

The ancient Mesopotamians saw the world as consisting of three tiers: the heavens above where the sky gods dwelt, the terrestrial plane where humans and lesser deities reside, and the subterranean underworld where the dead are locked behind bolted gates that are guarded by demons. Just as their ziggurats would inspire future architecture, this map would serve as the blueprint for the cosmologies of future religions like Zoroastrianism, Judaism, Christianity, and Islam. It gave rise to the various modern conceptions of heaven, hell, and even purgatory that attempts to answer questions related to what happens after death. We also inherited our “laws” of interdimensional dynamics from the beliefs that circulated in the ancient Near East, laws that have influenced speculative explanations of how UFOs may be able to suddenly appear and disappear from our dimension—but not before stirring up some excitement.

The belief that the living are confined to the earthly plane, while the dead and supernatural entities like angels and demons can move freely between the underworld and the terrestrial realm, caused the ancients to attribute anomalous events to these entities. Funerary customs designed to appease the dead, as well as exorcism rituals, amulets, and charms were devised to keep evil entities at bay and to send them back to the netherworld—and live on in our own traditions. The belief that other dimensions not only exist, but that they influence the fate of our souls and our civilizations was the standard paradigm until the early 20th century. After a brief sidelining of these ideas, ufology, New Age philosophies, and some interpretations of quantum mechanics are now bringing them back from the margins in revised formulations.

Ancient Mesopotamian ideas echo throughout our ghost stories, in which the unfortunate occupants of haunted homes have their belongings moved or go missing—and even worse, have

their bodies taken over by these entities. Encounters with cryptids like the Mothman [not mentioned yet?/explain] and UFOs said to be piloted by humanoid entities have much in common with these stories of the activities of supernatural entities like ghosts, angels, and demons. These similarities have led some to attribute cryptid encounters and alien abductions to interdimensional entities capable of slipping into our dimension from another realm. [prompting John Keel to refer to ufology as “the new demonology.”]

In the ancient world, it was socially-sanctioned for shamans, oracles, priests, and prophets to seek divine messages from the deities and spirits. But with the rise of the centralized, monotheistic religions in the West, communications with interdimensional, supernatural entities, especially the dead and demons, were forbidden. Since all communications were to be with God directly or through an official mediator, these older traditions may have gone underground and expressed themselves as the encounters with interdimensional entities labeled as fairies, elves, and [ghosts] in European folklore.

Spiritualist mediums in the 19th century, however, were emboldened by a biblical precedent of cross-dimensional communications offered in 1 Samuel 28:3–25. In this passage, King Saul is told of his imminent death by the spirit of the prophet Samuel. To the Spiritualists, the Witch of Endor’s ability to summon Samuel’s spirit was proof that the dead are not only aware of the activities of the living, but that they are able to communicate with them from the spirit world (which Spiritualists also refer to as the astral plane or Summerland). The Spiritualists’ view that the boundary that separates our realm from the spirit world is permeable, gave rise to new beliefs and practices that attempted to contact entities from these other dimensions. The belief that spirits of the deceased, higher beings, and even negative entities can cross “the veil,” or “etheric plane,” and enter our realm has also inspired conjectures about the

possible interdimensional origins of UFOs. Even more influential have been the Theosophical ideas laid out by Helena P. Blavatsky that expanded Spiritualist beliefs. In *The Secret Doctrine* (1888), Blavatsky presented a multi-layered cosmology that contains not only our realm but also hidden, but accessible, spiritual planes. The hidden planes are said to be inhabited by a hierarchy of entities, including more advanced spiritual beings like “ascended masters.” In Theosophy, communication with these entities is possible through channeling and meditation, and the higher dimensions can be accessed through astral travel, a form of out-of-body experience. Like the Theosophists and those who follow similar mystical paths that branched off from Theosophy, individuals who claim to have come into contact with ETs and interdimensional entities associated with UFOs often report receiving messages from these beings. In the UFO contactee literature, these received messages echo the same themes of spiritual ascension and enlightenment passed down from Theosophy’s ascended masters.

Albert Einstein’s theory of general relativity—and the idea that followed from it that spacetime could be curved/alterd by mass and gravity—ignited new ideas about the nature of other dimensions and interdimensional travel. From this notion of the dynamic, mutable nature of spacetime arose speculations about the existence of tunnels that could connect distant points in spacetime—an idea first proposed in 1935. Wormholes, as these bridges created by curvatures of mass and energy are called, present a possible method of fast travel shortcuts through space-time. With the introduction of these gateways through the dimensions, science fiction experienced a major revolution, as it now had a device for taking us deeper into space and perhaps even into alternate universes.

In sci-fi, solid objects like [-----] can enter other solids like [-----] or create fast moving apparitions in the sky. These fictional capabilities that have led some to believe that UFOs' interdimensional activities may be explained using wormholes. Unfortunately, as is explained further in Chapter X on time travelers, wormholes are not a plausible explanation for the interdimensional activities of UFOs. UFOs are elusive, yet wormholes' presence would be exceptionally obvious due to enormous amounts of energy they contain. Nor can wormholes quietly penetrate solids [as UFOs are said to do]. Even if UFOs were able to travel through wormholes, their activities would not be *interdimensional* in nature. Wormholes operate in the normal three dimensions of space and one dimension of time, as general relativity does not include extra dimensions of space.

TARDIS—

This “popping in and popping out” behavior violates even the most speculative interpretation of general relativity, which would require an extremely energetic and obvious wormhole to be present before any pop-in from a time traveler. We will show, however, that if at least one additional dimension of space exists, there is the slight possibility that something like a TARDIS could be built. This hypothetical machine would be able to pop in and out silently and suddenly, and even include a realtor's dream of an impossibly roomy interior.

...

That extra dimension of space, if it is shown to exist, could open up some wild possibilities for explaining UFOs. In the absence of an additional dimension, one of sci-fi's most iconic space and time devices, Doctor Who's TARDIS, breaks the laws of geometry by being far bigger inside than it is on the outside. It also violates even the most speculative

interpretation of general relativity if it relies on wormholes to pop in and out of existence anywhere and at any time. Wormholes require massive amounts of energy, which would make them obvious to observers. (They would also have to be constructed in advance of any time travel.) On the other hand, if one additional dimension of space exists, the chances of being able to engineer something like a TARDIS improve slightly. This hypothetical machine would be able to pop in and out silently and suddenly like UFOs are said to do, and even it would also include a realtor's dream of an impossibly roomy interior.

...

Spiritual conceptions of other dimensions often view our reality as a constructed illusion or an inferior version of reality, more like the simulation hypothesis, in which higher dimensional influence is exerted by a more advanced entity or civilization, like a programmer of a video game, has created and controlled us and what we perceive as reality using an extremely sophisticated computational system. We may not actually exist in physical form, but only as data in this system. Even if we *do* exist in a physical form, according to this hypothesis, the reality presented to us may be a constructed illusion, and we are prevented from seeing and perceiving the full-complexity of the world, namely the higher realm inhabited by the programmer of the simulation. Since certain dimensions are hidden from us, we would be made to believe that our world, like a video game, is limited to two dimensions, simply because a limited-dimensional world requires less data and computational power to run. We will return to the simulation hypothesis in [Chapter X](#) and investigate the metaphysical conceptions of other dimensions in [Chapter Y](#). For the moment, however, we will focus on hypotheses that require the existence of at least one additional *physical* dimension of space.

Cut from TARDIS:

(short for Time And Relative Dimension(s) In Space) may offer some hints to how UFOs could operate interdimensionally. The concept of the TARDIS applies a more plausible concept to explain how Dr. Who travels across time, to different planets, and into different [dimensions]. From the outside, the TARDIS looks like an old-fashioned British police booth. But, its interior, which exists in another dimension, is much larger—perhaps even infinite, and is capable of changing the arrangement of its multitude of rooms. Even though the TARDIS is a fictional machine, its ability to defy conventional space limitations by transcending dimensions may be supported by developing concepts in theoretical physics that could also explain UFOs' interdimensional dynamics.

One of sci-fi's most iconic objects, Doctor Who's TARDIS, a machine which happens to violate geometry by being far bigger inside than it is on the outside, is capable of suddenly popping into existence anywhere and at any time. TARDIS stands for Time and Relative Dimension in Space, with the show repeatedly implying the utilization of higher dimensions. But, what is a "higher dimension," and what are the consequences if such a thing exists? It is

popularly believed that the wormholes or warp drive of general relativity involve higher dimensions of space. However, that belief is incorrect. General relativity only contains the familiar three dimensions of space and one dimension of time. The extreme bending, or curvature, of space and time may permit travel effectively faster than light or even backward time travel, but these almost magical trips would be associated with extremely massive, energetic wormholes or warping of spacetime that must exist before a traveler can exit. In other words, general relativity wormholes or warp engines can't hide, so they can't allow an object to suddenly and unexpectedly pop into existence, TARDIS-style. However, some recently proposed speculative theories *do* contain at least one extra dimension of space, and these theories might allow “guests” to pop in unexpectedly virtually anywhere and to reach through solids. These intriguing capabilities are very UFO-like, and will be explored below.

Obviously, the existence of one or more extra dimensions would not make *everything* possible. Within a set of redefined, constrained laws, physics would be expanded, though, and some sci-fi feats would be made possible—or at least more plausible. Unfortunately, (and to the disappointment of some sci-fi fans), [physical interdimensional travel of people and objects, violations of causality, the generation of infinite energy, escape from the bounds of the universe, wormhole stability to create shortcuts through spacetime, and instant interstellar travel] would likely remain beyond our abilities. But some other, intriguing possibilities would be revealed, like: [the manipulation of gravity (on small scales?) and various possibilities related to its manipulation (mention black holes), magic-like matter creation from nothing/out of nowhere, what can travel interdimensionally, exotic matter?, and new energy sources]. [In particular, black

holes might be transformed from daunting, destructive forces into tools for altering spacetime, tools that might even be used to pull off UFOs' magic tricks.]

Our investigation of the Interdimensional suspect centers around a geometric theory of at least one extra physical dimension of space, as proposed by theoretical physicists. Unlike the Interdimensional entity, the Spiritual/Metaphysical culprits of religion, myth, and various spiritual philosophies explored later on in Chapter 18, do not necessarily emanate from extra *physical* dimensions or from planes of existence or experience that are “outside” our 3D world. The “other dimensions” the Interdimensional suspect may operate from are also different from the multi-dimensional version of the simulation hypothesis discussed in Chapter 14, as the simulation hypothesis is not explicitly a physical theory. The simulation programmer may be operating from a space that contains many more dimensions beyond the 3D world that is presented to us. Just as the characters in a video game can never perceive or access the layer of reality where the programmer operates from, the higher dimensions of the simulation hypothesis are not part of our world, and our world may consist of a limited number of dimensions simply due to computational, bandwidth constraints.

Old versions of Scenario 3:

This third scenario is the most eerie of the three, because it would allow real solid objects to pop in from nowhere and disappear into thin air.¹ Here, the apartment building has only a single floor, meaning that there is only one universe, but some of its more advanced residents have developed technology that the other residents don't know about. In essence, they've figured out a way to burrow a tunnel through the thick ceiling and then move through the tunnel or fly drones through it. When something is traveling through the tunnel, it cannot be seen or heard by the residents. But it could arrive somewhere else in the building and then drop in, by falling through a hidden trap door in the ceiling. In this scenario, the tech-savvy residents are using a trick to 'jump over' the other residents.

For example, a number of the less tech-savvy residents, like 21st century humans, may form an outward looking circle, similar to the idea of "circling the wagons." They keep watch to make sure nothing gets into the center of the circle. But, the more advanced people launch a drone that carries a billiard ball through a tunnel in the ceiling. Then a trap door opens, dropping the ball right in the center of the circle of residents. The less tech-savvy people hear the billiard ball drop, turn around, and look at it in astonishment. "Where did that come from?," they ask. "Nothing could have gotten past us. Must be from another dimension!" they conclude.

In this third scenario, the only things that exist in the fourth dimension outside of our 3D universe are boring—possibly just a vacuum. There is still a fourth dimension in which we are constrained to a thin slice by a membrane, but that membrane can be modified using not-yet-known technology, similar to tunneling through the ceiling. Although nothing of any

¹ This would appear to violate conservation laws, however it involves mass and energy being "relocated" in such a way that they seem temporarily to have vanished, but they ultimately return to the universe. Also, their gravitation never vanishes.

consequence exists outside of the membrane, a very advanced entity *within* our universe possesses technology which can distort the membrane and thicken the gap slightly in a very specific area to create a tunnel, as in Fig. 2-3. That tunnel would allow atoms to use the fourth dimension to jump “over” other atoms, and later return back into the regular 3D universe. This **trickster** may have found a way to use strong localized gravity or negative energy to increase the thickness of the membrane just enough to slide matter right “over” a solid barrier and then drop it on the other side, such as inside a hollow object. This would be beyond the scope of general relativity, even though it might involve strong gravitation, hypothetical negative energy, or even quantum mechanics.

In Fig. 2-3, a trickster with advanced technology has found a way to distort the membrane a little. The trickster has also created a membrane on the lower side, so that it is a true tunnel, and any object traveling through that tunnel is invisible to our regular universe. Even though any object moving through that tunnel would be hidden from us, its gravity would still be detectable, although gravity from small objects is typically quite weak. So, in theory, the location and motion of this hidden object in the tunnel could still be detected by a slight glitch in gravity at that location. By using this membrane modification, **solid objects could be made to disappear (into the tunnel) and then reappear somewhere else out of nowhere.** Solid objects may even be able to appear inside another hollow solid or to travel past an impenetrable wall. An entity that possesses this technology could also reach in and manipulate anything on the far side of a barrier. [Refer to movie *4D Man* ?]

Unless and until some new physical principles are discovered which allows it, the ability to manipulate a hypothetical membrane that holds us into a very thin slice of the fourth dimension is science fiction. Even brane cosmology itself is pushing the boundaries of science

fiction. However, we can get an idea of the **real world** consequences of this wild concept if it ever becomes reality: Someone with a high level of scientific expertise produces a drone **which then tunnels into** the 4D membrane, and **this action** elevates the drone, **perhaps by a “distance” of only an atomic diameter**, in the fourth dimension. **As a result, the** drone becomes invisible to our world, and its atoms can freely slide over any of the matter in our world. Given these conditions, **then when the drone enters the tunnel, it** would suddenly be in an absolute vacuum except that it would still experience Earth gravity, and so it would need to fire rockets to stay above the surface of the Earth. This drone (**essentially** a rocket ship) could be hovering right in front of you with its rockets blazing, and yet you would hear and see nothing other than feeling its (very weak) gravity. It could even fly right through your head with essentially no effect at all.

A navigational problem would be encountered **by the drone**, though. Back in the real world, at least *we* could in principle detect where the drone is by its slight gravity. But given that it is completely cut off from our world, it **the drone** would exist in a certain location relative to the surface of the Earth, but there would be no GPS or matter or energy of any kind to guide it. We could in principle detect where it is, even though it is invisible and noiseless, but the drone itself would be flying blind in an absolute vacuum. One solution to this navigation problem would be to create a small hole in the membrane that normally makes the drone completely invisible to us. On our side of that hole could be a tiny camera which sends visual location information back to the drone. The camera would be real and solid, but it could also be **so tiny that it would be** unnoticeable.

The drone itself or a small payload could subsequently rematerialize by returning the four-dimensional membrane to its normal state in the appropriate region of space. **This is similar to opening a trapdoor in the ceiling and letting a payload fall down. In the brane cosmology**

version of this rematerialization, there is an unfortunate side effect. Before rematerialization, the atoms that are in the payload exist “above” (above in the fourth dimension) atoms of the real world. If the tunnel membrane is removed and the payload of atoms drops onto the other atoms, there will be a sudden very compressed state of matter created with too many atoms trying to occupy the same space. If the drone is rematerialized in the air, atoms from the air would suddenly become embedded in the drone, and this would cause a significant temperature rise (probably a few hundred degrees C) in addition to causing strange chemical reactions. If the drone or its payload were suddenly rematerialized inside a *solid*, a violent explosion would occur. Perhaps a way to avoid these violent reactions would be to first evacuate the air where the drone is to be rematerialized. Or to perform a [switcheroo] where the drone or payload returns to the real world while simultaneously the matter that had been in that location is elevated in the fourth dimension.

❖ *Scenario 3: An extra dimension is exploited by an entity within our universe.*

This third scenario is the most eerie of the three, because it would allow real solid objects to pop in from nowhere and disappear into thin air.² In this third scenario, the only [fully fleshed out] three-dimensional universe that exists is our own. A fourth dimension exists, but nothing of any consequence exists outside of the membrane. So, the UFO effects are caused by a trickster *within* our 3D universe with a high level of scientific expertise. Even though our 3D universe is constrained to a thin slice [of the fourth dimension?] by a membrane, that membrane can be modified using not-yet-known [futuristic] technology. A very advanced trickster within our

² This would appear to violate conservation laws, however it involves mass and energy being “relocated” in such a way that it seems temporarily to have vanished, but it ultimately returns to the universe. Also, its gravitation never vanishes.

universe could use this technology to create a tunnel by distorting the membrane and slightly thickening the gap between it and the fourth dimension in a very specific area, as shown in Fig. 2-3. That tunnel would allow atoms to use the fourth dimension to jump “over” other atoms, and later return back into the regular 3D universe.

The trickster, for instance, could produce a drone, thicken the fourth-dimensional membrane around the drone by a few atomic diameters, and elevate the drone into the fourth dimension. The trickster could then create another membrane under the drone in the fourth dimension, so that the drone becomes invisible to our world, and its atoms can freely slide over any of the matter in our world. With this membrane modification, solid objects could be made to appear out of nowhere and then disappear, appear inside another hollow solid object, or travel past [through] an impenetrable wall. An entity that possesses this technology could also reach in and manipulate anything on the far side of a barrier.

Given these conditions, the drone would suddenly be in an absolute vacuum up in the fourth dimension, but it would still experience Earth[’s] gravity. To counter this, it would need to fire rockets to stay above the surface of the Earth. With a propulsion system, this drone (or rocket ship) could be hovering right in front of us with its rockets blazing, and yet we wouldn’t hear and see anything. It could even fly right through our heads with essentially no effect at all.

Any object moving through that tunnel would be hidden from us in our regular universe, but we would still feel its gravity—even though gravity from small objects is typically quite weak. The fact that the location and motion of this hidden drone in the tunnel could, in theory, still be detected by a slight glitch in gravity at that location would help the trickster address the navigational issues that would arise. [Refer to movie *4D Man* ?] The drone would be flying blind through the vacuum of the fourth dimension without any GPS, matter, or energy to guide it.

However, if a small hole is created in the membrane that normally makes the drone completely invisible to us and a tiny, but solid and undetectable, camera is inserted on our side of that hole, visual location information could be sent back to the drone. [feels digressive]

The dangerously high temperatures, chemical reactions, and explosions that would occur if the drone were rematerialized [rematerialized definitely needs to be clarified bc no mention was made of dematerialization] by returning the fourth-dimensional membrane to its normal state could be averted by first evacuating the air where the drone is to be rematerialized. A simultaneous matter substitution/exchange would be one alternative: As the drone is being returned to the real world, the matter that had been in that location could be elevated into the fourth dimension.³ [feels digressive]

In our apartment analogy, this scenario involves a building that has only a single floor. But some of its more advanced residents have developed technology that the other residents don't know about. In essence, they've figured out a way to burrow a tunnel through the thick ceiling and then move through the tunnel or fly drones through it. When something is traveling through the tunnel, the residents can't see or hear it, but it could arrive somewhere else in the building and then drop in, by falling through a hidden trap door in the ceiling. In this scenario,

³ The drone itself or a small payload could subsequently rematerialize by returning the four-dimensional membrane to its normal state in the appropriate region of space. This is similar to opening a trapdoor in the ceiling and letting a payload fall down. In the brane cosmology version of this rematerialization, there is an unfortunate side effect. Before rematerialization, the atoms that are in the payload exist "above" (above in the fourth dimension) atoms of the real world. If the tunnel membrane is removed and the payload of atoms drops onto the other atoms, a sudden very compressed state of matter will be created with too many atoms trying to occupy the same space. If the drone is rematerialized in the air, atoms from the air would suddenly become embedded in the drone, and this would cause a significant temperature rise (~100° C) in addition to causing strange chemical reactions. If the drone or its payload were suddenly rematerialized inside a solid, a violent explosion would occur. Perhaps a way to avoid these violent reactions would be to first evacuate the air where the drone is to be rematerialized. Or to perform a [switcheroo] where the drone or payload returns to the real world while simultaneously the matter that had been in that location is elevated in the fourth dimension. [revise accordingly]

the tech-savvy residents are using the tunnel (the distorted membrane) to “jump over” the other residents.

To figure out what is happening, a number of the less tech-savvy residents (such as 21st century humans) may form an outward looking circle, similar to the idea of “circling the wagons.” They keep watch to make sure nothing gets into the center of the circle. But, the more advanced people launch a drone that carries a billiard ball through a tunnel in the ceiling. Then, a trap door opens, dropping the ball right in the center of the circle of residents. The less tech-savvy people hear the billiard ball drop, turn around, and look at it in astonishment. “Where did that come from?,” they ask. “Nothing could have gotten past us. It must be from another dimension!” they conclude. [punchline isn’t clear here]

Since the height of the ceilings in this apartment building would actually be almost zero and the “residents” would be 2D cartoons, this analogy should not be taken too literally. However, if we *are* constrained in a membrane within a higher dimensional space, then someone or something that exists within our 3D world may be able to conjure solid objects “out of nowhere” and then withdraw them. Projections of light, sound, and even manipulation of objects would also be possible, similar to what the trickster residents in the building could do by making tunnels in the ceiling (Scenario 3). This would be beyond the scope of general relativity, even though it might involve gravity or hypothetical negative energy. [this needs to be anchored to something or maybe moved to after 1st sentence of next para.] Unless and until some new physical principles are discovered which allows it, the ability to manipulate a hypothetical membrane that holds us into a very thin slice of the fourth dimension remains in the realm of sci-fi. (Even brane cosmology itself veers into this territory.) If this wild concept ever becomes

reality, we have three viable models for how a fourth dimension could be used to produce UFO effects both from within and beyond our world.

One of the models, Scenario 3, even allows for direct manipulation and movement of solid objects. While the string theory of the membrane does not allow particles to pass through it, gravitational effects *are* permitted to cross the membrane. So, if the influence is coming from outside our membrane, as in scenarios 1 and 2, solid objects from a parallel universe or from an omnipresent multi-dimensional being could not be brought into our 3D universe. Instead, entities outside our membrane may be able to move things around inside by using mini black holes, and they may even be able to transmit gravity vibrations through the membrane to create the illusion of lighted objects like UFOs.

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membrane may be able to move things around inside by using mini black holes, and they may even be able to transmit gravity vibrations through the membrane to create the illusion of lighted objects.

The Spiritual/Metaphysical suspects said to operate from “other dimensions” described in religion, myth, and various spiritual philosophies are investigated in Chapter 18, whereas this chapter deals with a geometric theory of at least one extra physical dimension of space. The “other dimensions” described in religion, myth, and various spiritual philosophies are not specifically related to extra *physical* dimensions. Instead, these earlier concepts deal with other planes of existence or experience which are not specifically “outside” our 3D world. Another concept of “other dimensions” has also been proposed in more recent times that is also not specifically a physical theory: the multi-dimensional version of the simulation hypothesis. [chapter X]. Like the unethical hypothetical experiment in which an infant is strapped to a video game display and is led to believe that the universe is two dimensional, we may be tricked into believing the universe is only 3D by entities that are simulating our reality from a space with many more dimensions. Perhaps the simulation of only a 3D world reduces the necessary bandwidth. Neither the Spiritual/Metaphysical [replace with supernatural] nor the simulation versions of “extra dimensions” will be discussed here.

Other scraps with commentary:

Why this is the case is not exactly clear when framed in terms of the tunnel analogy

InnerSpaceways Incorporated I S P

InnerSpaceways Incorporated I S P

3:48 PM Mar 24

As this stands (in this version and in the original), it feels a little disconnected from the explanation that comes before. It's difficult for me to gauge, but it feels like this targeted towards experts who may scrutinize these ideas more closely. But it may not feel relevant to general audience readers/it may be info overload. The concept of rematerialization def needs to be elaborated or clarified. Is there a way to do this using the HVAC ducts example, as this is the lowest-effort shorthand that readers will already be familiar with?

In the real world, someone with a high level of scientific expertise, for instance, could thicken the 4D membrane around a drone by just a few atoms across (i.e., a few atomic diameters) and elevate the drone into the fourth dimension. By creating a second membrane under the drone in the fourth dimension, the drone would become invisible to our world. Since it would suddenly be in an absolute vacuum but still experiencing Earth gravity, the drone would need to fire rockets to stay above the surface of the Earth. With a system of rocket propulsion, the [atoms of] the drone could freely slide over any objects or matter in our world. Even though its slight gravity would be felt, this drone (or rocket ship) could be hovering right in front of observers with its rockets blazing or flying over their heads, yet they would not hear or see anything. They would be essentially unaffected.

[Of course,] the drone would probably experience navigational challenges while in the fourth dimension and re-materialization issues when moving between our world and the fourth dimension. Cut off from our world and any GPS, matter, or energy that could guide it through an absolute vacuum, the undetectability of the drone's slight gravity could be addressed by creating

a small hole in the invisible membrane and installing a tiny, nearly imperceptible camera in that hole for communicating visual information.

Previous version of suspect profile:

Chapter 15

Suspect #4: Interference from a Higher Dimension

AN INTERDIMENSIONAL ENTITY

(An Entity from an Extradimensional or Parallel Universe)

Suspect Information

Aliases: Other- / Trans- / Extra-dimensional Entity; Fuzzball; Superstring Entity

Characteristics: An intelligent entity or natural process which can create anomalous effects that require the use of at least one extra dimension beyond our standard spacetime. The entity or process may “live” in a higher dimensional spacetime, within which our spacetime is a subset. Alternatively, it may “live” in another similar spacetime that is adjacent to ours, but slightly separated by a small distance in a higher dimension. Another possibility is that the entity or process originates from our *own* spacetime, but has some degree of control over a higher dimension. Such control may allow objects to reach through solids or appear “out of nowhere.” Based on our incomplete knowledge of physics, there is a slight possibility that advanced technology or a natural quantum mechanical effect might produce objects that are identified as UFOs.

Method of Operation: There is a small possibility that we live in a universe that has more than just the three dimensions of space and one dimension of time. Some theories have been postulated to explain the relative weakness of gravity compared to the various physical forces:

the strong nuclear force which holds atomic nuclei together, the weak nuclear force which governs radioactive decay, and the electromagnetic force which governs chemistry and just about everything else. The idea behind several of these physical theories is that gravity is relatively weak, simply because it can escape into another higher dimension. If correct, all of the particles and forces that we are familiar with are confined to a very thin slice of at least one extra dimension. This confinement is enforced by what is referred to as a membrane, but that membrane is permeable to gravity, which can leak out of our universe.

The tiny universe that exists under a microscope slide is a good analogy to understand the meaning of a membrane and an extra dimension. In this analogy, the universe (the orange liquid in the illustration below) seems to have only two dimensions of space: X and Y. In reality, there is a third dimension in that orange universe: Z, but Z is so thin that it is not perceived as a real dimension. It is effectively impossible for a bacterium to move in that direction. However, a microscopist can tap on the thin glass cover slip (the membrane), and this tapping can cause distortions in the two-dimensional world.

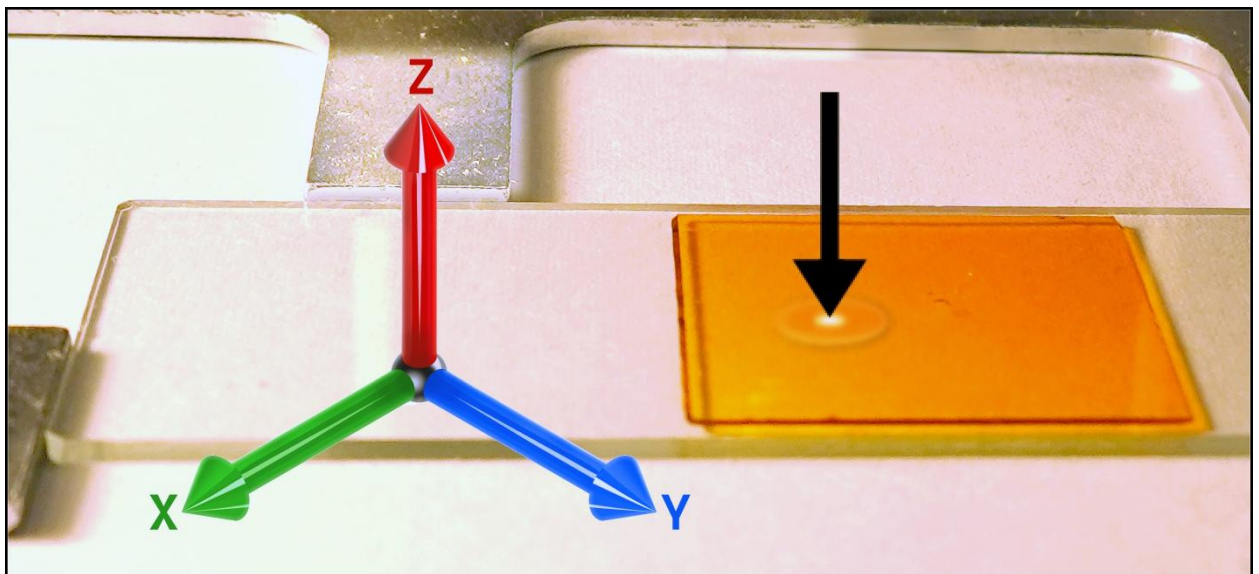


Fig. xx. Microscope slide with a thin flexible cover slip. Under the cover slip is a thin layer of orange liquid, which represents a 2D version of our universe. The black arrow is pushing downward onto the membrane (the cover slip) from the “extra dimension”, which in this analogy is the Z direction.

In the microscope analogy, the extra dimension (Z) is probably between a tenth and a hundredth of a millimeter thick. In our real universe, if there is an extra dimension, it is probably less than the diameter of a proton.⁴ By tapping on our membrane, either using gravitational waves or even mechanical tapping, effects could be produced that would be detectable. These effects could be created anywhere in our three-dimensional space, including in the center of a solid object. Mechanical tapping at a rate of several hundred trillion times a second could produce light in our universe, and even a very tiny amplitude of tapping at that frequency on a real microscope slide, such as in the image, will produce light around the tapping point.

Possible Capabilities: Using gravity or mechanical oscillations in a direction other than X,Y, or Z dimensions, the Interdimensional may be capable of using extra-dimensional vibrations to incite changes in our spacetime. It may be able to create lighted objects of any shape and color that can appear to move in any arbitrary way at any speed—or even exhibit instantaneous displacements. Such objects could have a radar echo, a heat signature, and emit light. Any shape of electrically-conducting air plasma could also be spontaneously created from air molecules, and this conductor could short-circuit electrical equipment. Some instances of ball lightning could also, in principle, be caused by this effect.

Possible Motives of An Intelligent Interdimensional Entity:

⁴ See: “Large Extra Dimensions,” *Wikipedia*, https://en.wikipedia.org/wiki/Large_extra_dimensions.

- If the Interdimensional is a higher-dimensional intelligence, then we can only speculate about its biology or logic due to the unknown physical laws that may govern these higher dimensions.
- The Interdimensional may exist in another civilization living in a “nearby” distinct and stable spacetime with similar physics to our world, but separated from us by a certain distance in an extra dimension of space. In that case, the desire to investigate life forms in other stable spacetime systems and study extradimensional differences are possible motives.
- The Interdimensional could also be an extraterrestrial or time traveler who has always existed in our *own* spacetime, but who possesses advanced tech that allows for some control over an extra space-like dimension. Such technology would make it possible for the entity to make objects disappear and reappear by raising and lowering them just a tiny distance in the “extra” direction. In this case, the motive would be the same as Suspect #1, the ET, or Suspect #5, Time Travelers.

Non-Intelligent Extradimensional Effects—

An extradimensional influence on our universe may be an unknown natural effect, in which case there would not necessarily be any type of “motivation.” In the absence of intelligent direction, influence on our spacetime may merely result from extreme random quantum fluctuations, or “storms,” in the higher dimensional spacetime. These storms may be normally unobservable in our spacetime, at least not directly. Occasionally, however, they may be strong enough to send observable signals through a semi-rigid membrane. Alternatively, observable events may simply be returning echoes from events that originally occurred within our

spacetime. These events could be occasionally amplified in the higher dimensional spacetime and then sent back to us through the membrane. This could be a manifestation of the quantum observer effect. The speculations about “storms” or “echoes” bear no resemblance to any known physics, and are simply mentioned here as placeholders for possible future discoveries.

Circumstantial Evidence: Some of the more speculative physical theories (which technically should be called “hypotheses”) propose that additional dimensions exist. If they do exist, some of the most mysterious UFO cases may have resulted.

Alibis: The extra dimensions suggested by various versions of string theory may not exist. If extra dimensions do exist, interactions through the membrane that constrains our spacetime may not be possible. The concepts of higher-dimensional “beings” and “quantum storms” are extremely speculative and belong more in the category of *novel thought experiments* than they do in the category of *likely explanations*. Nonetheless, these general concepts have not yet been absolutely excluded from the realm of possibility.

Comments from the profile:

Lisa Messinger

Jul 18, 2024

I suppose this is all necessary to the point you need to make, but tbh, it seems one has to be either a physicist or a student of physics to follow most of it. Is there a way to 'dumb it down' for non-scientific-minded people (like me! lol) with analogies or more in-depth explanation of terms?

Surely the avg reader will not understand string theory, spacetime ripples, gravitons, fundamental forces of nature, etc., unless maybe they're avid followers of Neil deGrasse Tyson or have studied to become a Jeopardy contestant? Haha!

On the other hand, maybe it doesn't matter, as long as we get the general gist of what you're telling us and we can gloss over the complex parts...

Lisa Messinger

2:03 PM Jan 26

Re your concern about this being too detailed, to me this feels like the end of Characteristics, and the rest should be in the body of the explanation. Or if you don't want to end here, than at least end before "Such control...", since that doesn't seem to be part of characteristics to me.

I still think you should review each suspect and try to make all the categories in the overview section (e.g. Aliases, History, Method of Oper, Capabilities, Surveillance Attempts, and so on) the same for each one, so readers have a sense of flow and consistency right at beginning and can make comparisons. For example, you have "Hallmark Traits" for the human mind, so isn't that along the same lines as characteristics?

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InnerSPaceways Incorporated I S P

InnerSPaceways Incorporated I S P

3:37 PM Jan 27

Good advice. Will go through and standarize. If you can highlight inconsistencies as you spot them, that would also be helpful.

Lisa Messinger

Lisa Messinger

3:42 PM Jan 28

Well, they're all inconsistent, bc no 2 have all the exact same categories, do they?

What if you (or I could do it) create a sep doc just listing each suspect and below it the current categories in its intro section so we could see how many have the same ones, which ones are missing categories that others have, and how many add'l categories there are/where they are. Maybe this could help you figure out if the diff category can be removed from intro and moved to the body or if it can be written/included in other suspect intros. Does any of that make sense? LOL

I know it's prob a tall ask, since there's a world of among the suspects, so there are diff intro elements for each one, but maybe it's worth a try? If I'm confusing the hell out of you, I can make the doc and show you what I mean, so just let me know.

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InnerSPaceways Incorporated I S P

4:17 PM Jan 28

I don't think I'm confused about the side-by-side comparison. I think I understand. Originally, the categories were intended to be tailored to each suspect bc the same terminology/concepts didn't fit all of them. But, it seems like this is confusing and consistency is probably better. (They were also intended to be a one-sheet/fit on one page, but it didn't work out that way. Ha.) I'm working on the Metaphysical chapter atm, but I will take a look at these categories tomorrow and see if there is an easy solution.

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InnerSPaceways Incorporated I S P

Jul 25, 2024

Robert: While the observer effect has been introduced and explained on p. 250, this seems to be the first mention of quantum gravity and should be briefly explained for readers.

Bill Lee

1:36 AM Nov 11

This has been re-writ for clarity.

Comments above copied from original document

1 more reply

Lisa Messinger

Lisa Messinger

2:40 PM Jan 26

Re-written for clarity, eh? LOL Since I only understand about 1/10th of what is says, it's hard for me to say whether it's too in-depth for this section, but it seems like the Method of Oper is only the microscopic slide explanation (along with the illustration) and everything before the mention of the slide is about the theories that explain it, but is not part of the proposed Method of Oper., so should be moved below to further explain.

The use of the analogy of the universe under a slide is a good one for those of us who struggle with the language of science & theories, but is there any way to further reduce the technical aspect through other analogies or visuals? If not, maybe its okay that some readers will simply scan this section without much comprehension and just continue on, since they won't necessarily care about the how, just about whether you present a believable possible explanation for the unknown...?

But to answer R's original concern, I do think this is too much for the overview section, since there's a place for it when we get into the assessment, right? So there doesn't seem to be a need to present such detail up here for any of these suspects. After all, if TV is accurate (lol), homicide detectives simply have a white bd with basic facts for each case and save the details for the hard or computer files, right?

Show more

Bill Lee

Bill Lee

2:17 PM Jan 27

Speaking of computer files (& sometimes I want to file my own computer in the circular bin), any time you see too-technical stuff (which means I rote it), like here, flag it and I'll rewrite just a low-tech summary for the manuscript and relegate the original text to www.heavenshouldinis.com, which the UFO tekkies & talking heads kin reed iff'n there sew ink-lined.

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Lisa Messinger

Lisa Messinger

Jul 18, 2024

Is this what we call an alternate universe (or the parallel universe in your title)?

Lisa Messinger

2:49 PM Jan 26

Except, again, you don't list Motive as one of these overview categories for Suspect #1 but instead discuss it much farther down in that chapter. I also think it would bear repeating the motive here instead of simply saying it's the same.

Lisa Messinger

Lisa Messinger

2:08 PM Jan 27

I honestly don't know what you're talking about in this entire para or how it fits in under Motives or relates to UFOs. Maybe if you need/want to keep all this complex astrophysics theoretical stuff, esp here in the intro, you could more directly talk about how it relates to the UFO phenom?

Lisa Messinger

1:54 PM Jan 27

so why aren't they?

Lisa Messinger

Lisa Messinger

1:56 PM Jan 27

Pretty awkward construction. Do you mean "If they do exist, they could be responsible for some of the most mysterious UFO cases."?

Lisa Messinger

Lisa Messinger

1:59 PM Jan 27

I feel like this could be boiled down into 2 sentences, but since I hardly understand any of it, I'm not sure! lol