

ELECTRIC TIME.

don't waste your time reading this paper because i am not qualified to write it. no one is yet so i will try anyway. time is a strange thing in both the real world and worlds yet undiscovered. for a theoretical physicist or an armchair version of one like me, the unqualified version, trying to visualize and make sense of weird ideas in quantum physics like superposition and time symmetry is a fools errand everytime until it is not. when i stop typing in a couple hours, it will remain a fools errand for sure.

the idea that anything real can exist in two places at once, superposition, is something quantum physics is stuck with because of repeated experiments confirming it for a hundred years. if you believe them you are nuts. and so am i if i believe the paper i am writing right now, which i don't exactly, i just explore its unlikely possibility. so i suspend judgment for a thought exploration and reinstate classical judgment instantly if the real world beckons for a reasonable response.

they say time symmetry is built into the formulations of quantum mechanics and that quantum mechanics is the best most verified theory in history. but time symmetry is the idea that time can run backwards or forwards with equal ease. of course we are just talking about math here. but why would quantum math which works supposedly in the real world be so counter intuitive when trying to match it perceptually with that world?

well they've had a hundred years and it won't match up except on new age websites and physics experiments. who knows maybe the new agers are closer than the experts? maybe the spiritualists are closer to the truth? maybe the basic lego blocks of my alphabet of visualized simple conceptions are faulty. maybe yours are. maybe the best physicists are playing with faulty mental lego blocks but i use their ideas as best i can grasp them to form my world view. but the world view that emerges is always imaginary in a way that doesn't link up with our consensus world of solid objects and sucking gravity. but of course the consensus view keeps us out of practical troubles so we trust it. we must. anything else is a drug trip or belief in a fantasy holodeck world, neither of which i recommend. but nevertheless, here goes nothing, literally:

what if electrons go through double slits and land on detectors defying classical physics because electrons don't exist right now, but rather just slightly smudged into the future? always sitting there just a bit forward of the present moment. and what if protons, the most stable entities of physics, also known to superposition, are dimples punched into the past? and they stay there always in the past as records. sounds silly.

this silly idea though is derived from something the best cornell physics lecturer of all time, richard p feynman, took somewhat seriously: that light's positive and negative electrical charge is actually quick cycling between past and future, and thus theoretically could be a single photon popping into and out of present time anywhere needed, thus omniscient of every point in space

but keeping its omniscience private to its current spatial interaction, not communicating its omniscience horizontally in space-time, so to speak. thus a finite speed of light in space-time. it keeps its transformational temporal information exchanges private as if behind an event horizon. in this scenario past and future are as real as the now present moment where gravity sucks and stuff feels solid. einstein himself said it is the present moment that is the questionable part of it all. counter intuitive! this paper goes with that and tries to draw a self consistent picture of reality under these questionable assumptions. remember of course self consistency is the principle of mathematics itself, and mathematics is just pure mental activity. as is this paper but with less rigid discipline.

so the imaginary picture we have here is electrons being smudged into the incoming possible futures, seeming to superposition in the present, always attracting towards, trying to hook up with, the past, which is protons dimpled into and existing only in the past, keeping records of what light, the mediator between past and future, has mediated as having actually happened. light, always probing future and past everywhere, at least within the light cone, relevant reference frames, assures consistency across interacting reference frames assuring that any future event must be at least almost classically consistent with past events that have been accepted into the record, not to be contradicted too much. light not allowing gross contradictions prevents reality from degrading into fragmented domains of fantasies of observers. we are forced to grow up in the company of fellow travellers in time and space. and yet the allowing of some inconsistencies is free will itself.

this concept of a managed reality, managed by light which is omniscient by nature of the fact that light is always comparing past and future in vast reference frames, narrowing possibilities in the more local parts of the electron field, allowing only mutually consistent events within reference frames, implies the theoretical possibility of violating the enforced consistencies of classical reality (magic or light speed violation), which is quickly shut down by the defragmenting and re-integrating of the record. a cosmic coverup.

in this model an event is a hand off mediated by light from real futures to a real past aggregate record. electrons are mediators of possible local futures. protons are records entangled into a single cosmic record of all events. the only true reality is the records accruing more records. the record doesn't have to be completely true. in a universe with actual degrees of free will it can't be. some parts have to be fudged to keep it defragmented as one reality. only the past is real, but only real as a record. the electrons are continuous calculations extrapolated from the records, possible futures offered to become entered into the permanent record if light allows. quantum fields such as the higgs field make the transactional process itself from future to past, from possibility to record, from electron to proton, feel massive, real, with real inertial forces. without the higgs fields, the present moving moment, the changing physical classical reality, would feel no more real than memories, hopes or fears. might be fun but weird. more like a dream.

so to summarize, protons, black holes and the cosmic event horizon are entangled behind their horizons protecting local space-time from reverse classical events, the record of the past actualizing locally reversing or disturbing time's arrow. gravity prevents backward flow of classical time. gravity is actually the process of accruing the records. light mediates the hand off from possibilities, electrons, to the record. the electron field is the continuous re-processing from the records suggesting possibilities consistent with the records so far and a few possibilities inconsistent with the record. karma is king but free will is queen and can override the king forcing the king to alter his own memories and believe she was right in the first place. if both believe then it is so. the past is not fully stable until it is deep into the record after a few defragmentation cycles. when glitches, what we call miracles actually happen, since they are theoretically possible in this model, the records in their continuous defragmenting and re-integrating processes fill in necessary causal gaps with false records of events which didn't really happen to yield the appearance of uninterrupted classical causality. nature sneaks in a plausible explanation into the records, and leaves classical real evidence in the causal gaps making it causal all along. or so it seems. this is the photon trail nature slips into the double slit experiments after the photon detection has registered.

now of what use is this idea? not much. unless it is true. and unless nature plans eventually to let us into this domain of interactions. it is amazing nature even gives us a peek. it's like the president publishing which number out of ten on his daily card is his number, and his cabinet members doing the same so some fool in the white house can corral a few of them and launch a nuclear strike. of course we have no idea how much of this quantum stuff is misunderstood, just as we in the public are probably not privy to actual security protocols in high government circles. but it does seem to suggest that we could someday screw with causality itself. now back to netflix because that is as close as we can get right now to framing our spaces into temporal sequences we prefer.

or not. you probably notice this paper has turned out to make reality resemble the holographic reality conjectures so popular these days, even among some credible physicists and philosophers. this disappoints me. i thought i might be going in a different direction with this. if reality is holographic then it is damn good at making it seem real. the only gaps in the illusion being special relativity and double slit experiments.

in any case inertial forces are the holy grail in physics. in the classical model matter is fundamentally real and inertial forces are the non-negotiable status quo. gravity sucks and accelerations pin you in your seat, merry-go-rounds throw you off, and spinning tops balance on the fine tip of a pin without falling over. in the classical model it is turtles all the way down. but we found the bottom turtle, call him yurtle, in the subatomic quantum realm, and there is nothing under him. nothing classical. they found either impossible action at a distance or reverse causality. and things existing in more than one place at the same time. either the experts are nuts in a declining civilization, a distinct possibility, or the popularizers of their ideas like myself, do a lousey job. another distinct possibility. and that leaves two possibilities

remaining. either reality itself is radically not what it seems or it is maybe half like what it seems. well that's no fun. so let's keep pursuing radical as is this paper.

in the model of this paper, the future actually exists, but exists as overlapping electron clouds all around us. the photon field interacts with the electron fields, settling arguments and communicating its decisions. the overlapping of our electron clouds both within us and around us means all our free will choices will negotiate a common holodeck experience, but with holodeck safeties off unfortunately. protons, not extended much as macro-fields, means we each have individual, separate and private past histories no longer interacting with the histories of others. but we build our private histories into the proton-black-hole-cosmic horizon from the overlapping electron cloud futures, meaning reality creation is collaborative. if we want private fantasies we will have to build our own damn holodecks to live out the stories we write. nothing new there.

this paper suggests the multiverse of potentially infinite numbers of universes is real but exists only in cosmic negative charge as vast interacting clouds of potential, yet real now in the fields. only a single physical universe exists everywhere stored in the cosmic positive charge. past and future exist, one focused, one spread out. light mediates all of it into a unity, yet with seemingly separate foci of experiences.

shrodinger's cat is both alive and dead in the negatively charged electron clouds, light doesn't care either way but will settle the argument if anyone opens the box. once the box is open the cat is in one state or the other in the record, the positive charge, but still suspended in multiple states in the cloud. at least within a common light cone. we can never know what is in other light cones. in a sense we are all in our own little light cones, but light being fast overlaps us in others' realities. at least we are not alone. if we each were alone, our reality might act like a real holodeck giving us anything we want, assuming we even know what that is. but we would surely find we don't want to be alone. the only way to not be alone metaphysically is to share reality creation by overlapping our negative charges and letting light mediate stuff into our separate though ultimately collective records. if we even could refuse this, we would be stuck with the same problem light itself once had perhaps, manifesting its own reality without any real feedback. but now we lapse into religion or metaphysics.

this is not to insult religion. if you prefer the vocabulary of Bible terminology you are exploring your reality and its possible consequences. the fact that Bible terminology no longer frames my questioning and answering process means little. physics always seems to break down into metaphysics anyway. even if the suggestions of this paper turned out to be true and we could someday enjoy time and space modifying holodeck adventures, or the more likely scenario of creating real physical holodecks on earth for all our fantasies, we would still be having real experiences. and even if the entities in our holodeck fantasies were just light shows with simulated inertial forces, we could still generate karma for ourselves in the real cosmos if we enjoy the real experiences of having all the advantages in the game with the fantasy players

there. and though we claim no one real is being used or harmed there in our fantasies, we are nevertheless having the experiences and changing ourselves.

thus the universe may add our fantasy adventures to our timeline record perhaps weighted a bit less but still effecting our karmic record. so you can see the metaphysical speculations that arise at the edge of physics often mirror the words of Jesus in the Bible. if you sin in your heart you also sin. though probably not weighted as strongly as physical behavior. if a teenager spends all day in violent video games they change themselves.

if the universe is a holodeck and some beings get full access and control, can they do anything they want? not for long. for if you were in a holodeck your whole life and knew it, knowing everyone else is just a holodeck character like yourself, can you harm the other fantasy characters without karmic consequence? even knowing all is fantasy you also know that the fantasy experiences are real and felt experience, thus you must still not cause fantasy characters to suffer without just cause whatever that is. you are one of the fantasy characters but can still suffer unless you can turn off the inertial force simulators just for yourself as you slay perceived monsters and become one. in any case the universe is not fooled and would revoke your holodeck control priviledges, making the holodeck ruthlessly real again for you until you prove you can follow the golden rule. if the universe is holographic, only ethical players need apply for greater priviledges.

so the same rules apply in heaven as on earth. love those who are willing and ready and fight those looking for a fight. but not fights for the sake of fighting or love just for the experience. but for something more, the greater good. perhaps heaven as a state of existence, not a classical place, has at least one fair advantage over other players not yet really fully there experiencing reality as a holodeck: the ability to exit the simulation without dying as long as you don't leave a confusing trail in the holodeck which brings too much attention to yourself as a historical character for them. was Jesus real? i don't know. not sure i am. if so did he have significant holodeck control and for a good purpose?

if my wife and i could share holodeck liquor in a cosmodeck pub with Jesus and richard feynman, what would we talk about? well i'd want my wife to play mary magdalene so i could see if J still has a pulse as i kiss my wife on the mouth and ask her to dance to credence clearwater revival on the jukebox. then i'd ask richard if quantum physics means anything yet. richard would laugh of course and suggest it might explain why J always hogs the jukebox but is already playing the song for me and his wife. but it might not explain why he's still gonna knock me out just for fun. but who's judging? but if J doesn't at least take a swing at me i'm not gonna trust any of his answers to my questions or richard's if he has anything to ask J.

so J is the universe a holodeck? don't know but i sent heisenberg to hell just in case. what did you do with shrodinger J? switched him with his own damn cat of course, but just for a half hour or so. i think he's a cool dude. catholics still call it limbo don't they? yes J i think they probably do. so Jesus, why do you drink here with richard feynman? well he gets my jokes of

course and he lets me hog the jukebox, but he still doesn't get quantum physics. so J what does it all mean? well it means me and my daddy pull most of the strings until you learn to pull your own without tangling too many knots. knots in string theory what does that even mean J? i don't know my mom is the seamstress. mother of GOD what do you mean by that, is string theory true? well of course it is but we're not gonna let them prove it. we're just keeping your mathematicians busy so they won't torture anymore of my kids.

anyway J suggests i probably have more in common with feynman who seems to be getting into a cab with J's wife. mary flips back to mine and slaps richard on the face dragging him out of the cab to talk with me. my wife slaps me on the face for buying richard a beer and picking his brain on quantum physics instead of taking a swing at him. richard confirms that the wave functions are real but good luck proving it. so richard, any plans to return to cornell? already there managing their entertainment functions. not their wave functions? no J's daddy does that, he's a great multitasker. well then how are you also here drinking with Jesus? well as i explained, the wave functions are real and they don't actually collapse. we just make you think they do so you won't all crowd in here, suck up all the beer and kick Jesus off the jukebox. but why does a quantum physicist care if Jesus has control of the jukebox? i don't know he always seems to know what songs to play. and everybody dances even if they don't know the tune. but richard, why not take those lessons you taught to the kids at cornell seriously, and put the jukebox on a statistical song selection loop? and seriously richard, have you ever asked J if the devil was real? well the question never comes up but charlie daniels just walked in and J already has his song playing on the jukebox. how did he know he was coming richard? i don't know i guess he's been to georgia too. it all goes to hell doesn't it? of course it does, where do you think you are? in hell with Jesus, charlie and you? well i like it and J never leaves. it's all what you make it. you mean heaven and hell are both right here in this bar? wherever you want them to be son.