

THE NEW PHILOSOPHY OF SUPERDETERMINISM ON LIVING LIFE

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The philosophy of superdeterminism is based on a single scientific fact about the universe, namely that cause and effect in physics are not real. In 2020, accomplished Swedish theoretical physicist, Dr. Johan Hansson published a physics proof using Albert Einstein's Theory of Special Relativity that our universe is superdeterministic meaning a predetermined static block universe without cause and effect in physics. So, what impact does living in a predetermined static block universe without cause and effect in physics have on living your life? The single most important impact is the strong scientific evidence supporting the existence of God. The second most important impact is that you can infer that God endorsed Christianity and the Catholic Church, because one would expect God to communicate with humanity by predetermining His will to be the predominant religion and Church on Earth. The third most important impact is the realization that your life is endlessly repeated in our block universe. The philosophy of superdeterminism has many other significant impacts on our understanding of God, the universe and meaning in life.

The new philosophy of superdeterminism is based on a single scientific fact about the universe, namely that we live in a predetermined static block¹ universe without cause and effect

¹ Imagine a cosmic four-dimensional block, where the three familiar dimensions of space (length, width, and height) are combined with a fourth dimension of time. Every single moment in history would occupy a specific location within this block. From this perspective, there is no special "now" moment that separates the past from the future. They all exist equally.

in physics.² In 2020, accomplished Swedish theoretical physicist, Dr. Johan Hansson proved by applying Albert Einstein's Theory of Special Relativity to what has already been scientifically verified about spin measurement correlations observed in entangled particle pairs³ that cause and effect⁴ in physics⁵ are not real.

Dr. Hansson demonstrated that the opposite spin measurements observed in entangled particle pairs cannot occur unless cause and effect in physics are not real. Experiments have shown that when the spin of the first entangled particle is measured, then the spin of the second

² Hansson, Johan. "Bell's theorem and its tests: Proof that nature is superdeterministic – Not random." *Physics Essays* Vol. 33, No. 2 (2020). Dr. Johan Hansson, a professor at Luleå University of Technology in Sweden, has been awarded the "Honorable Mention Award" by the Gravity Research Foundation, a prestigious foundation aimed at advancing the understanding of gravity in fundamental physics. This recognition places him among a group of previous winners that includes Nobel laureates and world-renowned physicists. www.ltu.se/en/latest-news/news/news/2023-05-23-awarded-prestigious-prize-in-gravitational-research#:~:text=Johan%20Hansson%2C%20a%20professor%20at,of%20gravity%20in%20fundamental%20physics.

³ Dr. Hansson's version of superdeterminism proves that we live in a predetermined static block universe without cause and effect in physics. The other version of superdeterminism posits hidden causal variables responsible for the correlations observed in quantum entangled particles, and thus relies on cause and effect in physics. Indeed, Dr. Hansson's version of superdeterminism disproves any competing version of superdeterminism that relies on cause and effect in physics to posit hidden causal variables.

⁴ Dr. Hansson wrote that "[e]verything is predetermined, including the experimenters (non) free will, the 'random' orientation of the spin-analyzers at either end, and anything else you can think of. Each measurement does not create but merely uncovers what already is embedded in space-time. All events leading up to, and including, the 'act of measurement' itself are already there. . . . Bell's theorem and its many experimental tests thus are proof that nature at its fundamental level is superdeterministic – not random. A 'cause' cannot alter the 'effect.' The events in global space-time are predetermined and fixed, much like pebbles cast into a concrete block. . . . What an experimenter seemingly 'chooses' to do at either end A or B is the only thing she can do, and cannot 'cause' either the event at her own position or the event at the other end. All events in the global space-time 'block' we call the universe (past, present and future), observed or not, are superdetermined and unalterable." Hansson, Johan. "Bell's theorem and its tests: Proof that nature is superdeterministic – Not random." *Physics Essays* Vol. 33, No. 2, at 217 (2020).

⁵ Physics is the fundamental science that studies matter, energy, motion, and force. Physics explores everything from the incredibly small (subatomic particles) to the unimaginably vast (the cosmos).

entangled particle will always be the exact opposite spin regardless of how far apart you place the particles when measured.⁶ However, the spin of the first entangled particle measured for spin-1/2 particles, like electrons, will always be a purely random 50-50 result between Up or Down spin. This raises an inconsistency with Einstein's Special Relativity when observed from different inertial frames of reference.⁷

Observers in different frames of reference can observe a different entangled particle measured first due to the relativity of simultaneity.⁸ As a result, two different observers each observing a different entangled particle measured first can observe conflicting spin measurement results for the pair. If Observer 1 sees particle A measured first with an Up spin, then particle B must show a Down spin for Observer 1. But, if Observer 2 sees particle B measured first with an Up spin, then particle A must show a Down spin for Observer 2. Observers 1 and 2 would see inconsistent spin measurement results for the pair of entangled particles. This potential conflict

⁶ Aspect, A. et al. "Experimental Realization of Einstein-Podolsky-Rosen-Bohm Gedankenexperiment: A New Violation of Bell's Inequalities" *Physical Review Letters* Vol. 49, No. 2 (1982).

⁷ An inertial frame of reference is a frame of reference in which an object at rest remains at rest and an object in motion moves in a straight line at a constant speed unless acted upon by an external force. Essentially, it is a reference point that is not accelerating. Think of it like a smoothly moving train: if you're inside and not near the windows, you can't tell if the train is moving at a constant speed or stationary. This is because the train is an inertial frame of reference.

⁸ The relativity of simultaneity in Einstein's Theory of Special Relativity means that two events that occur at the same time for one observer may not occur at the same time for another observer who is moving relative to the first. This idea challenges our intuitive understanding of time. In our everyday lives, we tend to think of time as absolute, flowing uniformly for everyone, regardless of their motion. However, special relativity tells us this is not the case. This happens because the speed of light is constant being the same for all observers regardless of their motion. To visualize this, imagine two lightning strikes hitting opposite ends of a moving train simultaneously from the perspective of someone standing on the platform. To someone on the train, the lightning strikes might appear to happen at different times due to their motion relative to the platform. This concept might seem counterintuitive, but it is a cornerstone of modern physics and has been experimentally verified.

in spin measurement results occurs because of the random 50-50 chance of observing either an Up or Down spin on the first particle observed to be measured.

The only way to explain how the spin measurement results can be consistent for all observers regardless of inertial frames of reference is to say that the spin measurement results must be predetermined for all observers.⁹ If Observer 1 is predetermined to see particle A measured with an Up spin, and Observer 2 is predetermined to see particle B measured with a Down spin, then the spin measurement results between the two Observers can always match even though the spin measurements still appear to the Observers to be completely random results. This is an example of predetermined randomness and not caused randomness. If the random spin measurements were actually caused when the first entangled particle observed was measured, then there would be an inconsistency in spin measurement results which would violate the principle that there is no preferential frame of reference in Special Relativity or quantum mechanics. Consequently, Dr. Hansson proved that actual cause and effect in physics cannot be real using Einstein's Theory of Special Relativity, because eliminating cause and effect in physics is the only way to explain how the spin measurement results can be consistent when viewed from any inertial frame of reference.

So, what impact does living in a predetermined static block universe without cause and effect in physics have on living your life? The single most important impact is the strong scientific evidence supporting the existence of God. The second most important impact is that you can infer that God endorsed Christianity and the Catholic Church, because one would expect

⁹ Dr. Hansson concludes that “[t]here is no other possibility than that the outcomes at A and B both are predetermined.” Hansson, Johan. “Bell’s theorem and its tests: Proof that nature is superdeterministic – Not random.” *Physics Essays* Vol. 33, No. 2, at 217 (2020).

God to communicate with humanity by predetermining His will to be the predominant religion and Church on Earth.¹⁰ The third most important impact is the realization that your life is endlessly repeating in our block universe. The strong scientific evidence of the existence of your block life argues heavily in favor of not engaging in any behavior you would not want endlessly repeated in our block universe.

The fourth most important impact is the realization that your experiences in life are illusions of our block universe. Your belief that you can change your future based on your freely willed choices is an illusion. The fifth most important impact is in understanding that cause and effect are also illusions and you are simply living a predetermined role in life you can never change. The sixth most important impact is realizing that you cannot choose your own meaning in life. God has predetermined everything you will ever do or think on Earth. Your meaning in life has already been predetermined by God and you can never escape that meaning. Notions of actual freedom of choice, power, self-determination, self-actualization and self-invention are all illusions created by our static block universe. Finally, the seventh most important impact on your life is the realization that objective truth and morals are real. Christian morals are objectively true, because God endorsed Christian teaching by predetermining Christianity to be

¹⁰ Christianity with 2.4 billion followers represents 31% of the global population more than any other religion. Wasserman, Pam. "World Population by Religion: A Global Tapestry of Faith." Population Education. January 12, 2024. Retrieved on August 7, 2024. www.populationeducation.org/world-population-by-religion-a-global-tapestry-of-faith/. Catholicism with 1.285 billion followers is the largest denomination within Christianity. Bada, Ferdinand. "Largest Christian Denominations In the World." World Facts. August 7, 2018. Retrieved on August 7, 2024. www.worldatlas.com/articles/christian-denominations-by-the-numbers.html.

the predominant religion on Earth. God being the bedrock of truth¹¹ has the capacity to exhibit objective truth in the universe He predetermined.

Many consider God an unscientific religious concept. However, there is a scientific way of thinking about God. Because physics proves that we live in a predetermined static block universe without cause and effect, then one can ask why our particular universe exists in the first place? Either our universe has always existed or our universe came to exist. Science supports the latter view based on the evidence.¹² But, if our static block universe came to exist without cause and effect in physics, then we are talking about a different sort of causation for our universe namely causation outside of time and outside the laws of physics or non-temporal¹³

¹¹ Because God creates all things but Himself, then only God can be the source of truth.

¹² There is an abundance of scientific evidence which suggests that our universe was created despite the absence of any natural causal process available for creating universes. Quantum randomness itself is such evidence, because randomness by definition is a result that could have been different. By definition, randomness implies unpredictability. If a result could have been different, given the same initial conditions, then it is considered random. This is a fundamental concept in probability and statistics. Indeed, the quantum randomness supposedly responsible for the quantum fluctuation giving rise to our universe would have only a chance of 1 in 10 to the power of 10^{123} of ever happening. See Penrose, Roger, 1989, *The Emperor's New Mind: Concerning Computers, Minds, and the Laws of Physics*. Oxford: Oxford Press, pp. 339-345.

The Big Bang theory also implies the creation of our universe when a near singularity popped into existence from nothingness. As one regresses backwards in time to find that the universe gets smaller and smaller even to a sub-atomic size, the reasonable inference is that this near singularity popped into existence as a quantum fluctuation. The scientifically verified flatness of spacetime also implies a zero energy universe with a perfect balance of positive energy (mass and radiation) and negative energy (gravity). When one cancels the positive energy out with the negative energy, one is left with nothing which suggests that our universe came from nothingness. See CCC 2566 (noting that “[i]n the act of creation, God calls every being from nothingness into existence.”). But, nothingness cannot have the power to create our universe in the absence of cause and effect in physics, which only leaves a non-temporal cause for the existence of our universe. The cause must be non-temporal, because nothing can be caused to exist in time in the absence of cause and effect in physics.

¹³ Non-temporal or atemporal means something is independent of or unaffected by time. It is a concept often used in philosophy, theology, and physics to describe things that exist outside the constraints of time.

causation. The problem is that without any actual power in our laws of physics capable of creating our static block universe, then we are left with a non-temporal cause that differs from nothingness only in the respect of having the power to create static block universes. But, how does such a power decide what to create?

Essentially, science leads us to a black box creator of our universe without the physical reality to mechanistically decide anything. Such a metaphysical creator nonetheless must decide what to create without any mechanistic limitations on its choice of creation. For such a metaphysical creator, there is no reason one must limit its ability to choose to purely random physical reality. Rather, a supremely intelligent method of choice is just as plausible as a purely random choice. Supreme intelligence is then just a form of decision making originating with this metaphysical decision maker. God makes scientific sense as the supremely intelligent decision maker necessary to decide what gets created in physical reality, because cause and effect in physics are not real and nature cannot therefore create anything.

But, even a black box creator must first know of and understand everything it plans to create in physical reality before it can create it. Such a Creator must be supremely intelligent, because it must know of and understanding even the most advanced technologies first in order to predetermine the existence of those advanced technologies in our static block universe. And a supremely intelligent Creator who has predetermined everything that ever happens in our static block universe must also have predetermined the appearance of all religions on Earth. Obviously, a supremely intelligent Creator would predetermine the most important religion and Church reflecting His will for humanity to be the predominant religion on Earth, which happens

to be Christianity and the Catholic Church. So, this black box Creator of our predetermined static block universe is inferentially telling us that Catholicism is His will for humanity.¹⁴

Christianity is a religion. But, a supremely intelligent decision maker has predetermined Christianity to be predominant on Earth. Science supports the inference that the Creator of our universe has endorsed Christian morals for us to follow. We must make moral decisions in life anyway, so it makes perfect sense to adopt our personal values on the basis of objective Christian morals made predominant and predetermined to exist by God. Moreover, Christianity contains the promise of an afterlife offering the prospect of eternal life in Heaven. While we do have a form of immortality or block life in our static block universe, the prospect of an eternal extension of that block life after death in Heaven should be most welcome.

Because we live in a predetermined static block universe without cause and effect in physics, then there is no reason to believe our universe will ever cease to exist in the absence of any natural causal power that could annihilate or transform it into something else. Indeed, a supremely intelligent Creator would also have no reason to annihilate our universe, because that would admit of a mistake in creating our universe in the first place, but mistakes are impossible for an omniscient supremely intelligent Being.¹⁵ So, we experience our lives from birth until death repeatedly and endlessly in our static block universe. We truly are immortals in our static

¹⁴ Christianity is a religion meant to be taught to every human being. Jesus said, “Go, and make disciples of all nations, baptizing them in the name of the Father, and of the Son, and of the Holy Spirit, teaching them to observe all that I have commanded you.” Matthew 28:19-20.

¹⁵ God must know everything, because God must know Himself and everything God creates leaving nothing else available for God to know. God must know Himself, because God being uncaused cannot be caused to acquire or lose any knowledge about Himself. God must always know and understand everything He creates in order to predetermine its existence in a static block reality. God could not have any lack of knowledge necessary for committing a mistake.

block universe. Any existential dread of death is mitigated by the scientific fact that we never cease to exist in our static block universe.

Death is basically one more illusion caused by our static block universe, which makes you think that you permanently cease to exist in our universe at death. Free will is also an illusion, because your choices cannot possibly alter the outcome of an unchangeable predetermined future without cause and effect in physics. Your experience of time is also unreal. You think that time is a container for the events that change all around you, but time is actually a static fourth dimension of spacetime not a flowing river of changing events. Even your experience of the independent existence of objects is an illusion. Nothing actual moves in the universe, but objects are merely appearances in our static block universe like drawings on the pages of a cosmic flipbook. Our static block universe is not a changing picture, but a picture of change. And you have no actual power or control over your block life, because you cannot actually cause these drawings on the cosmic flipbook to change without cause and effect in physics. Your role in life is predetermined and cannot be changed by you or anyone else. Nothing that exists in the universe has the actual power to change one iota of the predetermined plan for our universe.

The notion that we can create our own meaning in life is also an illusion, because your meaning is determined by God's predetermined plan for the universe which you have no actual power to change. Moreover, if you do not like the meaning God has given to your life, you cannot change it and should understand that God directs your life and not you. God has predetermined every thought that ever enters your mind. God decides what truths are revealed to us and instructs us on His objective morality through His endorsement of Christian teaching.

You are not a random little speck on a tiny little insignificant planet that is here today and gone tomorrow. You are an immortal being whose existence has been predetermined by God.

A key concept in living your life under the philosophy of superdeterminism is leading indicators.¹⁶ Because the future is predetermined and unchangeable, then one cannot actually cause themselves to have the future they want. The future you are going to live is the only future you can live. The idea of living your best life is an illusion brought on by the false assumption that you can actually choose the future you want to live from many possible futures. However, the illusion that we have free choice is a permanent feature of our conscious brain experiencing the illusion of the container of time brought on by our static block universe. Because our behavior based on our illusion of free choice must nonetheless be congruent with the predetermined future, then our behavior acts as a leading indicator of our predetermined future. The predetermined future is set in stone, but the way we behave is a leading indicator of that predetermined future whether we perceive the connection to the predetermined future or not.¹⁷

One can behave in ways that are leading indicators of a particular desired future. And because our predetermined future always has leading indicators, then behaving in a way that is a

¹⁶ Behavior is a powerful leading indicator of future outcomes. Certain behaviors are strongly correlated with specific results. For example, regularly attending Mass or Church service is often a leading indicator of improved mental health. Chen, Y. et al. "Religious-service attendance and subsequent health and well-being throughout adulthood: evidence from three prospective cohorts." *International Journal of Epidemiology*, Vol. 49, Issue 6, pp. 2030-2040 (Dec. 2020).

¹⁷ For example, the fact that someone left his house in the morning is a leading indicator in hindsight that he will encounter and get hit by a bus on the street later that day. If he did not leave his house, he would not have gotten hit by the bus. So, leaving the house must have been a leading indicator of getting hit by a bus. However, because we generally do not know the predetermined future, then we may not recognize our behavior as a leading indicator of predetermined future events. We can only focus on more obvious leading indicators, such as studying for a test is a leading indicator of getting a good grade.

leading indicator of our desired predetermined future may very well be the predetermined behaviors that leads to our desired future. So, even with a predetermined unchangeable future, we can still choose behaviors albeit not freely that are designed to lead to the predetermined future outcomes we desire. We generally cannot know the predetermined future anyway, so we cannot know with certainty whether our behaviors based on leading indicators will fail to produce the desired predetermined future so there is no harm in trying.

However, the nature of the universe is certainly not one of freedom. In fact, the nature of the universe is the exact opposite of freedom. You are confined to a static block universe that plays out in exactly the same predetermined way endlessly with no chance of ever changing or escaping it. So, believing in the ontological reality of freedom in our universe is delusional thinking. However, reasonable belief in a reformulation of free will is possible even in our static block universe provided one believes in God. Under a theory called “cinematism,” God being omniscient should have predetermined our universe to exhibit what God already knows our freely willed decisions would be. So, while we do not have free will on Earth, we can still reasonably believe that God predetermined our behavior on Earth to exhibit what God already knows we would freely choose. Therefore, in order to save your belief in free will, you must believe in God. However, one cannot reasonably believe in free will on Earth under superdeterminism while remaining an atheistic liberal or existentialist. Quite clearly, we do not possess free will and our personal freedom of choice on Earth is a non-existent fiction.

Lastly, one should be careful in adopting advice or rules that do not take into account the fact that we experience illusions in our static block universe. For example, someone might say that everything changes and nothing lasts forever. However, our static block universe does last forever. Another person might say that now is all that exists. But, the past, present and future all

equally exist in our static block universe. Many people will claim that you are in control of your own life and future. But, clearly that is impossible, because your life and future are already predetermined and you have no free will or power to change it. The only difference is that because you do not generally know your predetermined future, then it is advisable to act under the illusion that you freely control your life as a leading indicator of a predetermined future congruent with your desires. But, that is no guarantee and God may have other plans for you.