

Because UFOs seem to defy some of the laws of physics, they may be manifestations of not-yet-known physical laws. A slim possibility is that our **universe, made up of three space dimensions** (XYZ) and one dimension of time, is a subset of the universe that has at least one additional dimension. The existence of extra dimensions has been hypothesized in various versions of string theory, and mathematical physicist Eric Weinstein has independently suggested that extra large-scale dimensions of both space *and time* may exist. If so, this added complexity may be the cause of some of the more puzzling UFO sightings. UFOs may originate from a higher dimensional universe, and the scarcity of physical evidence could be due to the fact that an object that spontaneously appears from a higher-dimensional world can easily disappear again. The existence of extra dimensions might also explain the way objects, or projections of objects, travel at high mach speed in air without generating a high temperature plasma or a sonic boom, as well as the way those traveling at extreme speed underwater might not create any disturbance on the surface. Ordinary solid objects should not be able to accomplish these feats. But, if the illusion of a solid object could be introduced from a higher dimension, and then removed and quickly replaced by another illusion slightly ahead of the first, with this process continuously repeated, the appearance of very fast motion could be simulated.

A second possibility is that UFOs hail from a parallel universe with the same number of dimensions as ours—but are displaced from us by an unseen dimension. This second possibility, the popular *parallel universe hypothesis*, [[Lisa: Counterpart show](#)] posits the existence of adjacent, essentially parallel [[side-by-side ?](#)] universes. These would possess the same three

space and one time dimensions as ours, possibly similar laws of physics, and the ability for **technologically** advanced beings from this parallel universe to interact with our own island of spacetime. [Parallel universes are different from the multiple futures suggested by quantum mechanics, though. The divergent futures created through the splitting of the universe nanosecond by nanosecond [~are like the branches of a tree] that are distinct and inaccessible to each other. In contrast, parallel universes are [~more like pages of a closed book] separated only by a small distance in an extra dimension and may be able to influence each other.] [Alt to below. Analogy would be helpful here.] [ Lisa:I would suggest MANY analogies for MOST of this! lol]

As discussed above, one interpretation of quantum mechanics is that the universe splits into multiple different futures nanosecond by nanosecond. Each of these futures would be distinct and inaccessible to any of the other futures. However, these distinct futures are not the same as “parallel universes” that are simply separated by a small distance in an extra dimension. If one or more parallel universes exist, they may be able to influence each other.

Numerous experiments have been conducted in the search for these extra dimensions or the physical consequences of their existence.<sup>1</sup> But no **concrete** evidence of the existence of extra dimensions has been supplied yet, and their existence seems unlikely. However, they remain a theoretical possibility, because they would solve a number of problems in physics.

### **How Something Might Reach into Our World from the “Extra Dimension”**

If extra dimensions exist, then gravitation in the form of gravity waves, or hypothetical gravity particles called gravitons, might be able to travel through these extra dimensions. If

---

<sup>1</sup> For a deeper exploration of these topics, see the “Gravity, Antimatter...” below on [www](#).

gravity waves from an extra dimensional direction are pointed into our XYZ universe at a certain location, and if these waves have a frequency of a few hundred trillion oscillations per second, they will cause electrons and protons to oscillate “up and down” in the direction of that extra dimension.

[move microscope explanation from above overview to here] The microscope slide universe is an analogy. Pressing up and down at a high frequency (black arrow in the image) can produce light within the orange liquid. That light will radiate outward within the orange liquid, seeming to radiate from a point directly below the black arrow. This is because oscillating charged particles emit electromagnetic radiation perpendicular to the direction of the oscillation. If there is an extra dimension of space besides XYZ, charged particles that are vibrating in this extra dimension will emit light within the XYZ space, which is perpendicular to that extra dimension. In addition to gravity waves causing vibration of the membrane that restricts our universe to XYZ, direct mechanical force applied to the membrane (in the direction of an extra dimension) may have the same effect. It could also create light, which we would see [that is visible to us (?)]. This trick could be used to create the appearance of an object of any shape, and the object could appear to move in any direction at any speed. The equivalent in the microscope slide world is tapping the top cover slip rapidly while moving the black arrow along a path as the tapping continues.

If the tapping is more intense, with a larger amplitude of motion, the air in our universe could become a plasma at that location, and it would reflect radar and conduct electricity. [LISA: as in magic trick, the connection to which I feel like we've lost sight of in these suspect sections? And is the "trick" the direct mechanical force?] These effects could be introduced inside a completely shielded enclosure as easily as they could be introduced somewhere in the open air.

For example, a conductive plasma in the shape of a wire could short circuit a battery. This faux wire could suddenly appear inside the engine compartment of a car and then suddenly disappear. This is a hypothetical example of how extradimensional effects would be capable of the magic trick of reaching through solids. A glowing plasma could also explain the visibility and radar reflectivity of the Tic Tac, which was whiter (more luminous) than the background. It could also explain the cross on the ocean, which was also lighter or more luminous than the ocean surface.

[Comments (Lisa) So to continue with my moronocity, I don't think any amount of reading this over and over again is going to help me grasp most of what you've written so far in this suspect section, but this part I understand - that the theory of extradimensional effects could explain some of the most mysterious cases. And what I'm saying is that if it can't be reduced to layman's terms, maybe that's fine, as long as we all understand that the point is that there could be an explanation, even if we don't understand it, bc we (readers) can see that you and other large brains DO understand it!

If that helps you decide whether to leave all this as is or to re-write for simpletons, or remove it entirely and just put it up on web site, then maybe that's all the help I can be?

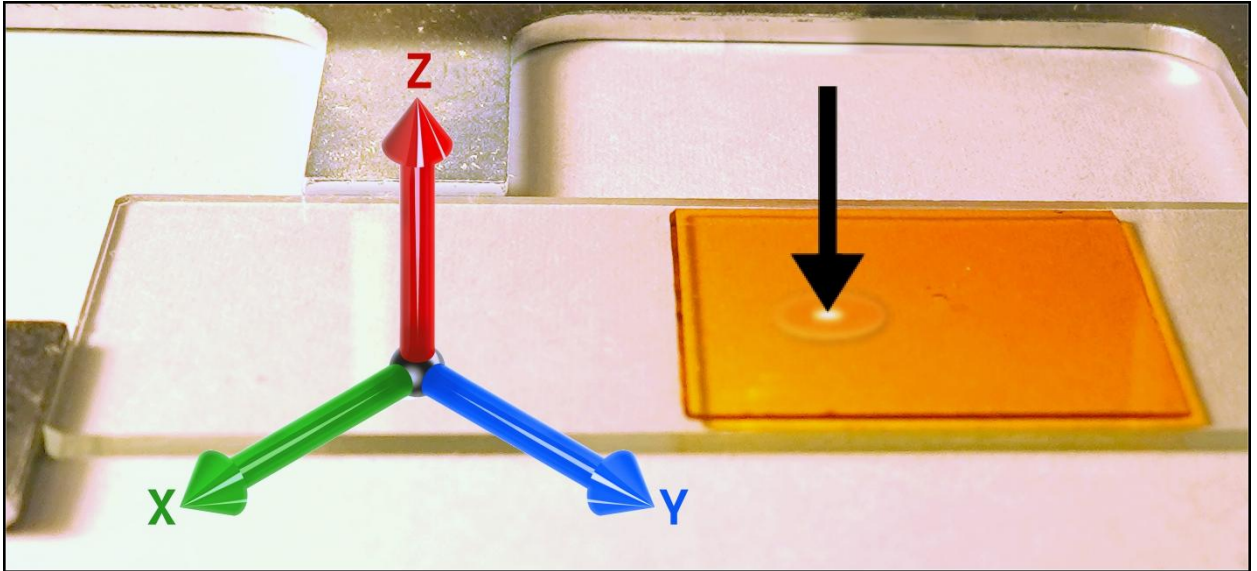
ISP: Bill has a valuable contribution to make here, as he is able to get much more specific and concrete about something the talking heads who try to explain UFOs via string theories dance around: the specific mechanics of how anything in dimensions outside the four we inhabit could interfere in our world to produce UFOs. To explain his hypothesis, which is rather novel, the reader needs to understand some fundamentals about string theories. At the same time, because he is pitching something new, he wants to present a serious, air-tight, not watered-down argument—just in case experts on the subject are reading and decide to quote him. In my

assessment, this creates a dilemma, because the piece has to operate on two levels: newbie and expert. My assessment could be off, though.

I've read a few UFO books and watched various UFO vids where string theory is mentioned, and they usually don't go much further than saying that string theory posits the existence of extra dimensions beyond what we experience. Then, they discuss how UFOs' impossible behaviors are explained by them being able to slip in and out of our dimension. Bill has taken on quite a challenge here (and throughout the book) because he doesn't want to take this lazy shortcut and wants the reader to understand which parts fit and do not fit with these hypotheses. (Also, other ufologists take some insane liberties in talking about other dimensions, and things have gotten a little out of hand/ridiculous. "Other dimensions" can mean anything and function however you like, if you dispose of any need to provide scientific grounding. Ha.) For now, I'd say move on to the next chapter. Bill and I can work on revising this one. Hopefully we can find a way to make it work on both levels.

Lisa Messinger

Aha, I understand the dilemma much better now, and Bill's challenge of speaking to both ends of the spectrum. I agree with your assessment, but hopefully Bill can figure out a way to express his ideas to both groups with the same language...



**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.

### **Conclusions:**

Glowing shapes that can be created anywhere, move at any speed, and can turn into a plasma which can conduct electricity, reflect radar, and be warmer than the surroundings would explain all of the top tier cases. In every one of these cases, the featured objects were brighter and warmer, but never dimmer and colder, than the background. So, the observation that these objects can reflect radar but can apparently turn on and off at will or apparently travel very fast would be consistent with extra dimensional [standardize to 1 word] vibrations. The same can be said of the Gimbal objects, in which a warm, radar-reflecting object of any arbitrary shape can be created. Similarly, the Levelland case can be explained if a large, light-emitting object simultaneously appeared along with a small amount of conductive plasma that momentarily appeared inside the cars to short the batteries.

[Alt: Similarly, the Levelland UFO may have been a large, light-emitting object that simultaneously appeared along with a small amount of conductive plasma that momentarily appeared inside the cars to short the batteries.]

[Something feels awkward here to me.

1] The same principles could be applied to / could explain the Gimbal objects, ...

(same doesn't quite fit, because this is the first specific case mentioned)

OR---

2] If warm, radar-reflecting objects of any arbitrary shape can be created through these vibrations, extradimensional activities could explain the Gimbal objects.

Lisa Messinger I agree re the use of "same." Why not simply, "This could be an explanation for the Gimbal objects..."?]

These vibrations may be in the form of gravity waves, although gravity waves of such high frequencies would be extremely difficult to produce at will, and would require enormous amounts of energy to be expended outside of our membrane. Simply tapping on our membrane would require far less energy, but it's not clear whether mechanical motion could travel through the membrane.

The "tapping through membrane" concept is extremely speculative at best, but given that we don't know all the physical laws yet, it remains slightly plausible. The various versions of string theory are the main drivers of the idea that there are additional dimensions, but the existence of other dimensions or other universes may not be provable using the scientific method. Of course, physicists are not the only thinkers who have speculated about other dimensions, as theologians and philosophers have long been contemplating their possible existence. Even though the reality of other dimensions and parallel universes has proven difficult

to confirm, the cosmologies of many religions describe other dimensions or realms beyond our visible, tangible one. These other dimensions are said to be inhabited by a host of entities whose essence is distinct from our material form: deities, spirits, angels, demons, elementals, fairies, and ghosts, to name a few. Although the location of these dimensions, the ways of accessing them, and the beings said to inhabit them vary widely across belief systems, they generally include heavens, hells, and liminal realms. The suspects said to emerge from the other dimensions conceived of by metaphysicians, religious leaders, and occultists—the Metaphysical/Spiritual Entity and the Ultraterrestrial—are investigated later on.