of the nuclear force in the 1930's). However, to summarize the next few paragraphs, it seems to imply to modern science that the 2 nuclear forces are not fundamental but, like the matter they're associated with, are products of gravitational - electromagnetic interaction (a coupling capable of producing the mass of W and Z particles as well as Higgs bosons). This agrees with theories in which the role of the mass-bestowing Higgs field is played by various couplings (see M. Tanabashi; M. Harada; K. Yamawaki. Nagoya 2006: "The Origin of Mass and Strong Coupling Gauge Theories". International Workshop on Strongly Coupled Gauge Theories. pp. 227–241).



THE COMPLEX NUMBER PLANE, INCLUDING "IMAGINARY" TIME

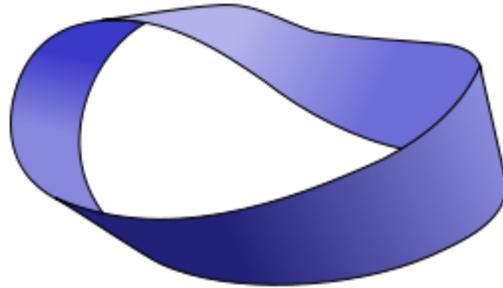
I never mean to suggest that extra time and extra space dimensions are not real. Such confusion seems possible because of my reference to the Complex Number Plane's imaginary time. When Max Planck originated the idea of quanta to solve the ultraviolet catastrophe, I'm sure that idea (like so-called "imaginary" time) was initially thought of as a mathematical trick. Albert Einstein thought differently about quanta, and developed his photoelectric effect. So it appears entirely possible that imaginary time and the Complex Number Plane will find practical application in the future, at which point they'll cease being mathematical trickery and analytic continuation. Imaginary time will be a real, large-scale thing: with the word imaginary being only a poorly chosen adjective, and a relic from history.

Professor Itzhak Bars from the University of Southern California has written, "the role of 2Tphysics (two-time physics, an extra dimension to the time we know) is to unify various physical phenomena into a more comprehensive and more predictive theory." This sentence can be taken back to the Complex Number Plane if the plane's so-called imaginary time is oneday accepted as the real second time. And referring to John Cramer's Transactional Interpretation of Quantum Mechanics/the Wheeler-Feynman absorber theory, the Plane could unify various phenomena in the following way – electromagnetic waves could travel forwards in time along the right-hand direction of its x-axis, and they could travel back in time in the left-hand direction. Albert Einstein's equations say that in a universe possessing only[^] gravitation and electromagnetism, the gravitational fields carry enough information about electromagnetism to allow the equations of James Clerk Maxwell to be restated in terms of these gravitational fields. This was discovered in by the mathematical physicist George Yuri Rainich: Transactions of the American Mathematical Society 27, 106 - Rainich, G. Y. (1925).

So there are 'advanced' gravitational waves going back in time ... these could be called antigravity. Antigravity has been equated with dark energy and, if real gravity is involved in ordinary matter's mass-production, antigravity would conceivably be involved in the massproduction of other matter called "dark" (which would not be WIMPs, sterile neutrinos, axions or any particles that travel forwards in time).

RADIOACTIVE DATING AND TOPOLOGICAL COSMOLOGY

Every type of radioactive dating (eg potassium-argon or uranium-lead etc to date rocks, carbon-14 to date organic material) produces erroneous results since it does not include gravitation playing a role in matter, nor the travelling back in time of gravitational waves. If all the radiation and emitted particles from a radioactive meteorite used to date the solar system were going forward in time, the result certainly could approximate 4.5 billion years old. If 100% of the rays and particles were going back in time, the solar system's age would be calculated to be zero. In reality, some waves/particles are going forward and some are travelling backwards. So the truth is that our Sun and planets etc are aged somewhere between zero any-kind-of-units and 5 billion years. By the way - if matter's composition is a gravitational-electromagnetic coupling, and if both gravitational and electromagnetic waves can travel forwards and backwards in time, then all matter has the innate ability to defy modern physics and journey into the past (the importance of this will become apparent in the final paragraphs of this article).



Möbius Strip

A plausible structure of space-time is one agreeing the new theory of gravity proposed in "Emergent Gravity and the Dark Universe" by E. P. Verlinde, 7 Nov 2016 (arxiv.org/abs/1611.02269). According to Verlinde, gravity is not a fundamental force of nature, but an emergent phenomenon. In the same way that temperature arises from the movement of microscopic particles, gravity emerges from the changes of fundamental bits of information, stored in the very structure of spacetime.

Read more at: <http://phys.org/news/2016-11-theory-gravity-dark.html#jCp>

According to "Cancer Moon Shot", these fundamental bits of information are electronics' binary digits plus topology's Möbius Strips and figure-8 Klein bottles. Matter particles are described as spin $1/2$ and need to be turned through two complete revolutions to look the same*, plus it's necessary to travel around a Möbius strip twice to reach your starting point.

* "A Brief History of Time" by Stephen Hawking (Bantam Press, 1988): pp.66-67

It therefore appears that electrons and all particles of matter could possibly be composed of Möbius strips. A step up from the Möbius would see the strips combine into four-dimensional figure-8 Klein bottles before reaching the scale of subatomic particles [Polthier K, "Imaging maths - Inside the Klein bottle" - <https://plus.maths.org/content/os/issue26/features/mathart/index>], and a step down could see the strips becoming programs consisting of electronics' binary digits 1 and 0 ordered (organized) in the shape of the Möbius. Let's borrow a few ideas from string theory's ideas of everything being ultimately composed of tiny, one-dimensional strings that vibrate as clockwise, standing, and counterclockwise currents - "Workings of the Universe" by Time-Life Books (1991, p.84). One Möbius-strip program could be coded clockwise, another anticlockwise, and their interaction would produce a Möbius possessing a standing current of streaming binary digits.

The theory of supersymmetry (SUSY) relates the two classes of elementary particles – bosons (force-carrying particles) and fermions (particles of matter). This commentary relates fermions (matter particles) to binary digits and the Möbius strip via Professor Hawking's book "A Brief History of Time". The world's largest and most powerful particle collider, the Large Hadron Collider (LHC) on the France-Switzerland border, has found no evidence for supersymmetry thus far and some physicists have decided to explore other ideas (Ellis, John: "The Physics Landscape after the Higgs Discovery at the LHC": 14 April 2015: www.arXiv:1504.03654). So the commentary doesn't relate fermions to bosons through SUSY but through the Möbius, which means the structure of e.g. light's photons is also nonorientable: each of them includes the orientation-reversing curve of the Möbius strip and the Klein bottle.

The figure-8 Kleins compose all particles, fermionic and bosonic, as well as the Virtual Particles filling space-time: and the figure-8 version is implied because it resembles spiral galaxies and cosmology's hypothetical doughnut model of the universe ("What Shape is the Universe?" by Vanessa Janek: (May 11, 2015) http://www.universetoday.com/120157/what-shape-is-the-universe/#google_vignette). Figure-8 Kleins include **red positive curvature** in their shape which creates the curvature of space around Jupiter that refracts quasar signals. This combines with the **blue negative curvature** in other Klein bottles to ultimately create the large scale flatness of space-time's infinity and eternity.*

* "The evidence keeps flooding in. It now truly appears that the universe is infinite" and "Many separate areas of investigation – like baryon acoustic oscillations (sound waves propagating through the denser early universe), the way type 1a supernovae compare with redshift, the Hubble constant, studies of cosmic largescale structure, and the flat topology of space – all point the same way." ("Infinite Universe" by Bob Berman: "Astronomy" – Nov. 2012)

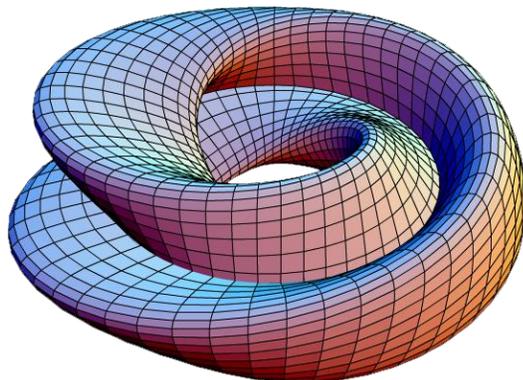


Figure-8 Klein Bottle

POSSIBLE CANCER CURE AND IMMORTALITY IMPLEMENTER

Radiodating's erroneous results must refer not only to radioactive meteorites but to any form of matter or radiation - including light and all other electromagnetic waves, sonic waves, gravitational waves, CT scans - even blood tests and doses of medicine fail to take into account the gravitational composition of matter or the travel back in time of some of those waves.

What does this mean for scientists and medical doctors? Scientists need to become theoreticians who can see beyond what their eyes reveal. They need to be able to see more than the traditional, accepted frame of reference because all those observations - all those scientific detectors and instruments - simply aren't good enough (at present) to give the needed results.

Doctors aren't getting satisfactory results, either. Sure, they can do wondrous treatments and keep disease - even cancer - at bay. But their labs need to differentiate between those "retarded" and "advanced" waves, then apply that difference to their clinical practices, instead of assuming pathology tests reveal everything. The wave-particle duality discovered by physics means that blood tests are just as susceptible to "erroneous results" as X-rays in a CT scan.

With the proper results, doctors might well cure or prevent cancers, and eliminate death from any cause. The wave function of diseased or injured cells in a body could either 1) be transported along the right-hand direction of the Number Plane to a point in the future when the malfunction has been corrected, or 2) be transported in the Plane's left-hand direction to a position in the past existing prior to the problem's origin. Whichever method is used, the cancer-free cells are then returned to their original location and this temporal therapy – in which your brain and body are entangled with all time and all space[^] - succeeds where surgery, immunotherapy, chemotherapy, and radiotherapy may have failed.

[^] This unification is compatible with the earlier statement, "The figure-8 Kleins compose all particles, fermionic and bosonic, as well as the Virtual Particles filling space-time". Another viewpoint is: distance may not be perceived correctly by our senses. Referring here only to the sense of sight – think of optical illusions or the way parallel lines appear

to meet when they're visually farther away. The distances between bodies in space and time would actually be zero (time and space must have the same property regarding distance if they're permanently linked as space-time). Sharing the same property means the distinction between space and time is eliminated (such deletion is a property of imaginary time). Motion is individual computer images, or the individual frames called cells, being rapidly displayed in order to give the impression of movement. Motion's the same as time since displaying frames in one direction is going forwards in time while displaying in the reverse direction is going back in time. Frames = space and motion = time, so frames in motion = living in science's space-time. Movement builds the universe's still images (more precisely: gravitational-electromagnetic interactions which quantum physicist David Bohm called holograms*) into a universe that's dynamic and flexible. And the interaction known as the brain (neuroscientist Karl Pribram called the brain a hologram**) assembles a picture of that cosmos.

*Geoff Haselhurst - "David Bohm and the Holographic Universe" [2005],
http://www.bibliotecapleyades.net/ciencia/ciencia_holouniverse04.htm

** Forsdyke, D. R. [2009] - "Samuel Butler and human long term memory: Is the cupboard bare?", Journal of Theoretical Biology. 258: 156–164. doi:
[10.1016/j.jtbi.2009.01.028](https://doi.org/10.1016/j.jtbi.2009.01.028)

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