

Ask A Genius 37 - Informational Cosmology 13

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Scott: If the universe is net negentropic, what happens a quintillion or quadrillion years into the future? What if the universe is net entropic?

Rick: The universe is defined, I believe and quantum mechanics suggests, by its interactions. An entropic universe or heat death universe, or open universe, keeps getting bigger and bigger. How does it define itself? If things get farther and farther away. There's less and less energy. All of the photons have already flown away.

If the universe is basically a giant gun fight among all of the particles and the particles understand where they are versus everything else - pa-choo, pa-choo, pa-choo, pa-ting, pa-ting, pa-ting, then an entropic universe can't even be defined because there's very little exchange of defining information via radiation. Everything is too far away and too cold. So, F- that universe.

A negentropic universe is defined by the information in it as long as that information is interacting, where if the universe is a giant gun fight then you can have the active center where everybody is communicating with everybody else via radiation.

You've got the more collapsy $T=0$ outskirts, where information is preserved even though it's not part of the gunfight. There's not enough time for that stuff to need to be defined. The lack of stuff

going on means a lack of time, which means the information doesn't have time to break down.

So, you've got a cold storage, which is near zero time storage. If you had the best refrigerator, the best one you could have, it would be a silver sphere where you put your Chinese food in it and no time passes within the sphere. It doesn't even have to cool down. Put the food in, it is a stasis sphere.

You go on vacation, come back 3 weeks later, take out the Chinese food that has experienced no time. So, the food is still fresh because it has experienced no time. $T=0$ is like storage. You might be able to store inconsistent information in a stasis sphere, basically, because say the universe knows more. Our brains know more than we can know at any given time. We have more information stored than we access at any given instant, and given that the information is accurate within different contexts - one aspect of persistence is the absence of contradictions because everything fits with everything else, but with contextualized information, maybe, you store the stuff that is, the stuff you know, known within a specific localized context. Your brain can only know so much at any given time even though you only know so much in the aggregate because you can only know the aggregate.

There might be, if not inconsistencies in the aggregate, then at least contexts in which things are known that require the limited contexts at the time because the contexts cannot all be known at the same time. Your brain doesn't have the information processing capacity to present your complete knowledge at any given moment. The size of your brain's limited capacity to know stuff at any given moment. There may be informationally based reasons why not all information can simultaneously exist.

That there is some kind of contradictory structure to information in the aggregate, so non-pertinent information has to be stored in a relativistically rotated, zero space and zero time, or limited space and time, or attenuated space and time, context, which would naturally be around $T=0$.

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