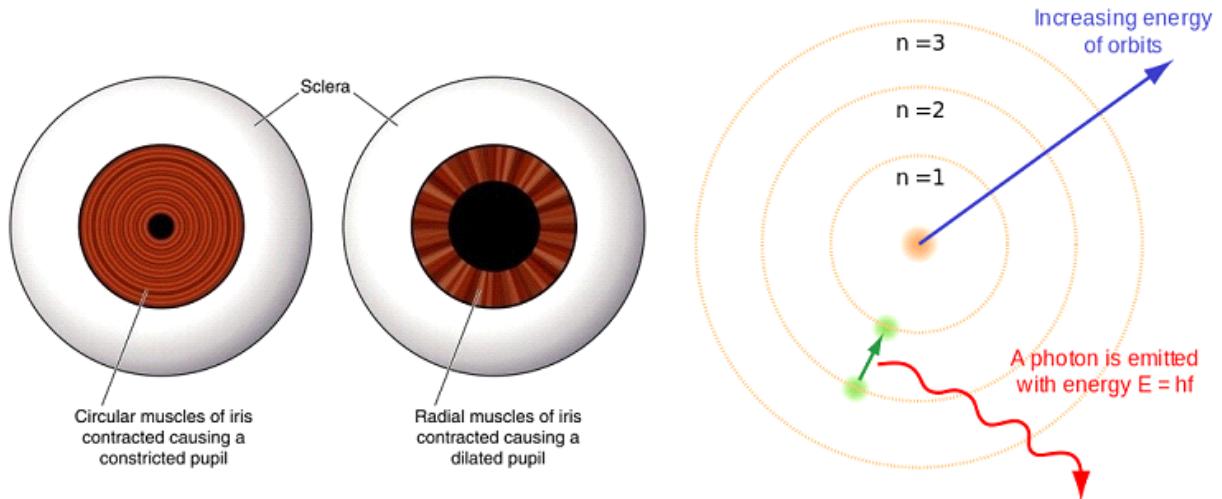


LUMINAL MISNOMER

AND TIME DILATION, LENGTH CONTRACTION.

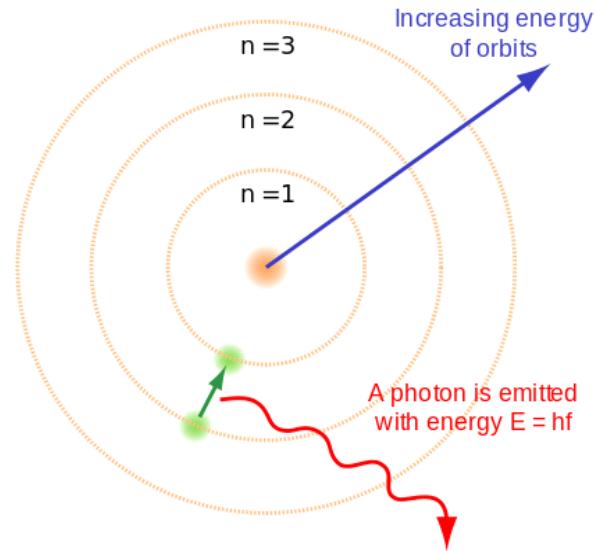


they say time is the fourth dimension. but it's actually a misnomer to think there is a fourth dimension. light is missing a spatial dimension. completely missing, not contracted, missing. missing the normal (for matter) third spatial dimension is why it goes so fast and doesn't need to accelerate up to light speed. there is no actual length out ahead of it through which it would need to travel. now this next statement is controversial, but should make sense as you read further. the speed of light is infinite, sort of. again, because it is completely missing a spatial dimension. there are literally no distances to anything along the missing axis. light departs and arrives instantaneously. now, this is subtle. in place of the missing spatial dimension, is an infinite time dimension, 90 degrees to its two spatial dimensions. but all that means is that the spatial dimension is missing. no time lapses along the missing dimension.

then why do they say light has a finite speed? that finite speed is relative to matter, atoms, to be explained more later. so both are true, infinite and finite. how can that be? first we need to discuss what time dilation and length contraction are.

first, what does it mean that light's third dimension is an infinite time dimension. it just means its time dimension is not curled up around anything. it just means its time dimension is a straight line. and yes, it is infinitely straight, perfectly. it is perfectly straight because it is the total lack of one of its spatial dimensions, thus nonlocal along one of its dimensions. its velocity along that axis is not technically infinite, it is nonlocal. it is not a velocity because there is no distance along that axis. photons can just pop up anywhere, without traveling the distance between. all of the mysteries of quantum weirdness are answered here, if you can let yourself perceive it. light missing a spatial dimension is not controversial in physics. it has been known with certainty for at least a hundred years.

now, this perfectly straight time line axis, the third dimension of free light, is not the everyday cyclic time of your watch or the solar system, or even atomic time. it is the present moment. it is the actual present moment of reality everywhere in existence. the everyday cyclical time we are all used to, the kind of time that is relative to a reference frame, is when light's wave collapses around an atom, bumping electrons up or down in orbitals. free light's straight third dimension, its time dimension, wraps around the atom as an electron shell. it is then bound energy. its time dimension settles into discrete levels because its waves of electrical and magnetic charge must synchronize as standing waves, like guitar strings. the two spatial axes then spin around the time dimension, which is the electron orbital.



not only have we gotten rid of the misnomer of the fourth dimension, we may be able to dispense with string theory and its extra dimensions, with a clear perception of what is really going on with time and light. can you perceive that free light's intrinsic linear time dimension, wrapped around atoms as electron shells, may be the strings they think underlie everything. but the strings have been under their noses all along, in three dimensional light.

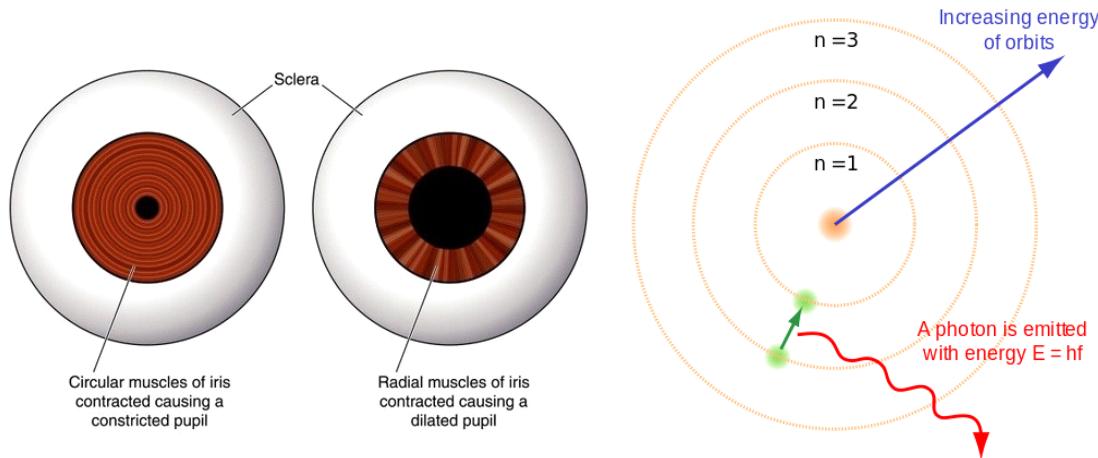
a very subtle point i wish to reiterate is, that the third dimension of light, time, is not actually real, but it has real effects. it is not real because it is actually just the lack of something, the lack of a third spatial dimension for light. string theorists write fancy math about invisible, sort of unreal, strings everywhere, but there is no experimental proof. they say the strings are infinitely undetectable because they are so small, or so thin, and yet can run accross galaxies and further. they say they vibrate, and may be time itself.

well, light's missing spatial dimension fits the bill of being infinitely thin and undetectable. you can't detect what is not there. and what is not there, is light's third spatial dimension. now of course we can never physically detect it, it is a lack. but we have overwhelmingly proved and known for more than a hundred years that light is two dimensional.

all the paradoxes of special relativity and quantum physics fall away with this.

time dilation explained.

time dilates, literally, like the pupils of your eyes enlarge, when length contracts like radial muscles in your eyes. exactly like that. this is not even really a metaphor, but a literal diagram of what physically happens at the speed of light. when atoms are accelerated to high velocity, they encounter and absorb more energy, raising electrons to higher orbitals. those orbitals are then bigger, like your dilated pupils when you are excited. since the electron orbitals are literally light's time dimension, that larger electron orbital is literally the dilated time we speak of in special relativity. but now all the mystery is gone.



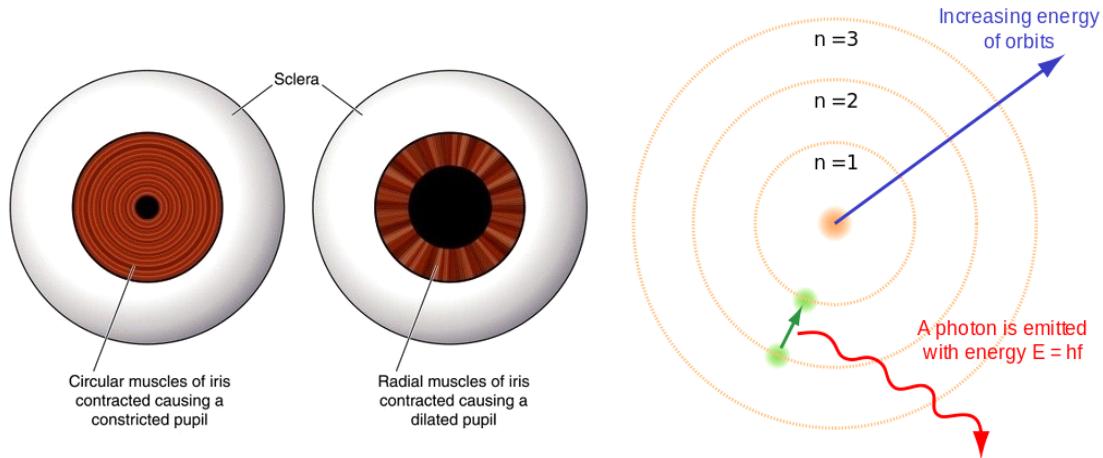
i suppose one mystery remains, why is light two dimensional? but at least it is just one simple mystery, and eliminates all the other complex mysteries. and this single simple mystery is physical fact. the electric and magnetic components of light are its two spatial dimensions. unavoidable, verified fact.

to question why light is missing a spatial dimension, is like asking why GOD doesn't exist? to understand, or at least accept, that light's time dimension is light's missing spatial dimension, is to approach GOD's transcendence, its essence as Being and nonBeing, since light's time dimension is the nonbeing of its missing space dimension. in fact, all of causation itself is in this missing spatial dimension. everything that has ever happened or will happen, is because of this missing link. yet the missing link is real in the sense that it is really missing.

all of the massively complex, mathematical gyrations of string theory, are in this simple realisation. all the extra dimensions of string theory are just adding mathematical complexity, trying to calculate the exact value of pi. a trillion dimensions in math will get you ever closer, but never arrive, because the loops of light's time dimension in electron orbitals, being just variations of circular shapes, involve that number pi. pi is the inherent inability of math to perfectly describe nature. perhaps, a pi based number system would theoretically do the trick, but a pi based number system is impossible in principle, because it would require 3.14 symbols. not a whole number, so impossible. how can you have a system with 3.14 symbols? and this impossibility does not even address the extreme unlikelihood of ever finding the last decimal digit of pi, or at least a repeating pattern. so, a double impossibility, even in theory, of a pi based number system, is the impossibility of a mathematically unified field theory, or mathematical theory of everything.

yet conceptually, unification is here now, the missing third spatial dimension of light. even quantum loop gravity is already here, as all the endless loops of light's temporal strings, all

caused by light's missing spatial dimension. all that is left is saying this over and over in many different ways. it's all the same thing, two dimensional space, which is light, in both bound and unbound strings. in a sense, the temporal strings of light are dragging its two spinning spatial dimensions around as it coils and uncoils, coiling around atoms, and uncoiling out as space, in an endless cycle. atoms are always eating space and spitting it back out. eating space is gravity. GRAND UNIFICATION. but math, with its fundamental, unresolvable flaw, pi, can only approximate, expanding itself to infinite complexity, which never ends, never arrives at a final answer. its not that the answer is not there. math just can't go there. simple conceptual understanding of the missing spatial dimension of LIGHT is already there. all other mysteries subsumed.



ELECTRON SHELL DILATION IS TIME DILATION.

LENGTH CONTRACTION OF ATOMS APPROACHING LIGHT'S FINITE SPEED IS A RAM PRESSURE EFFECT ON THE ELECTRON SHELLS, FLATTENING THE DILATING SHELLS.

THE TWO EFFECTS ACTUALLY OPPOSE EACH OTHER UNTIL THE ATOMS COME APART.

POTENTIAL TIME TRAVEL WAS NEVER THERE, BECAUSE ATOMS CANNOT SURVIVE BEING SQUASHED TO TWO SPATIAL DIMENSIONS, EXCEPT FOR ATOMIC DEBRIS WHICH CONVERTS TO TWO DIMENSIONAL LIGHT.

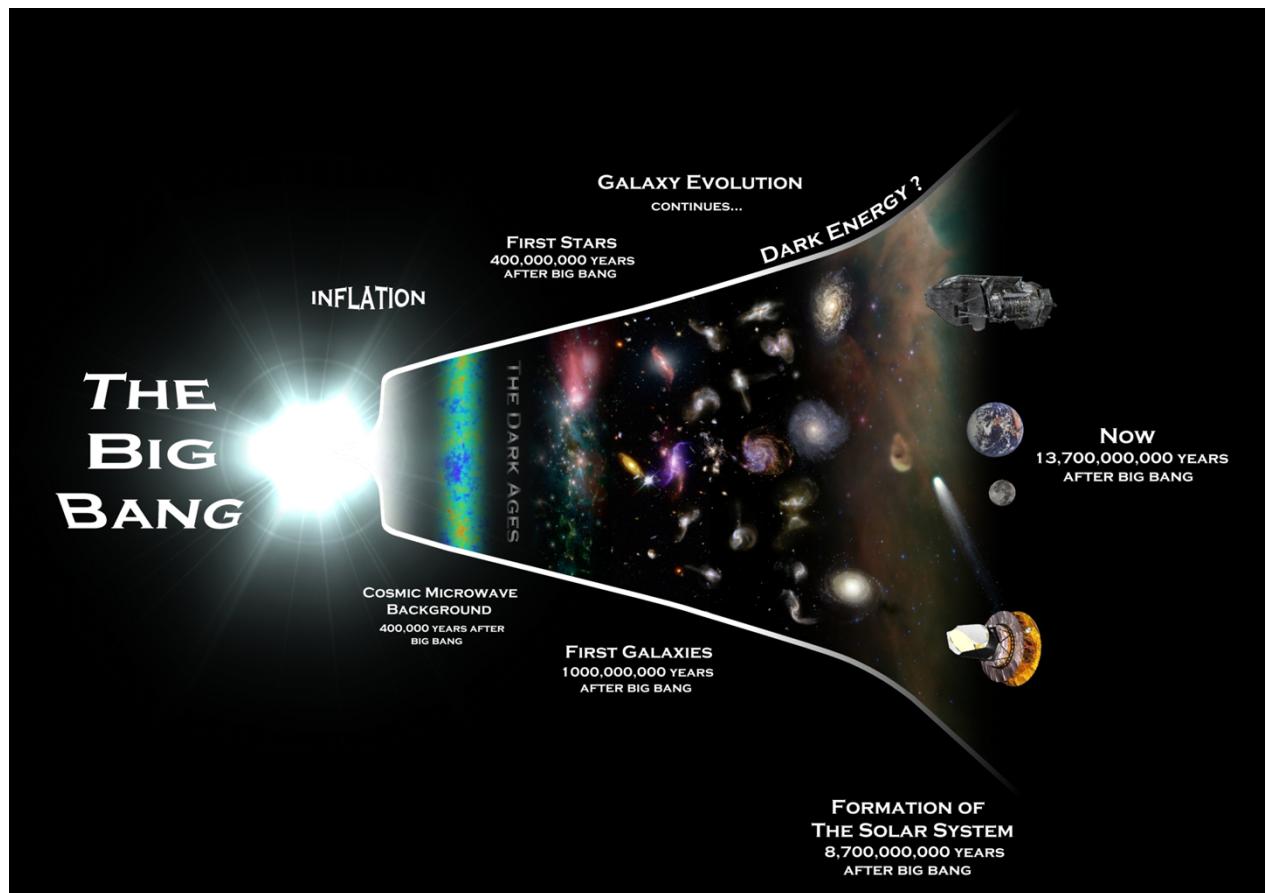
time travel may be available spiritually, but spirituality is also the missing spatial dimension of light, which is sort of nonexistent, in the sense that it is a lack, but the lack itself is real, and has real effects as we have discussed. fresh light from stars, with a momentarily uncoiled temporal dimension, is sort of just saying, to hell with calculating pi.

now as to the possibility of space travel exceeding light's apparent finite velocity, it is theoretically possible, because its finite velocity has a physical cause. light's velocity appears local, finite, because even fresh, newly generated free light from stars, whose atoms have lost their electron shells, is only briefly nonlocal as it leaves the star. as soon as free, nonlocal light escapes its generating star, it loops around atomic nuclei in space, retaining the coiling curves of its time dimension as it propagates through space. it doesn't come straight here because it keeps looping around atomic nuclei during its journey, and can't restore the linearity of its time dimension.

but if a spacecraft hull could be composed of exotic matter like maybe, positronium, matter-antimatter atoms of positrons and electrons, the hull may have no exposed electron shells to dilate, and compress by ram pressure. but positronium atoms have only been sustained for nanoseconds so far, if at all. and the potential to form macrostructures of positronium is only theoretical. if perhaps, in a thousand years or so, it becomes practical to construct a positronium hull, a highly streamlined craft might cut through spacetime, past the speed of light, with a superluminal boom, not unlike the sonic booms of supersonic aircraft.

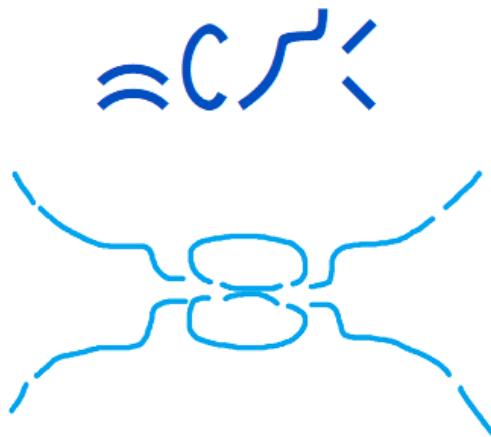
and possibly, a bose-einstein condensate of positronium, could provide the fuel for the thrust needed to push hard past c, light's finite speed. if ever achieved, it will not have anything to do with time travel, just traveling fast, because the time dilation effects, and spatial contraction is shielded against by the positronium hull.

it must be remembered that light has two velocities. a nonlocal potential, and a manifested finite velocity. when free gamma light came out of the big bang, there were no atomic nuclei to force light's missing spatial dimension to coil up tightly into electron orbitals. light then, very briefly, had no finite limit on velocity. hence the rapid, nearly instantaneous inflation of the early moments of the big, big bang.

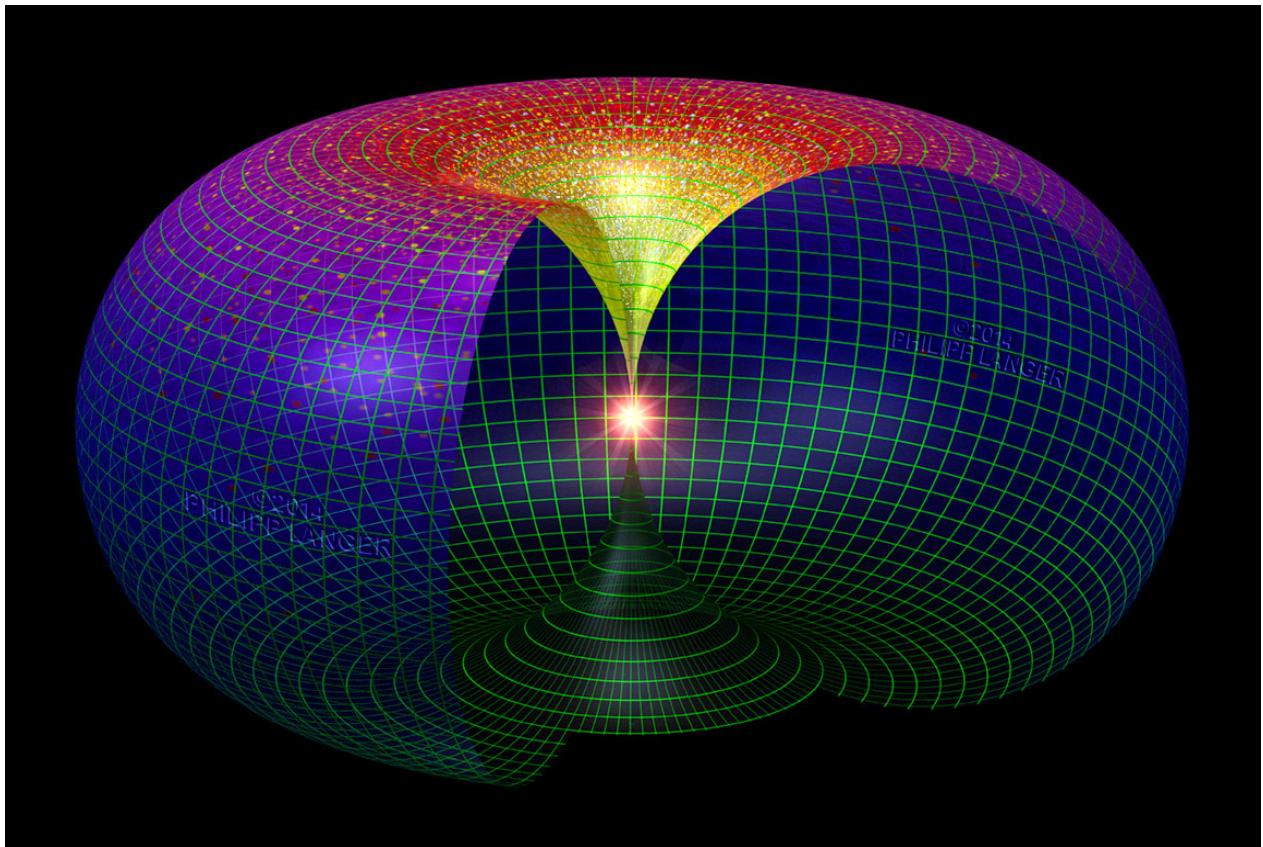


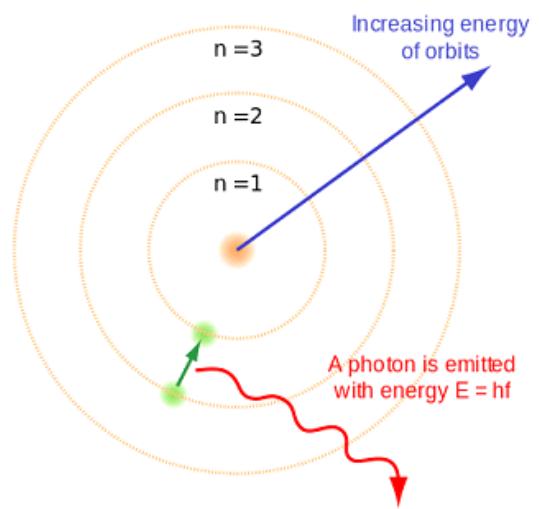
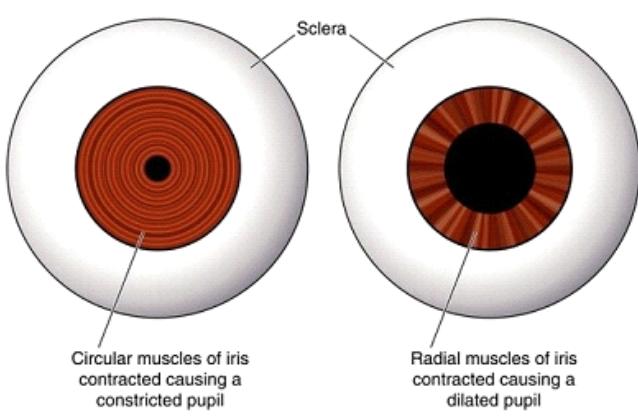
all existence is actually understood in physics to be an antimatter debt. the perhaps biggest unexplained mystery in cosmology is the missing antimatter, which symmetry demands. nature

balances all of its accounts. so the diagram above is probably only half of a universe, half of a duoverse.

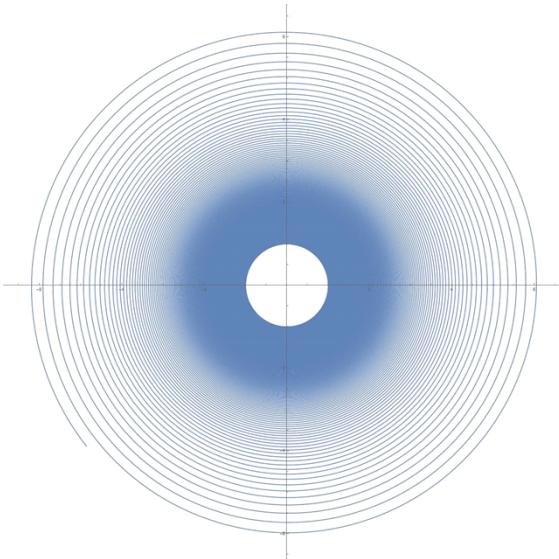


and if the duoverse is shaped like the torus below, a reckoning is ahead. if the bang at the center produced a universe and an anti-universe, a universe out of the top of the torus, and an anti-universe out of the bottom, they will someday meet at the equator. and we will be needing those positronium hulled spacecraft. or just pray to Yah-ew-ay, which may always be a good idea.





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if the absolute impossible were ever to be achieved, in say, a million years, not just spiritually, but physically, time travel, your time craft would need to be the size of a planck length, in a civilization living inside black holes. you would literally be riding cosmic strings, the temporal dimension of light. you would be billions of times smaller than a atom. in the image above, you are looking down the center of an electron orbital of an atom, at the junction point of light's two spatial dimensions and its time dimension, on which you are riding nonlocally. the spiral you see cycling around the 90 degree crosshairs is light's two spatial dimensions spinning around time, which you are flowing with. those two spatial dimensions, coiling around your path, time, are the spinning electric and magnetic charges of bound light, at 90 degrees to each other. multi-spectrum inertial seatbelts recommended :-)

now there is one more issue i would like to briefly mention. it is naive to believe gravity is limited to a singleband spectrum, only at light's finite speed. atoms, especially complex atoms, have many electron shells, bound light, out of it's normal symmetry. the many electron shells suggest gravity is multiband, kind of like broadband internet. yes of course, gravity obeys the inverse square law, at least within a significant expanse of space within our light horizon. but for gravity to act both across space and down into temporal domains, not to mention avoiding cosmic fragmentation at extreme distances beyond light's reach, its long range, though weak, but necessary reach may need to be superluminal. there is weakness in this idea however, since superluminal broadband gravity would necessarily imply very, very weak interaction with matter. certainly, the stronger, close in gravity, must be of luminal velocity, otherwise, causality violations. in any case, since light has some interesting nonlocal options, the same could be achieved within light's domain.