

Title

Combining SNACKS FOR THE MIND with EXTRACTS FROM OTHER VIXRA POSTINGS

Author

Rodney Bartlett

Abstract

These are 6 short “Snacks for the Mind” combined with excerpts from “Intergalactic Plus Time Travel; Hyperspace and Space-Time’s Nature”, “Tomorrow’s Science Today”, “A New Earth And A New Universe”, etc. I’ve changed sentences here and there in the last 4, in an attempt to express my main thoughts (they were all very brief at first but #5 has become lengthy and #6 has had a long PS/PPS added to it – the PS talks about immortality while the PPS talks about Infinity, ESP, God and Satan the Devil). The first 2 are things I’ve been thinking about during the last week or two.

Snack #1 - Cancer cells are incredibly difficult to eradicate completely. So let's take a lesson from the martial arts and use their own strength against them. Let them live - but only after they've been bioengineered to mutate back into healthy, functional cells and tissues that reproduce at a normal rate.

Snack #2 - Can radio telescopes and infrared telescopes be adapted to allow amateur astronomers to view celestial phenomena through clouds and rain?

Snack #3 - Reconciling the Dark Flow with the Poincare conjecture and Figure-8 Klein bottles to reinterpret parallel universes, cosmic strings and wormholes.

Snack #4 - Cosmic-Quantum Unification and Einstein being centuries ahead of his time + Intergalactic and Time Travel

Snack #5 - MOND (Modified Newtonian Dynamics) that fits in your pocket or purse; $De=Hv+G$ (Dark Energy = Hidden Variables + Gravitation)

Snack #6 - God's existence proven by combining the inverse-square law with quantum entanglement! This Physics of the Impossible means evolution is not the Origin of Species - origin is due to a suprapantheistic unity of spacetime's spatial, temporal, hyperspatial, material, personality and mental parts; forming a union with humans in a cosmic unification (we know this as God). But "evolution" is still responsible for changes (adaptations) within species.

Content

1) I've been doing a lot of thinking about medical oncology in the last four years; inspired by Dr. Sorour, and colleagues, of Toowoomba Qld. Australia and (previously) by Dr. Atkinson of Woolloongabba Qld. Australia. I sometimes find it difficult to express myself using speech but am much better at expressing my thoughts when I can sit in front of my computer keyboard and spend all the time I want typing and looking up things in books or on the Internet. So I'm writing this short query to ask you if there could possibly be a future treatment for all forms of cancer that involves bioengineering which causes beneficial mutations that convert malignant, out-of-control cells and tissues to healthy, functional cells and tissues. This possibility occurred to me because a) while most mutations are harmful, a tiny number are not harmful; and b) researchers are already able to change tissues into different tissues e.g. skin into sperm.

2) Radio astronomy has the advantage that clouds and rain do not affect observations. Infrared radiation can penetrate the gas and dust clouds that hide objects in space (space-time, to be more precise). Though these telescopes must be physically larger than an optical telescope to be able to make images of comparable clarity, could they be adapted to enable amateur astronomers to view a solar eclipse through clouds and rain?

3) Discovery.com (March 18, 2010) says: "The universe is not only expanding -- it's being swept along in the direction of constellations Centaurus and Hydra at a steady clip of one million miles per hour, pulled,

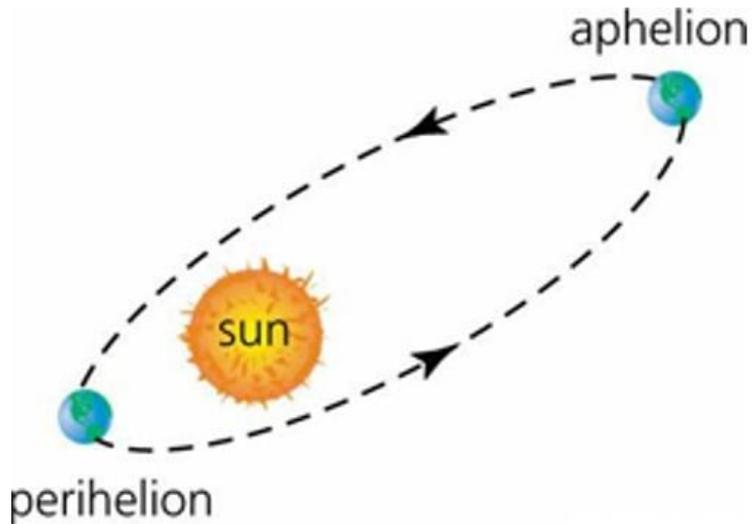
perhaps, by the gravity of another universe." (this is called "the dark flow") Could this be describing evidence of an idea suggested by mathematics' "Poincare conjecture", which says you cannot transform a doughnut shape into a sphere without ripping it? Maybe the known cosmos is actually one of infinite subuniverses shaped like a Figure-8 Klein Bottle (whose shape reminds me of a doughnut) gaining rips called wormholes when extended into the infinite spherical spacetime that forms one superuniverse (whose infinity prohibits other universes existing - discovery.com's "another universe" would be another subuniverse). Wormholes might exist in a 5th dimension, and the boundary where subuniverses meet could be called a Cosmic String (boundaries would be "cracks" in spacetime formed as subuniverses cool, analogous to cracks that form when water freezes into ice).

- 4) Gravity and light are 2 basic parts of the universe. Could Einstein's aim of uniting electromagnetism (light is one form of this) and gravitation be related to electrical engineering's Optical Effect which says that, on silicon chip-and transistor-scales, light can attract and repel itself like electric charges/magnets. Achievement of Einstein's Gravitational-Electromagnetic Equivalence means gravity could, on quantum levels, also attract and repel itself. General Relativity says gravity is the warping of space-time, so space and time could be made to attract and repel at quantum levels (and quantum levels make up all time plus the entire universe). Distances between points billions of light years apart, or between the past and future, might therefore be eliminated. Suppose Einstein was correct in believing gravitation and electromagnetism are related. Then we might be able to say electromagnetism is merely modified gravitation. Suppose he was also correct when he said gravitation plays a role in the constitution of elementary particles (proposed in a 1919 submission to the Prussian Academy of Sciences). Not only would the Higgs field and boson become history; gravity might also play a role in constituting the nuclear strong and weak forces that allows us to say the nuclear forces are modified gravitation, too. Then there would not be 4 fundamental forces, or even the 2 of gravitation and electromagnetism, but only the 1 called gravitation. Would this 1 force introduce a Unified Field Theory and a Theory of Everything? True, there are plenty of unproven possibilities here – but I suspect Einstein will sooner or later leave modern science far behind, and show himself to be perhaps centuries ahead of his time.

5) Could mysterious dark energy actually be familiar gravity? Hidden variables is an interpretation of quantum mechanics which is based on belief that the theory is incomplete (Albert Einstein is the most famous proponent of hidden variables) and it says there is an underlying reality with additional information of the quantum world. I suggest this underlying reality is electronic binary digits of

centuries to come. If gravity is actually repulsive, it would cause universal expansion (accelerating expansion if more gravity is continually produced by quantum mechanical Hidden Variables that are actually binary digits). Simultaneously, dark energy/gravitation causes attraction in the solar system by

a) pushing planets toward the sun (planets' orbital speeds prevent them falling into the sun)

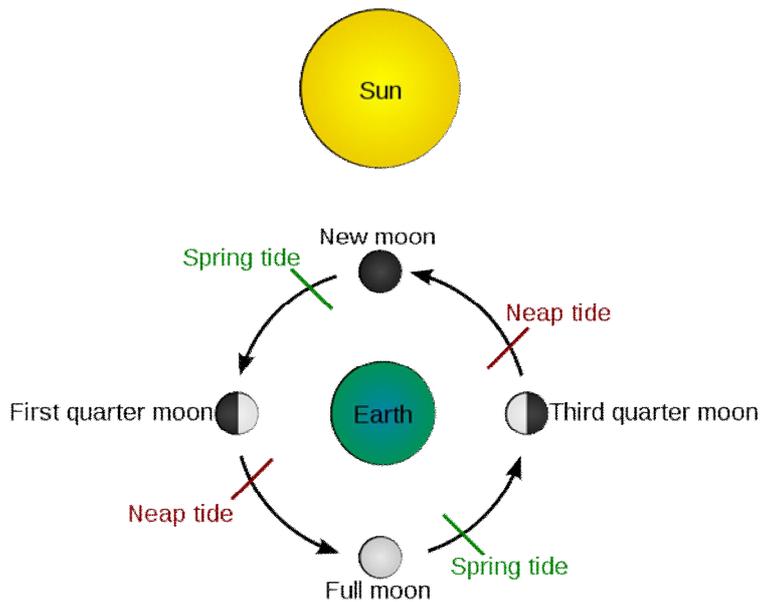


As gravitational waves travel from the outer solar system towards the sun (as a starting point, let's say they're coming from the lower left in this picture), they'd push the orbiting Earth to aphelion, its farthest distance from the sun – 152 million km. But gravity waves are also coming towards the sun from the aphelion direction. So Earth's progress to the upper right is stopped and it follows the line of least resistance to waves pushing it from both the lower and upper directions – this corresponds to the path indicated by the arrow pointing left. When it reaches perihelion (its closest approach to the sun – 147 million km), the waves from the right are pushing it back while waves from the left are pushing it forward. Our planet follows the boundary between waves assaulting it from opposite directions and its inertia compels it to follow the arrow pointing right. Upon reaching aphelion again, the tug-of-war (oops, I mean push-of-war) continues and Earth's momentum causes it to go left. We mustn't forget the waves that are coming from the outer solar system perpendicular to the waves already mentioned. They push Earth towards and away from the sun at both its perihelion and aphelion points. The balance between these forces reinforces the planet's tendency to stay in the illustrated orbit. The sun's position in the illustration is exaggerated – it should be closer to the centre of the ellipse since the difference between perihelion and

aphelion is only about 3%. The existence of this difference would rely on the planet manifesting as a multitude of matter-forming wave-packets which divert some gravity waves to every point from the top of the atmosphere to the centre of the inner core – thus slightly upsetting the balance of gravity waves from opposing directions at Earth's particular location relative to the sun.

b) pushing objects toward the centre of Earth (where I suggest gravitational waves cancel and, agreeing with conclusions from Isaac Newton's theories, objects weigh nothing) and

c) being diverted to the sun's and/or moon's centre by the formation of wave packets (subatomic unions of gravitational and electromagnetic waves which account for mass). At first and third quarter, diversion by the moon lowers the push of gravitational waves travelling from the outer solar system to reach Earth via the moon. This push keeps ocean tides low – and permits neap tides (which aren't as high as spring tides). At full and new moon, some of those gravity waves from the solar system's edge are diverted both by the moon and the sun. This causes a more noticeable decrease in gravity's push against the earth and permits a spring tide. If the sun and moon were the same distance from earth, the sun would exert about 27 million times as much tide-producing force as the moon. But the sun is about 390 times as far away as the moon. If the distance of a body from the earth could be doubled, it would only exert one-eighth as much tide-producing force on earth. As a result, the tides caused by the sun are only 46% as high as those caused by the moon. (the previous 4 sentences are from "World Book Encyclopedia": the article "Tide" by professor of oceanography Robert O. Reid – we keep it simple by speaking of sunrise and sunset instead of lecturing, in everyday speech, about earth orbiting the sun; so let's continue to keep it simple by speaking of the sun [and moon] producing tides instead of lecturing, in everyday speech, about gravitational diversion) The more mass a body possesses, the more gravitation is diverted to play a part in that body's formation; though the International Space Station weighs around 400 tons, it has tiny mass compared to any planet and produces so-called weightlessness while black holes – ranging from about 3 solar masses for the smallest stellar variety to billions of solar masses for supermassive black holes in galaxy centres – have so much mass and diverted gravity that light pushed into them is unable to escape (black holes appear to have no electromagnetism of their own – their electric and magnetic properties come from the matter they swallow).



6) In today's world, atheism may be reasonable and scientific. But is it correct? Will the world of tomorrow scientifically prove that God exists? In the 17th century, Isaac Newton formulated the inverse-square law. The law says that if stars A and B emit light of equal intensity but star B is twice as distant, it will appear one quarter as bright as star A i.e. not the square of 2 (4) but the inverse square of 2 ($1/4$ or one divided by four). It also says the gravity between any 2 objects is only one quarter as strong if the distance between the objects doubles. The inverse-square law further states that the force between two particles becomes infinite if the distance of separation between them goes to zero. Zero separation is the case in quantum-entangled space-time and physicist Michio Kaku says in his book "Physics of the Impossible" that modern science thinks the whole universe has been quantum-entangled forever. This means there's room for the infinity known as God. God would be a pantheistic union of the universe's material and mental parts, forming a union with humans in a cosmic unification.

PS Thinking about what's been written here leads to the conclusion that we all have eternal life. Let me explain - #6 says humans are unified with the universe. #3 says space and time are infinite (this is indeed possible according to physics and mathematics). It seems logical to believe the universe is, by definition, everything that has or does or will exist and that there can be nothing outside the universe. For this reason, "multiverse" and "parallel universe" appear to be misleading terms that were replaced in #3 with "the known cosmos is actually one of infinite subuniverses shaped like a Figure-8 Klein Bottle" and "discovery.com's 'another universe' would be another subuniverse." The hidden variables that are the electronic binary digits of centuries to come (#5) could exist in a 5th-dimensional hyperspace (#3). In a universe described by fractal

geometry, the 5th dimension wouldn't exist only on a cosmic scale but also as a hyperspace in every fermion (matter particle) and boson (force-carrying particle). Binary digits would allow time travel by making it possible to warp space, simultaneously adding precision and flexibility to the elimination of distances and the “fitting together” of subuniverses to form a continuous universe.

If humans are unified with an infinite universe, every one of us must possess infinite (immortal) life. Everyone knows that life is full of twists and turns, so we should not expect immortality to be a simplistic matter of having an eternal spirit or soul which lives on after death. What then? Think about this alternative –

When we die, we're dead. There's no life or consciousness at all. But sometime in the distant future, doctors and scientists discover how to resurrect us – possibly, they could use time travel (#4) to obtain a copy of our minds which could be downloaded into a clone bioengineered to be free of defects so it would be healthy and moral. The resurrected self would be capable of returning to the point of death (even an eternity before that), and thus having immortal life.

PPS But if people are unified with an infinite universe, the relationship could not be just with time – it necessarily extends to space because Albert Einstein showed that space and time cannot exist independently of each other (they form space-time). Everyone (along with everything) merges, and there are no gods - only what is called God, existing everywhere ... even beyond space and time (in hyperspace, responsible for Creation). The universe (space-time-hyperspace) is divided and subdivided into complementary positive and negative, light and dark, male and female, yin and yang – we can describe the positive as God+God's helpers, while the negative can be described as Satan+the Devil's helpers. If suprapantheistic God has personality and consciousness, why wouldn't suprapantheistic Satan also have them – don't forget that both (erroneously labeled supernatural) beings are necessary to make the cosmos function properly. Since each one of us will have access to every point in space-time (in quantum mechanical terms, we'd be in more than one place – actually, in infinite places – at the same time), everyone would inhabit every subatomic spot in everyone else and everything else. The merging would affect everyone and everything that ever existed, or ever will exist. God would be eternal. The continuing, accelerating expansion of space-time* which results, in the never-ending future**, in an infinite universe instantly ripples back in time (see “retrocausality” near end of article) and means the cosmos has always been infinite.

* This acceleration was discovered in 1998 by observations carried out by the High-z Supernova Search Team and the Supernova Cosmology Project, has been confirmed several times and is claimed to be caused by mysterious “dark energy”.

** Page 118 of Stephen Hawking's/Leonard Mlodinow's "The Grand Design" (published in 2010 by Bantam Press) says "M-theory (that theory which string theorists now consider fundamental) has solutions that allow for many different internal spaces (the curling up of extra dimensions into tiny, invisible spaces), perhaps as many as 10^{500} , which means it allows for 10^{500} different universes, each with its own laws." My article suggests there is only one extra dimension and only one universe, with one set of physical laws. 10^{500} would therefore refer to either the number of subuniverses existing in space at present or to time (space's "other half") and the number of "frames" existing in the cosmos at present (or both subuniverses and frames, since space and time can never be independent of each other). Could this unbelievably enormous number also be known as infinity? Infinity will increase in the future when hyperspace transmissions produce more space and time - this is somewhat like the subset of all integers [1, 2, 3, etc.] extending to infinity yet that infinity being smaller than the infinite subset of all decimals.

But what about the statement "The continuing and accelerating expansion of space-time which results in an infinite universe instantly ripples back in time and means the cosmos has always been infinite"? This means quantum processes wouldn't be confined to tiny subatomic scales but would also occur on large macroscopic scales. In turn, this means 1) the Optical Force would not be restricted to microscopic scales but could operate universally, and 2) embryonic development would follow rules of quantum entanglement[^] and retrocausality or backward causality[^] in a real sense, even though we can't perceive it that way. How could an embryo (indeed, a fully formed plant or animal) exist simultaneously with its egg cell? Suppose time is like the playing of a DVD or video tape. The entire disc or tape obviously exists all the time. But our physical senses can only perceive a tiny part of the sound and the sights at any fraction of a second. (How can travel into both the future and past not be possible if ALL time always exists? Feedback MUST always exist between string-sized bits in the UNIFIED universe created by binary digits. [Since quantum processes occur on scales up to, and including, the cosmic; egg cell and adult would, defying our senses and experiments, instantly affect each other and thus actually coexist – in different times - in this cosmos **unified by binary digits' production of gravity, the universe's foundation.**] The feedback between bits would keep the past from changing from what history has recorded and stop the future from changing from its glorious destiny; like a digital thermostat regulating a hot water system and keeping the temperature constant). And if DVDs themselves could be said to correspond to our spatial and temporal environment along with our bodies and brains, could the laser which reads the data on the disc correspond in this analogy to consciousness? In a cosmic-quantum unification where all parts of a disc – and its player's laser - form a unity; wouldn't it be possible for consciousness to read data from anywhere on a disc (suggesting consciousness is not limited to sensory perception)?

[^] Quantum entanglement permits a distant event to instantly affect another even

if they're separated by light years.

^ Promoted by Yakir Aharonov, the Israeli physicist specializing in quantum physics [and other scientists], this states that effects and causes are not necessarily separated and can instantly interact.
