GOD

The World's First Rigorously Scientific Theory of God

by

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Level One

Intrinsic Consciousness and Free Will

How is human behaviour analysed and predicted?

At least for the moment, human behaviour is **not** amenable to a **deterministic** analysis.

Even you, yourself, for example, cannot exactly, deterministically, predict where you'll be, or the details of your life, five years from now, say.

There still exist absolutely no scientific means or systems by which anyone can predetermine human actions and behaviours; criminals first have to commit their crimes before the law begins to prosecute them.

Given that there exists no means for the exact, deterministic predetermination of human behaviour, does that mean that human behaviour, our conscious choices and actions, can't be analysed or predicted in any way at all?

No, fortunately, and very importantly, human behaviour *is* amenable to a predictive analysis, and this predictive analysis is rigorous, scientific, systematic, and mathematical.

However, and to emphasise, this analysis is absolutely **not deterministic**, but, rather, the mathematical

methods for the analysis of human actions and behaviours are **Probabilistic**.

Examples

Note: The accuracy of probabilistic mathematical methods usually, if not always, depends on them being applied to systems involving very large numbers of members, as exemplified in the following.

1. If we ask a large group of humans to choose in their minds between heads, '**H**', and tails, '**T**', then, assuming no prompting or prejudice, we can expect around 50% of the group to choose **H**, and the other 50% to choose **T**, and the larger the group of humans we examine, the more exactly will the group be split 50-50 between **H** and **T**.

2. Similarly with marriage and other similar rates.

We cannot randomly pick a particular eighteen year old man and predetermine with certainty whether or not he'll get married before he's forty, but we can take a large population of eighteen year old men and very accurately say that 75% of them, say, will get married before their fortieth year.

3. Similarly with diseases and death, we can't say who exactly, in particular, will die of cancer, or heart disease, or fast truck, or what have

you, but we can very accurately say things like, 'Two out of every three humans will suffer from some form of cancer at some point during their life'.

There exists another realm of the physical phenomena of our Universe where the observed behaviour is accurately analysed and predicted using probabilistic, statistical, mathematical methods applied to large groups of individual members instead of deterministic methods, and that is the realm of **Quantum Mechanics**.

But before we compare human choices and actions with quantum mechanical behaviour, let's quickly examine the origins of the widespread, as well as very incorrect and harmful belief in the idea that our Universe is fundamentally and totally deterministic.

We owe our belief in a deterministic Universe to Issac Newton.

Issac Newton gave us the mathematical system that we use to analyse and predict the motions of **macroscopic** physical bodies subject to the various forces, such as Gravity, and his system is totally mathematically deterministic into both the past and the future.

If you can accurately measure the macroscopic physical properties of a given macroscopic system then you can exactly predict, as well as 'postdict', the dynamical evolution of the system into the future and the past.

For example, we can use Newtonian Mechanics to predict very exactly where the moon will be 2000 years from now, as well as just as exactly postdict where it *was*

2000 years *ago*, and, mathematically speaking, the nerds at NASA used nothing but Newtonian Mechanics to put Neil Armstrong on the Moon.

However, and it's a very big 'However', Newton's maths only apply to macroscopic objects, and do not at all apply to **individual, microscopic** objects, which is to say, to **individual quantum particles and molecules.**

And, what's more, macroscopic objects, like cannonballs and moons, for example, **are not** fundamental to our Universe, which is why extrapolating from the fact that macroscopic objects like this are deterministic, to the conclusion that our entire Universe is totally deterministic on all scales and in all ways, is a very bad extrapolation to make.

In fact, it's a totally false as well as philosophically and spiritually disastrous conclusion to jump to!!!

Our Universe is not fundamentally deterministic at all, and neither, thank God, are you!!

You see, macroscopic objects are not fundamental or basic to our Universe.

The basic, fundamental physical objects of our Universe, the fundamental physical 'stuff' or 'Clay' of our Universe is **physical light Energy and fundamental quantum particles**, such as electrons.

A cannonball isn't even, in reality, a single, individual object.

In reality, a cannonball is a composite object composed of trillions of individual quantum particles and molecules, bound together by chemical forces, and constantly vibrating around fixed points in repeating geometrical patterns known as 'crystal lattices'.

When we zoom in on our cannonball we see that all of its macroscopic determinism was nothing but an illusion!

Like mistaking a bit of old rope for a snake,

"Aaahhhh, a Snake!!!"

"Oh, no, thank God, it's just a bit of old rope!"

"Oh, no, the motion of macroscopic objects through space is very accurately describable using strictly deterministic mathematical methods, therefore, our entire Universe is totally deterministic in every possible way, including human life, and, therefore, our lives are totally meaningless, cause the decisions we consciously experience ourselves making and that generate the meaning of our lives, well, they're not really our decisions at all, but have, in fact, been predetermined from the very first moment of the

Universe, and human life is nothing but a meaningless, tragic, predetermined dumb-show that we can watch but do nothing to alter, shape, design, or ameliorate".

"Wait, wait, slow down, calm down, look again, much more closely and carefully!

All macroscopic objects, your cannonball, for example, is composed of trillions of individual quantum particles and molecules bound together into a sphere, and the behaviour of the individual particles and molecules isn't deterministic at all in any way!!

And quite the opposite, in fact!!

That's the whole point of Quantum Mechanics!!

Quantum particles, the particles we're all made out of, that everything that exists in our Universe is made out of, **are not deterministic at all.**

So, for example, let's say that our cannonball is at rest, just sitting on the ground, then according to a Newtonian analysis its velocity is zero and will remain zero unless it's acted on by an external force (apart from Gravity, the force of which is being exactly and oppositely balanced by the ground)

However, the Quantum picture is very different!!

We zoom in and all the molecules and particles of the cannonball are in constant vibratory motion; in reality, the cannonball isn't at rest at all, even if we freeze it, but, rather, is nothing but motion, every single particle constantly vibrating, jiggling this way and that, emitting and absorbing light energy to and from its nearest neighbours.

From a modern quantum perspective, the term ‘inanimate matter’ is a terribly misleading misnomer; ‘inanimate matter’ isn't ‘inanimate’ at all in any way! **It is all in a constant state of non-deterministic animation!**

No cannonball, no part, nothing whatsoever about any cannonball ever, throughout the whole history of cannonballs, has ever been at rest!!

Nothing in our Universe has ever been at rest or inanimate for a single Planck-length of time, ever!!

Total rest, total stillness, is as totally impossible in our Universe as cooling an object to absolute zero.

What’s more, the quantum particles and molecules forming the cannonball have been studied in very great detail by scientists for centuries, and the very most striking fact about them is that **they are absolutely not deterministic!!**

And their behaviour is, in fact, conclusive and undeniable evidence that quantum particles are intrinsically conscious and possess **Limited Free Will**.

Now let's show exactly why quantum particles are not deterministic, as well as why they're amenable to a probabilistic, statistical, mathematical treatment, and then, finally, we'll give the very first simple, logical, and intuitive, as well as rigorously scientific interpretation of all the experiments of Quantum Mechanics.

How Intrinsic Consciousness and Limited Free Will Solve the mystery of Quantum Mechanics

The Postulate of Intrinsic Consciousness: All the basic physical Energy and particles that form everything that exists in our Universe are, and always have been, conscious within themselves.

Or,

Assuming a Big Bang model of our Universe, we can say, The Big Bang Event was not just a physical event, but also a conscious experience experienced within the physical Energy involved, just like you are both a physical event (your scientifically observable body) at any time, t, as well as a conscious experience experienced within your physical form at the same time, t.

Limited Free Will: All individual physico-conscious entities, from electrons, to humans, to stars, possess the conscious ability to choose from limited sets of possible future states and actions to instantiate, for example, electrons consciously choose from the limited set, 'spin-up' or 'spin-down' in a magnetic field, a human consciously chooses from 'sit-up' or 'sit-down' on a double-decker bus.

With the fundamental principles clearly stated, we proceed to give the first simple, logical, and intuitive interpretation of all the experimental results of Quantum Mechanics.

The Stern Gerlach Experiment

The Stern and Gerlach experiment involves sending large numbers of electrons through a uniform magnetic field.

All electrons are magnetic entities; all electrons possess a magnetic moment called its ‘Spin’.

That an electron possesses spin just means that it behaves like a little compass needle when inside a magnetic field.

On passing through a magnetic field, we observe that all electrons instantiate one of only two possibilities with respect to the magnetic field; on passing through a North-South magnetic field, all electrons either align their spin parallel or anti-parallel with the field, which is to say, their magnetic moment

will point exactly North with the field, or else in exactly the opposite direction towards the South pole of the field.

So, all the electrons exiting the magnetic field will be pointing either spin-up or spin-down; electrons are never observed to align their spin in any other direction.

Now let's examine the conventional non-conscious interpretation of this electron behaviour.

According to conventional physics, electrons are non-conscious and probabilistic, thus, when such an electron encounters a magnetic field, it somehow, by some mysterious, inexplicable, probabilistic mechanism, it flips its spin 'up' or 'down', without any conscious sensation of the magnetic field, nor any conscious sensation of anything at all whatsoever because it's a totally non-conscious object.

This interpretation is irredeemably antimonous; if all the particles that we humans are formed out of, like electrons, are non-conscious and intrinsically probabilistic, then how are we conscious?

Also, how and why do we spend every moment of every day making conscious choices between limited sets of possible future states and actions to instantiate?

Centuries of total failure to give any remotely sensible answer to these questions, strongly motivates the serious consideration of any other existent simple, logical, and scientific interpretations.

So, now let's use **The Postulate of Intrinsic Consciousness** to interpret the same behaviour and see if we can make more sense out of things.

The Postulate of Intrinsic

Consciousness states that all the physical Energy that came into existence in The Big Bang Event is intrinsically conscious within Itself, and always has been since the very first moment of Its existence.

Therefore, The Big Bang Event was not just a physical event, but also a conscious experience experienced within the physical Energy involved.

Therefore, all the individual particles that later formed out of this physical Energy are also conscious.

A particle is a localised region of increased Energy density, at the centre of which is the particle's centre of Consciousness, within which it has some limited conscious perception of its local surrounding Universe, as well as from which it makes conscious choices from limited sets of possible future states and

actions to instantiate, such as spin-up or spin-down, just like you have some limited conscious perception of your local surrounding Universe, as well as the ability to choose from limited sets of possible future states and actions to instantiate, ‘up-vote’, ‘down-vote’, ‘no-vote’, for example.

So, now our electron is both a physical and magnetic object, as well as an individual conscious entity, or ‘animal’.

Electrons and the other fundamental particles are the very earliest and simplest animals of our Universe.

Since an electron is both a magnetic and conscious entity, when it enters a magnetic field it experiences within itself some conscious experience of the magnetic field, just like a human, you, for example, experience conscious

sensations of the Earth's gravitational field, or a strong storm that you step into, or what have you, within you physico-conscious self.

Conscious electrons, just like conscious humans who are made out of nothing except such conscious particles, experience conscious experiences of their local surrounding Universe within themselves, such as forces, fields, accelerations, etc.

And conscious electrons, again, just like conscious humans, indeed, like all the conscious entities of our Universe, enjoy pleasure and dislike pain, and, therefore, they consciously try to choose, from the limited set of possible states and actions available to them, only those that tend to minimise pain and maximise pleasure.

So, electrons always choose to align 'spin-up' or 'spin-down' with the field because they are the two orientations that minimise the Energy of the system and which are,

therefore, the least consciously strenuous physical orientations for the electron to maintain.

This is exactly the same reason why you lie down to sleep; for a human, laying down in a gravitational field is the easiest, least strenuous, least energetic, and, therefore, also the most comfortable way to exist in a gravitational field.

What's more, the Stern Gerlach experiment provides our strongest evidence that the basic stuff of our Universe possesses intrinsic Free Will.

You see, if before entering the magnetic field an electron is oriented such that its spin is already almost pointing 'up', let's say, then most of the time such an electron will proceed to collapse into a 'spin-up' state.

However, and very importantly, even if all the electrons are prepared such that their spin is already almost

pointing in the up direction, some small percentage of the particles will still choose to flip all the way round and point downwards!!!

The ability to surprise is the essence of Free Will!!

The nearer the electrons are to already pointing upwards before entering the field, the more likely they are to collapse into that direction, but no matter how nearly they're already pointing up before entering the field, (as long as they're not already pointing *exactly* up) some shrinking percentage of them will always choose to be contrary and flip all the way round into the other, further direction, the same way you sometimes, because you also possess Free Will, the same way you sometimes choose to take the long way home from work 'just cause' you possess the Free Will to do so.

Nota Bene: The essence of Free Will is the ability to surprise.

Quantum Tunnelling

In a quantum tunnelling experiment, a particle is sent towards a potential barrier that it either rebounds back from, or else that it tunnels through to the other side.

This tunnelling ability is a distinctively quantum phenomena; it cannot be accounted for at all in terms of non-conscious, classical physics.

Whether or not a given particle bounces back from the barrier or tunnels through it cannot be predetermined, the best that we can do is say that there is a certain finite possibility that the particle will bounce away from the barrier, and

a certain finite possibility that it will tunnel through the barrier, and that these probabilities sum to one.

The best way to understand this experiment is by way of an analogy with rabbits.

If we send large numbers of rabbits towards a barrier, a little wall, say, after experiencing some conscious perception of the wall, some percentage of them will turn back away from the wall, whereas the remaining percentage of the rabbits will consciously choose to jump over the wall.

The higher we make the wall the lower the percentage of rabbits that will choose to jump over it, until we reach some height at which no rabbits choose to attempt to jump over it.

Similarly, the higher we make the potential barrier in the tunnelling experiment, the less electrons that will choose

to tunnel through the barrier, until we reach some potential at which no electrons are capable of tunnelling.

The exactness of the analogy between rabbit and electron behaviour is due to the fact both rabbits and electrons are individual conscious animals possessing some limited conscious perception of their local surrounding Universe, as well as Limited Free Will, the conscious ability to choose between limited sets of possible future states and actions to instantiate.

There exists no remotely sensible non-conscious interpretation of this phenomenon, except to say that it's due to the particles' intrinsic, fundamental 'probabilism', which is to say essentially nothing at all, and which, also, and again, immediately begs the hard problem, 'How are we conscious given that we're formed entirely of non-conscious, intrinsically probabilistic constituent particles?, to which there exists no logical and possible answer.

The Two Slit Experiment

Very, very briefly since I've explained this experiment in so much detail elsewhere.

After passing through two nearby parallel slits, electrons, along with all other quantum particles, atoms, and molecules, are observed to form the interference pattern the experiment is famous for, a pattern in which the electrons crowd in certain areas of a screen behind the slits and totally avoid other areas, in

a repeating pattern of bands of electrons followed bands devoid of electrons.

Mathematically, this pattern is associated with a mathematical 'wave-form' or 'wave-function', a 'cos' or 'sine' wave, for example, and, essentially, the (magnitude of the) particle's wave-function corresponds to where on the screen an electron is more or less likely to land; the magnitude of a given particle's wavefunction is large at places on the screen where electrons are likely to land, whereas at places on the screen where the magnitude of the wavefunction is zero, no electrons will ever land.

Conventionally, this has been explained as 'resulting from the inherent probabilism, or statistical nature of the behaviour of quantum particles', which is obviously nothing more than a description, and not at all an explanation.

makes for a much more sensible interpretation of the quintessential quantum experiment.

Since all physical Energy is conscious, all physical particles are individual conscious entities, and, therefore, they all experience some limited conscious sensation of their local surrounding Universe, as well as the ability to choose from limited sets of possible future states and actions to instantiate.

Now the particle's waveform, instead of *just* being a measure of the probability of where the particle will land, is also, actually a mathematical graph proportional to the particle's conscious ability to perceive their local surrounding Universe.

Quantum particles use light to perceive their local surrounding Universe just like humans do, however, just *un*like humans, quantum particles are of the same order of magnitude as the

wavelengths of light that they use to ‘see’, and, therefore, when the light that the particle is using to ‘see’ goes to zero in some direction, then, of course, we never observe the particle head in that direction because it literally can’t see in that direction, it’s dark, and no conscious entity heads into directions it can’t perceive!

The regions of the screen where the wavefunction is large are regions that, from the particle's conscious perspective in its wave form, are well lit by the light that it uses to perceive its local surrounding Universe.

Here it’s important to remember that our Universe, as proven by thousands of corroborating experiments and theories, is nothing but conscious physical light Energy in various forms; ‘Space’ is really a very bad, or, at least, a terribly inaccurate name for space.

A much more scientifically accurate name for space would be ‘Light’.

The only reason space looks black at night is because our human eyes can only see a tiny fraction of all the wavelengths of light.

If we could see all frequencies of light, space would be ablaze at all times!

Our Universe is nothing but a very enormous sphere of physical light Energy, where some of the light has condensed into physical particles, atoms, molecules, etc., and quantum mechanics has shown that these quantum particles are capable of temporarily evaporating back into their surrounding sea of light Energy by way of which they consciously see and navigate their paths through space as well as where to collapse on any available screens.

There is a beautiful analogy to this quintessential quantum experiment found in nature in the form of bats.

Bats use sound waves rather than light waves to navigate their local surrounding Universe, and audible sound waves are much longer than visible light waves, and, therefore, some species of bat are of approximately the same magnitude as the sound waves that they use to 'see' with, and, therefore, just like electrons, bats are susceptible to interference effects.

The echolocating sound waves of a bat, on passing through slit like architecture, two stalactites hanging from the ceiling of a batcave, for example, will set up an interference pattern where, in certain directions, the magnitude of the bat's sound wave will be zero.

A bat will have no conscious perception of the directions in which the magnitude of its echolocating sound waves is zero, and, therefore, the bat won't head in these directions.

Thus, on passing through appropriately sized slit-like architecture to land on a net placed beyond the slits, bats will exhibit an interference pattern exactly like that of electrons in the two slit experiment.

Yet another simple, logical, and intuitive analogy between quantum particle behaviour and conscious animal behaviour further proving that all physical Energy is intrinsically conscious, and always has been since the beginning of Its existence in The Big Bang Event.

The Big Bang was not just a physical event, but also a conscious experience experienced within the physical

Energy involved, and, therefore, all the basic particles of our Universe are, in fact, individual conscious entities, which explains why us animals, formed entirely and exclusively out of such conscious particles, are also conscious and partake in similar basic conscious behaviours.

It can't be overstated just how revolutionary to our philosophical and theological understanding of our Universe and our existence as human beings it is that all the physical Energy of our Universe is, and always has been conscious!!

It means our early Universe was a conscious Mind!!

It means every star in our Universe is an immense cosmic Brain!!!

It means our Sun is a brain that has been watching and architecting all terrestrial existence since the beginning of time!!!

At **Level Two, The Theoretical Physics of The Mind of God**, we will use **The Principles of The Physics of Consciousness** to construct the first rigorously scientific theoretical models of the physico-conscious Mind of God.

Level Two, The Theoretical Physics of The Mind of God:

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