

Quantum gravity made easy.

By "The Average Me",

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Abstract

I didn't have to write this, but wish "I" had sent it to more people sooner. In life, one only gets so many chances to make so many choices, use their voice. I sense that there are few "copies" of me in other parts of a multiverse, percentage of one, who don't, or couldn't reach similar conclusions sooner or later. I long tried to explain it to lots of Relativists who are looking for waves from observables. Still, whichever two mutually attracted observables are caught in a binary inspiral, they can't stop and think, decide not to collide. You, on the other hand, have some small degree of free will. Mind, the observer, matter more.

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Newton obviously only saw observable objects and wrote the equations. Einstein didn't know that there's a two way St. whereby we also send, transmit, a signal. Shannon entropy, and more recent theory has information, like a carrier wave, comes from us via our intentions. These have been found in consciousness experiments. Entropic G is like these, as tests seem to scale up, more observers, more effect, like proportional forces or masses.

"Mass", its' origin, is still not well understood, and even if the LHC is fixed shortly after this note, it is not known at what level QG could be seen. DM gives a hint as there is more of it showing up on the longer days, a seasonal modulation, annual variation in at least 6 experiments. This indicates a critical mass occurs when observers have more time to send more information to a location and hence why it is created more then. I've proposed a quasiparticle of sorts, called an infonon to account for this, and it has been shown not to be self-interacting, and only does so with gravity. Hence, we, probably many others, and future observers will be involved. A Big bounce could even be created as more and larger observers have more of this effect from mind and by holding information in memory, which is truly the key to the "glue" of gravity.

Conscious intention sends the signal which creates the point where mass is created, and then mind is what is preventing mass from moving, motion. A quantum anthropic and biocentric view is easy on the weak scale as you are here, but the strong version is probably seen through the fates, bounces and consequent, strength of the force we are experiencing. In '98 Type 1A Supernova were used to show an accelerating expansion of the Universe, but at whatever rate, the fate was still invariably, inevitably bad for far future beings. Life grows to a point, then re-collapses, in a bounce or crunch. Supernova and black holes and such supposedly, "collapse" under their own gravity, but that's a misnomer. In the model you see here, the critical "mass" which creates the critical point in those, and is something more to do with you and me, and probably lots of other observers we haven't met and can't yet see.

Gravity is actually about you, me, everyone or body in the past and far future of the multiverse too. Some fates don't work out well for life, but some could exist, already, in their "end"? We could tell from the strength of gravity if the curvature or Fate(s) are occurring more or less at probable or particular rates, which is winning out, more or less? No gravitational waves have been detected coming towards us, yet. Most think that this seems the correct assumption, and the alignment has been proven to about 99.5% accuracy. So, what else could it be? The signal we living beings send, transmit, has already been detected. There are various and several researchers, experiments, and six dark matter experiments that tend to back this sort of concept. Further these prove entropy to be reversible in a way that suggests future observers would be able to do enough of it to turn the universe around, create a big (brain/mind

based) bounce. Entropic G is thus warming the proverbial coffee cup back up, and prevents the older and colder only scenario which results invariably, inevitably, in a miserable fate for all later observers. That sort of multiverse seems unlikely and impractical and it leads to a pointless system instead of a biological living one. Life probably won't want to just give up and die any time soon. The Kepler telescope has already shown abundant life probable, more important too. Your ability to focus, and concentrate on something, allows you to be part of creating information in a location, or point in space-time. Further, you have a memory, and that is the key to why this critical mass of information is held in place, prevented from motion, resisting movement. You are thus part of co-creating mass and are a small percent of the glue of gravity. Neutron stars, Black holes can't stop in their tracks. You and I, to some small degree have the ability to decide between possibilities, have some. You don't have to believe me on these experimental proofs, or concepts, as you can do the tests for yourself.

See the Global Consciousness Project, the Noetic Institute, and related sites. Dark Matter experiments at DAMA/Libra, CoGeNT, Cresst, AMS, Pamela, and XMM-Newton. The neutralinos, wimps, machos and axion models do not explain the seasonal concept, so the infonon may be what shows up then in these. Seasonal decay rates supposedly just happen as a byproduct of the solar neutrino concept, and a result of the earth-sun distance. That metric isn't random however, and seems more fine-tuned, to us, life, too. Paradigm, the book which mentions "Taylors" Law", gives an account of seasonal variations based on "gravitational effects experienced (more or less then) on the human level". "Good day Sunshine and the stock market", similar articles, seasonal affective differences, correct. Seasonal hormones, circadian rythms, place cells, timing in neuroscience and other biology backs this logical approach. The hemispheres are reversed in current seasonal weather models, but the migrations of animals, plant blooms, and ham radio broadcast windows, are also similar along these lines, so that in part resolves that conundrum. Instead of DM annihilation it must have an origin, "mass" must be created somehow, and this is especially important as the LHC should be fixed and running by the time you read this. In the meanwhile, few are thinking of the problem as a two way St., dark matter and gravity, gravitons, aren't part of the standard model yet. There aren't any living entities that write articles, create particles, or store info in mind, in the model yet either. Even biophysics has entirely missed the idea so far.

The Allais effect, wasn't known until 1956, occurs during eclipses. This anomaly could similarly be explained as a loss of focus on the object, or coherence, then. Again, science hasn't looked at the problem in the opposite direction, so conventional explanations haven't explained it.

In 2001 IEEE.org, had a paper on "Gravitational Force?" The paper was bout humidity tests and Zener diodes, and showed a correlation to tides. These are the diodes used in many RNGs in consciousness tests. Again, fine-tuning is shown, the equations are well known, but not thinking of things in reverse.

If life doesn't want to die, survives, the logical conclusion in the far future is a far larger, and/or a lot more observer(s). They're similar to Bekenstein black hole area radius and entropy equations? Brain size or BH info storage capacity upper limits could be higher over far longer timescales than from the bang until "now". In 85 billion or more years, the 96% of the U., DM, DE exists? Quantizing observers is a process over time, lifetimes, circle of life? The participatory version of the anthropic principle suggests purpose. You can decide which curvature you prefer in various rates, "inflation" fates, or growth of many worlds, multiverses. Far future observers reverse more entropy, create G while they exist. They focus things to a point, initial singularity for a supposedly random big bang beginning. If future life grows on, it doesn't all have to be pointless, worthless, a big rip off for all concerned?

Some brief references:

The Anthropic Cosmological Principle, F. Tipler, J.D. Barrow. See (Jordan) Brans Dicke equations.

The physics of Immortality, F. Tipler

"Does Gravity Change with the seasons?" New Scientist, mentions A. Kostelecky, Indiana U.

Conventional Explanations of the Allais effect..., by C. P. Duif

Was Einstein Right?, Clifford M Will, See Brans-Dicke equations

"Shadow over Gravity", and other Allais effect, eclipse articles, New Scientist

Cycles of Time, and other related books on consciousness/mind by R. Penrose

Quantumconsciousness.org Stu Hammeroff, and related U. of Arizona Dept.

Decay rates (seasonal), E. Fishbach, J. Jenkins (Purdue), P. Sturrock (Stanford), and R. Davis(BNL), and German Metrology lab which has had similar tests with various interpretations. Radiation was first considered to be constant, this hints at a pattern. "Repeated measurements accelerate decay rates", Nature Magazine, indicates more of the same as did (potentially?) some tests at UTDallas.

M. Bojowald, Quantum Cosmology, Canonical Gravity, Once Before Time

B. Haisch, various papers, and book, The God Theory

D. Radin, Entangled minds, The Conscious Universe

Anthropic Principle, see various and several books, articles, web sites too numerous to mention here.

P. Davies, About Time, all other books, papers.

L. Smolin, Three Roads to QG, all other works. See related work, people more at the Perimeter Institute

J. A. Wheeler, The self-observing Universe. Note picture on the cover of his Geons... book, which states that the creature on chalkboard can't be quantized. In fact through theory herein, an instantiation of information, it's creation from living entities could be the key to doing this more appropriately. Dino's didn't have much information storage capacity, not like supermassive BH thermodynamics indicates.

B. Carter, Anthropic Principle...etc.

B. J. Carr, Anthropic Principle...etc.

G.F.R. Ellis, All works, including The Far Future Universe.

J. Hartle, "The observer Strikes Back", and other papers especially those on his Universal Wavefunction.

"Gravity backwards", 2 short overly simple documents on Scribd.com, a few more poor diagrams there.

The next Diagram has time zero in the lower left, space and time on x and y axis, with 13.7, 22, 60 and 100 billion or more years into the future. The curvatures for inflation rates can vary. Smiley bounces. ☺

Quantum Anthropic multiverse

Big Rip(Off) and Big Brain Bounce

Which curvature to prefer? In the ones above the flat U, line the big rip occurs and all life dies, below the line it lives, learns and grows with time. If it lives long enough, it becomes strong enough in it's ability to order more randomness, turn entropy around. It's brain, mind, memory, a info capacity for storage becomes large enough to create a big, bigger, biggest (upper limit?) bounce. Maxwell's Demon?



