

# **PROCESSING THE FUTURE WITH YOUR MIND**

How To Amplify Your Biological Electromagnetic Energy With A Very Simple Tool

Rev 2.1

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***Most electrical activity in vertebrates and invertebrates occurs at extremely low frequencies, and the origin—and medical potential—of these frequencies have eluded scientists. Now a university study provides evidence for a direct link between electrical fields in the atmosphere and Earth and those found in living organisms, including humans.***

The study's findings may change established notions about [electrical activity](#) in [living organisms](#), paving the way for revolutionary, new medical treatments including thought amplification. Illnesses such as epilepsy and Parkinson's are related to abnormalities in the electrical activity of the body.

"We show that the electrical activity in many living [organisms](#)—from zooplankton in the oceans, to sharks and even in our brains—is very similar to the [electrical fields](#) we measure and study in the atmosphere from global lightning activity," explains Prof. Colin Price of TAU's Porter School of the Environment and Earth Sciences, who led the research for the study, published in the *International Journal of Biometeorology* on February 8.

Colleagues from the Massachusetts Institute of Technology and the University of Alaska also contributed to the study and confirmed the results. Your research group is encouraged to perform the study and prove the discovery for yourselves.

"We hypothesize that over evolutionary timescales living organisms adapted and evolved to actually use the electricity in the environment—global lightning," Prof. Price continues. "This has likely not changed over billions of years and is similar to the evolution of our eyes, which evolved using the sunlight nature gave us."

As living organisms evolved over billions of years, the natural electromagnetic resonant frequencies in the atmosphere, continuously generated by global electrical activity, provided the background electric fields for the development of cellular electrical activity. The research found that, in some animals, the electrical spectrum is difficult to differentiate from the background atmospheric electric field produced by lightning.

"Neither biologists nor doctors can explain why the frequencies in living organisms (0-50 Hz) are similar to those in the atmosphere caused by lightning," adds Prof. Price. "Most of them are not even aware of the similarity we presented in our paper."

"Our review of previous studies revealed that lightning and ambient energy-related fields may have positive medical applications related to our biological clock ([circadian rhythms](#)), [spinal cord injuries](#) and maybe other bodily functions related to electrical activity in our bodies," says Prof. Price. "The connection between the ever-present electromagnetic fields, between lightning in the atmosphere and human health, may have huge implications in the future for various treatments related to electrical abnormalities in our bodies."

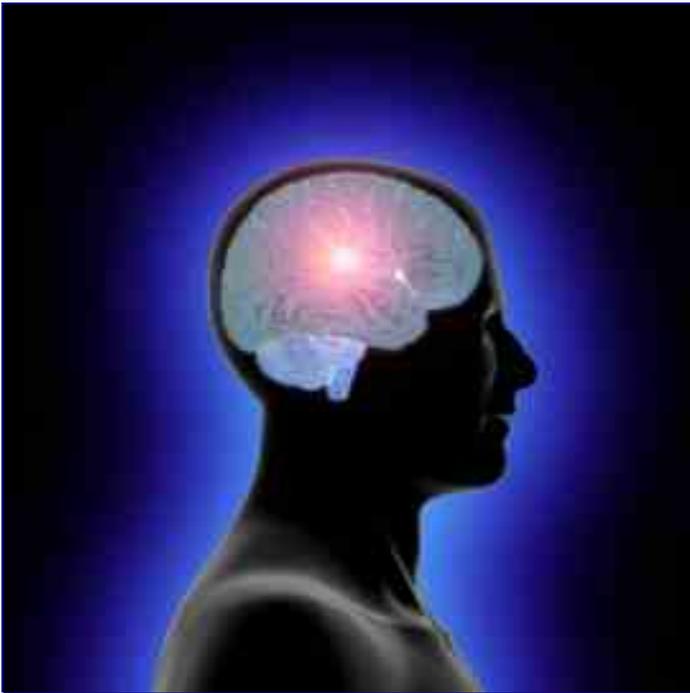
The study comprised a retrospective review of previous studies on the link between lightning-related fields in the atmosphere and human and animal health. "We collected many different studies over the years to build a clear picture of this link," concludes Prof. Price. "Going forward, we need to design

new experiments to see how these extremely low frequency fields from lightning may impact living organisms, and to investigate how these fields can be used to benefit us. One experiment shows how these fields may impact the rate of photosynthesis in plants. The greater examinations demonstrate the ability of the electricity in your own body to alter the process of things in the world.

## Brain Electricity and the Mind

Science proves that your brain can use metaphysical concepts to actually do magical things

Your brain has been proven to make and manipulate electricity. Your heart and other parts of you do this too. Here is how it works:



When the topic is color a group of neurons oscillate with synchronous beta waves between two brain regions.

When the content changes from color to orientation a different group of neurons have the same synchronous beta waves between two other regions.

[In this experiment](#) it appears that synchronous waves are communicating information between two distinct brain regions with two different sets of neurons oscillating together at a specific frequency.

The two major theories of how the brain generates the mind are the neuronal connections where electrical signals travel along axons triggering a chemical connection at another neuron's dendrite ([see post Connectome](#)) and electrical brain waves, which oscillate together at specific frequencies ([see post Brain Oscillations](#)). Both of these mechanisms occur simultaneously, so, perhaps they are complementary and perform different functions. [Another theory of mind](#) is that it consists of

information, possibly in the form of electromagnetic energy, which would encompass all forms of electricity in the brain.



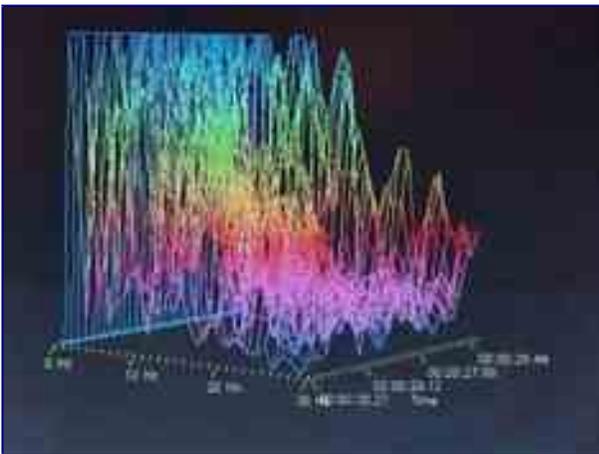
Perhaps the neuronal synaptic connections are involved in computation by summing the inputs in the network of connections arriving at the dendrite. Perhaps the oscillating brain waves are binding together information from specific regions.

Both utilize electricity in different ways. In fact, there are many different sources of electricity in the brain.

If consciousness in nature, and the human brain, is in the form of information, electromagnetic or otherwise, it is not clear yet how this could work.

Where does brain electricity come from and what does it mean?

## **Measuring Electricity in the Brain**



Current methods of measuring electricity in the brain utilize probes either on the scalp (the least intrusive method), below the skull coverings such as the Dura at the edge of the brain, and deep inside the brain. None of these measure individual neurons (which takes very advanced research techniques and is not generally practical), but rather account for the electricity in an entire brain region.

Recording from the scalp is called EEG, or electroencephalogram.

Recording below the Dura, one of the three covers of the brain, is called ECoG, the electrocorticogram.

Measuring deep inside the brain with tiny electrodes deep is called intracranial EEG.

Measuring a magnetic field is called the magnetoencephalogram or MEG.

What is not generally known is that electrical measurements in a region do not measure a specific detail, event or component. All of these devices measure total voltage at specific points in a region, the addition of all electric potentials.

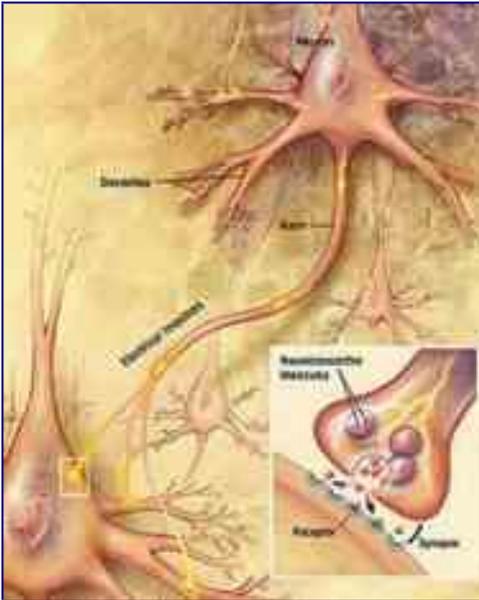
It is popularly thought that the major electricity in the brain consists of neurons' electric signals along axons to the synapse to another neuron. This electrical signal, called the "action potential" travels along the axon and usually triggers the delivery of a neurotransmitter to another neuron. Occasionally this signal sends a more direct electrical signal through a "gap (electrical) junction," to another neuron. The triggered neurotransmitter signals become part of a computation of all the signals landing on one dendrite from many different neurons. The summation of all of these signals on the dendrite of a postsynaptic neuron determines whether the next neuron will send a signal or not.

**But, in fact, there are many other sources of electricity in the extra cellular space around the neuron.**

First we discuss the well-known action potential, then the less understood electricity in the extracellular medium, which arises from many sources.

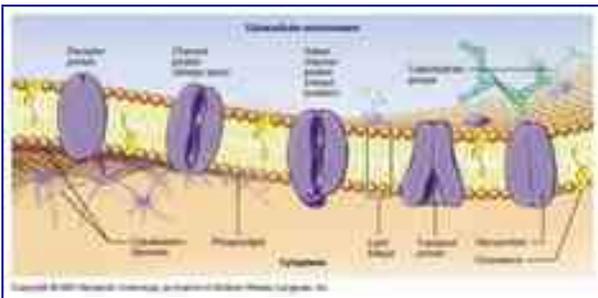
## **The Best Known Electrical Event – The Neuron's Action Potential**

**All animal cells maintain a small electric charge with more negative charge on the inside of the cells. In most cells this doesn't change. In the neuron there is a dramatic change when the neuron fires.**



**The action potential, sometimes called a spike, is a brief electrical signal, or current, that occurs in neurons, muscle, endocrine, and plant cells (a version can also occur in a bacteria to send a signal to the cilia to move). This is often referred to as the neuron “firing”.**

Embedded in the membrane of the neuron there are a series of protein channels that allow small charged sodium and potassium ions to travel in and out in an orchestrated pattern down the length of the entire axon (which in the foot can be over a foot long). This occurs by the protein channel slightly changing shape. When a certain threshold is reached (usually 15 milli volts above the 70 mini volt resting state) then an all-or-nothing action potential is triggered that will travel the length of the axon.



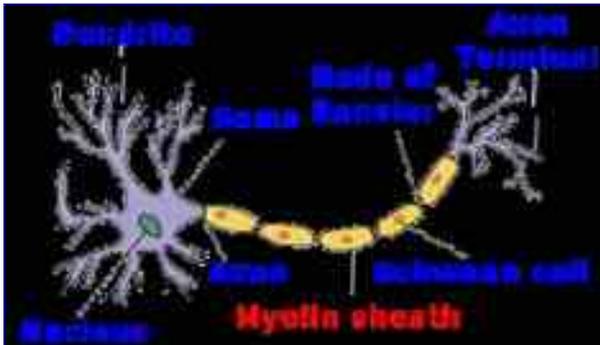
**The charge travels along the axon “wire” by the coordinated changing of ion channels.** By allowing more positively charged sodium ions through the membrane into the cell, these channels create an electrical charge, a voltage, when comparing the inside and outside of the membrane. The ion channels open one at a time along the length of the axon so the voltage moves from point to point all the way along the axon. Soon after the sodium comes into the cell, another channel opens to send potassium ions out to neutralize the charge. Then they gradually go back to the resting state.

**The axon, the dendrites, and the cell bodies all have different electrical properties of their ion channels.** Some areas can transmit action potentials, others cannot. The beginning of the axon, the axon hillock, is the most excitable. The cell body and axon are also quite excitable. Many neurons

routinely spike at a specific frequency of 10 or 100 times per second, and then increase this amount with a given signal.

**After the firing, which is referred to as hyperpolarization, there is an inactivated state, called the refractory period or “after hyperpolarization.” Another action potential cannot occur until this refractory period ends.**

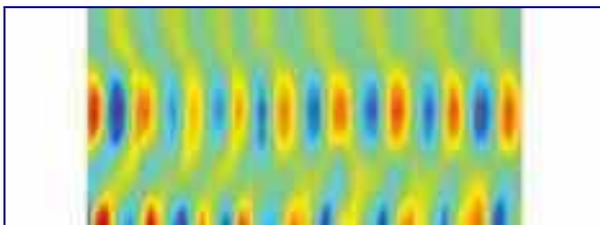
**The same action potential mechanism also occurs with calcium channels in other regions of the neuron.** But, the calcium channel signal lasts much longer, 100 milliseconds for calcium compared to 1 millisecond for the sodium action potential.



**There is one other very important factor in propagation of electrical signals – myelin.** Myelin is a fatty substance that is secreted and maintained by a glia cell along many of the axons (Schwann cells in the peripheral nervous system and oligodendrocytes in the center nervous system). The sections of the axon that are myelinated do not have an electric potential; they are insulated by the myelin. There are breaks in the myelin at regular intervals, nodes of Ranvier, that are electrically excitable, like mini axon hillocks, and the electrical signals jump between these nodes travelling much faster than they would along an unmyelinated axon.

## Local Field Potential – LFP

A different important measurement of electricity in the brain is [the Local Field Potential or LFP.](#)



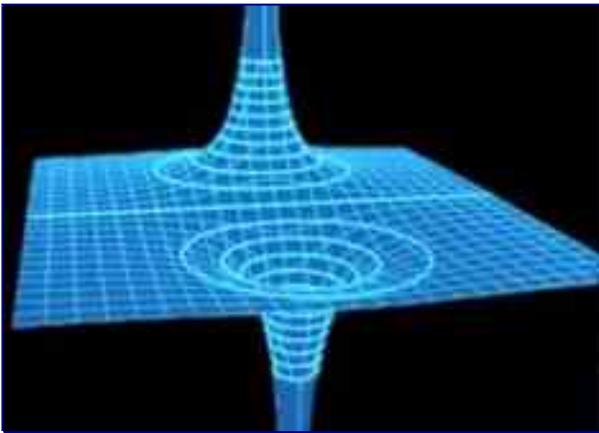
**The LFP is the sum of all electrical gradients in a region of the extracellular medium, the space between the cells, filtered to avoid dominance by any one spike.** An electrode that measures the voltage or electrical potential gradient measures it far enough away from any particular neuron to avoid one neuron dominating the result. It is thought that the LFP represents the synchronized input in the region, the sustained currents in the region from the soma and dendrite, rather than one specific spike output. The LFP is basically about the behavior of the entire group of neurons in the region.

It is not widely appreciated that if all the electrical events add together to form the electrical gradient at that moment, then the longer an event lasts the more opportunity it has to add to other signals. A very brief signal has to be very large to be measured in this process. Many small signals that last a long time will add together into a bigger voltage. This has been shown by the fact that a very small transcranial stimulation current can have a major effect after a while. A small brief signal without other signals at that millisecond will not add to anything else and therefore will be missed.

It was mentioned that the calcium action potential, or spike, is 100 times longer than the sodium.

Because of this, the calcium spikes have 100 times more opportunity to add to other local events. Also, the long calcium spike can also be a trigger for multiple sodium action potentials where the sodium electrical signal will last a long time also.

Because of the complexity of the factors noted below determining the LFP, large events can be caused by the summation of many different events. An example is a theta rhythm in the hippocampus versus the neo-cortex, which might be assigned a specific cause, but in fact can be caused by multiple different very small events in the region.

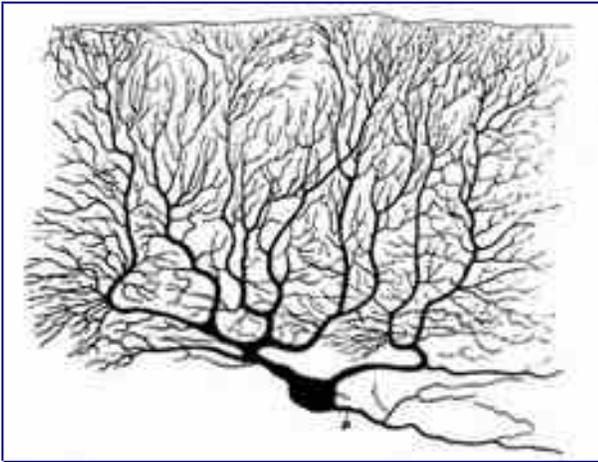


All electrical currents in a section of the brain combine to form the voltage potential that is the sum of all the activity. This activity is different at each point and forms what is called an “electrical field.” The electrodes measure this field in the range of milliseconds.

Any membrane, on dendrites, spines, soma (the cell center), axon and axon terminals, has an electrical gradient and contributes to the current in the extracellular medium. Glia cells often have slow moving gradients that contribute as well. In order for a small gradient to become measurable it has to be slow so that it will add with other gradients.

## **Synapse Activity Contributes to Extracellular Electric Fields**

[Synapses contribute much of the electric gradients in the LFP.](#)



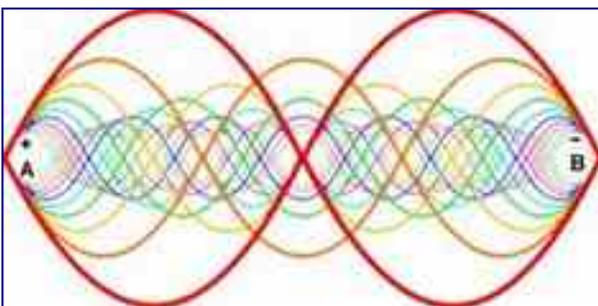
**The dendrites are in the form of a large tree with thousands of branches with a membrane that is an insulator, unlike the axon where the electric current travels on the membrane.** The large amounts of dendrite connections form a current inside the neuron membrane consisting of tens of thousands of synapses.

An example is the excitatory glutamate receptors where sodium and calcium ions flow inward. This creates a low level of these ions in the extracellular space

Inhibitory GABA neurons add a different type of current.

There are other channels in the membrane that are not related to the synapse action. Intrinsic currents, called  $I_h$  currents, occur by the action of other gated channels in the membrane (induced when the membrane is de-inactivated ) and  $I_t$  currents, induced by hyperpolarization of calcium currents triggering burst firing.

## Resonance Factors in LFP

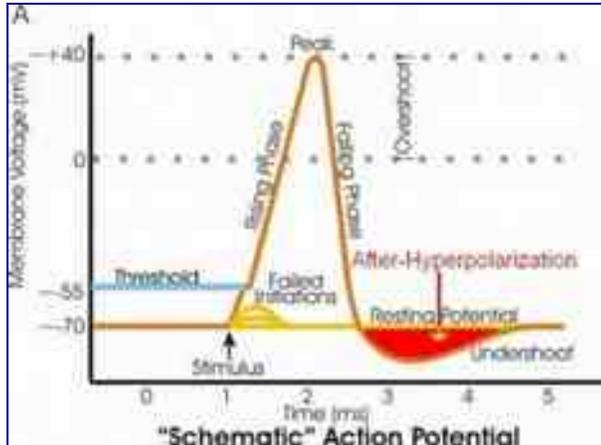


**Several different types of neurons' membranes respond to specific frequencies more than others.** When this resonance frequency occurs it can cause much larger waves and it can trigger a continuation of the oscillations.

Theta resonance has been described in some cortex regions. In contrast some inhibitory neurons have been noted to have a resonance in the 30 to 90 ranges.

These resonance effects are influenced by the size of the triggers and the specific frequencies. To be large enough to influence the ECF potentials the same resonance has to occur in multiple nearby neurons.

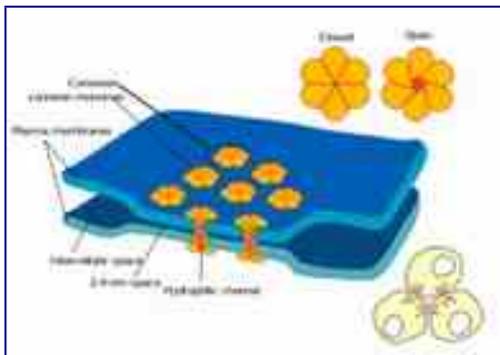
## After-Hyperpolarization Currents



When an action potential occurs (the neuron “firing”) the electrical gradient of the membrane is called “hyperpolarized”. Hyperpolarization can be triggered by different ions such as calcium.

A factor related to calcium induced hyperpolarization involves the phenomenon of bursts of fast spikes and dendrite spikes. The electrical contribution of these bursts of spikes can be as great as synaptic events. These events can also occur in a coordinated fashion and can occur in greater amount when the brain is surprised by an unusual stimulus.

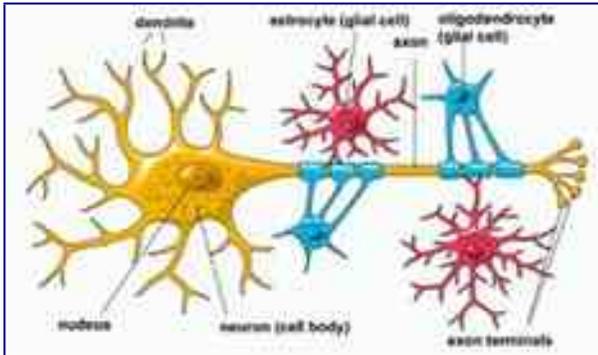
## Electrical Gap Junctions – Electric Synapses



A gap junction is an electrical synapse, which is very small 3 nanometers (synapses that use neurotransmitters usually are 20 to 40 nanometers) and is very fast and often bidirectional. These synapses don’t amplify the signal the way other synapses may do with addition of multiple inputs. With the very rapid response these are often in rapid loops for rapidly needed defensive measures.

Electrical synapses can be involved in triggering synchronous waves and can cause increase in the currents of the extracellular medium, the LFP.

## Glia

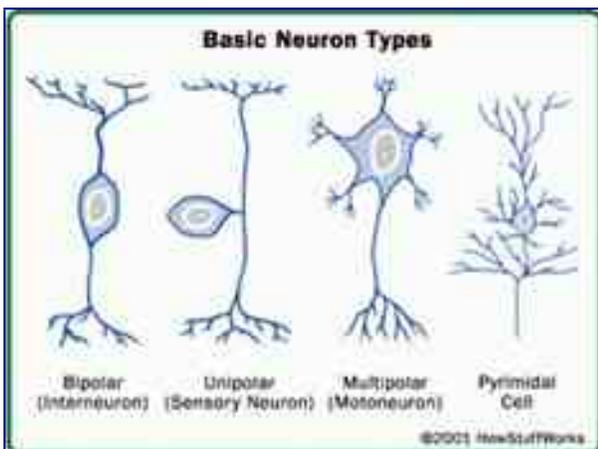


**The complexities of the glia are just beginning to be appreciated.** Other posts have described how glia are involved in monitoring the use and pruning of synapses. They are now known to provide many neurotransmitters to synapses as well. Activity in glia have major contribution to the electrical currents in the LFP.

## Ephaptic Effects

Ephaptic coupling is a form of communication in the nervous system that is different from axon potentials and from electric gap junctions. It includes different ways that neurons may communicate including either very close physical contact of two neurons, or it may be an extracellular field effect that connects two neurons. It can have great influence on either action potentials or the LFP. It is one of the many unknown but important aspects of the electrical influences in the brain.

## Neuronal Geometry is Critical LFP Factor



**The most important factors in determining the extracellular field are the shape of the neurons and the rhythmic synchronized firing.**

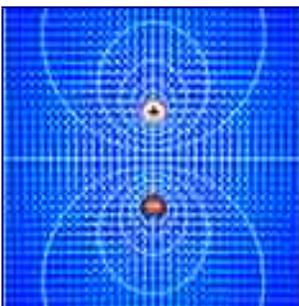
**The shapes of the neurons effect the electrical contribution to the field.** The most common cell in the cortex is the pyramidal cell with long, very thick dendrites that create strong dipoles causing a flow of ions in the extracellular space. Also, they are arranged in parallel columns with outputs at 90 degree angles, which causes these dipoles to be additive. Other animals have different amounts of this type of cell, different sized cells, and different angles that change the electrical properties. For example, the mouse LFP patterns have greater voltage than the rat.



Circular symmetrical neurons that connect the thalamus and cortex have many dendrites of equal size in all direction. These create an isolated charge that is not additive.

**The folding of the cortical gyrus create different electrical effects.** On the concave side a gyrus pushes dendrites together. This curve effect on electrical function is dramatic in the hippocampus dentate nucleus.

The inhibitory neurons can create different electrical events such as gradients between a soma and dendrite in a particular neuron, and “inhibitory dipole.” For example, exciting a dendrite and inhibiting a soma cause the same electrical event and can therefore add together in the extracellular space.



This can be confusing because a strong inhibition can create extracellular voltage but eliminate a strong firing of action potential decreasing the voltage. **So, the LFP and spiking behavior can be very different even in a very small region. As mentioned in a previous post ([the Connecome](#)) the fMRI measures blood oxygen not electricity. Therefore, LFP in the gamma range can effect spiking and effect the interpretation of the fMRI.**

## Temporal Factors Critical in LFP

**As well as architecture, an important factor in creating the LFP is the timing of firing.**

If only geometric facts would be important then the cerebellum, with very ordered large Purkinje neurons, should have large LFP. But, most activity in cerebellum is local computation with small voltage. In circumstances where the cerebellum participates in synchronous activity then LFP can be much greater.



**The timing of the firing is very important in how long the voltage will add to other signals creating a larger voltage.** For example, a slow frequency oscillation can influence a faster oscillation through a form of resonance called “phase-amplitude coupling.”

The specific local qualities of the extra cellular medium have effects on the conductance and transmission as well. Because of the complexity of the LFP a simple comparison of gradients across membranes of neurons does not give much information.

## Electricity in The Brain and Mind

**[A previous post](#) has discussed the research that supports the notion that synchronous brain waves appear to correlate with mental states. Neuronal action potentials clearly are involved in a process of signaling information throughout the brain that are related to mental states. Now, there is reason to believe that background, general inter cellular electric gradients can also be correlated with mental states.**

Electrical currents include synapse effects, calcium spikes, action potentials, and the after potential of the spike. Most importantly, the specific neuronal architecture and the rhythmic timing affect these currents. Gamma rhythms can trigger other regions to oscillate and fire. Currents are affected by slower background rhythms throughout the brain. Because of the additive effects of longer events, small effects on the currents can have major effects. The general electrical background can affect individual spiking neurons through all the effects mentioned.

**Although very difficult to obtain, a large amount of data about LFPs from the entire brain could produce a considerable amount of information about thought. In support of this, certain cognitive tasks correlate with specific types of LFP's in various brain regions.**

**How these currents throughout the brain are related to the computation effects of the spikes between neurons, and the synchronized oscillations of groups of neurons between regions is not known.**



**How does this all relate to the mind? It does appear that when different types of thought occurs, there are synchronized oscillations of groups of neurons between regions. Information for some type of mental computation is relayed throughout the brain by electrical signals and synapses. Also, specific cognitive events have specific patterns of electrical fields in the extracellular regions from the multiple sources discussed here.**

**It is tempting to consider mind in the universe as a form of information, possibly electromagnetic energy. There appear to be many different complex types of electrical events in the brain that correlate with mental activity.**

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## **Is This The Fabled “Mind-Over-Matter”?**

Per [https://enigmose.com/quantum\\_consciousness.html](https://enigmose.com/quantum_consciousness.html) , Consciousness Affects the Physical World. Quantum entanglement is a phenomena whereby two subatomic particles are 'entangled' and ones actions will influence the others instantaneously, regardless of the distance between the two. Taking quantum entanglement a step further there lies a truly bizarre supposition of quantum theory that states the very act of observing affects the observed reality. It's mind over matter squared. Some unknown force linked to consciousness seems to have an effect on subatomic particles.

Nay Sayers clinging to classical physics will and have argued that the 'observer effect' is the result of instruments that, by necessity, alter the state of what they measure in some way. The "observer" in the Weizmann experiment was not a conscious being, but an electronic detector which tends to throw some

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cold water on the theory that a conscious mind directly affected reality. However, be it a conscious mind or a machine, nobody is able to explain how observation, be it via Artificial Intelligence or actual sentient human intellect can alter the motion of subatomic particles.

Multiple experiments using various equipment and different sentient observers have persistently produced similar results.

Researchers at the Weizmann Institute of Science conducted an experiment demonstrating how a beam of electrons are affected by the act of observation. The researchers concluded that the more "watching," the greater the influence on the electrons.

When watching Quantum activity the particles can also behave as waves. This can be true for electrons, at distances measuring less than one thousandth of a millimeter. When behaving as waves, they can simultaneously pass through openings in a barrier and then meet again at the other side of the barrier, this is referred to as interference. Much like Mexicans dashing across the US border. The Mexicans when observed by shall we say the border patrol will most definitely behave in a different manner than if no border patrol was present. The border patrol becomes 'interference'.

In stark contrast however, with quantum particles interference can only occur if no-one is watching. Once an observer sees the particles going through the openings, the particles behavior is altered. Which seems to imply, in contradiction of Newtonian physics, that consciousness affects the physical world.

The Bell Theorem, produced by Irish physicist John Stewart Bell is another example where the results tend to imply that consciousness somehow affects matter.

Bell's theorem highlighted a critical distinction between quantum physics or quantum mechanics and Newtonian or classical mechanics, particularly concerning quantum entanglement. The great Genius of the 20th Century and father of relativity, Albert Einstein referred to the 'scary' aspects of quantum entanglement as "spooky action at a distance".

Basically bells theorem states that two or more particles in a quantum state will continue to be mutually dependent, even at vast physical separations. So if one particle is at our north pole and the other at our south pole they are still co dependent and the geographic spacial separation between them is irrelevant even if the particles are separated by a quintillian light years [theoretically].

Photons are simple subatomic particles. Photons will spin in all directions at once, why ? ... spooky action. It is possible to split a single photon into two by shining a light through the proper medium, and at that point, you'll have two photons once they pass through the medium. Once you measure either of those two particles, something 'spooky' happens... they both fall out of waveform simultaneously and instantaneously which can't be explained by classical mechanics.

Assuming that the original photon had a spin value of zero. Once you divide it in two they will spin in opposing directions which in effect maintains the neutral state of zero. If you reverse the spin of either photon, the other will also reverse - instantaneously, even though the two may be seperated by vast distances.

The paradox in this is that this spin change happens instantaneously. Somehow the one photon 'knows' that it must change its spin or cease to exist under the laws of quantum physics, some unknown force relayed this information to photon b. Information had to be transferred somehow, either through waves, light, energy or some other unknown 'spooky' force. The two photons which were once one photon are somehow linked. Changing one instantaneously changes the other, regardless of the distances they are separated by. This inexplicable phenomena came to be known as Quantum entanglement.

The concept of Quantum entanglement has been freaking out scientists for decades, because it breaks one of the most fundamental laws of the universe. The information transfer between the two particles, under the laws of classical mechanics cannot occur faster than the speed of light, but it violates the speed limit every time and gets away with it - imagine that.

'Because numerous experiments agree with the predictions of quantum mechanical theory, and show differences between correlations that could not be explained by local hidden variables, the experimental results have been taken by many as refuting the concept of local realism as an explanation of the physical phenomena under test. For a hidden variable theory, if Bell's conditions are correct, the results that agree with quantum mechanical theory appear to indicate superluminal (faster-than-light) effects, in contradiction to the principle of locality.' - Wikipedia

***Quantum entanglement is a concept so counter-intuitive that Albert Einstein called “spooky” — and it may be even spookier than he thought.***

Colin Hunter at the Perimeter Institute says that new research by Perimeter Institute physicist [Lucien Hardy](#) proposes a way to potentially test whether entanglement could be affected by human consciousness.

For decades, an experiment called the Bell test has confirmed what Einstein described as “spooky action at a distance,” in which the state of one particle seems to instantly determine the state of its entangled partner, regardless of the distance separating them.

Some physicists have suggested that the correlations could be affected by something outside of the known physical world, such as a hitherto unknown force of consciousness. Hardy has proposed a test for this idea, involving roughly 100 people separated by 100 kilometres, all wearing EEG headsets to monitor their brainwaves.

“[If] you only saw a violation of quantum theory when you had systems that might be regarded as conscious, humans or other animals, that would certainly be exciting,” Hardy [told New Scientist](#).

Read the full [New Scientist article](#), and Hardy’s paper on [arXiv](#).

# Spooky Quantum Entanglement Created in Everyday Objects

The weird behavior physicists call quantum entanglement happens when two particles become mysteriously linked, so that affecting one automatically affects the other, even if it's far away. Now scientists have witnessed it in everyday objects under normal conditions, blurring the quantum and classical worlds.

By Stephanie Warren For Popular Mechanics

Quantum entanglement is one of those strange facets of quantum mechanics that produces baffling behaviors in objects at the quantum level, but isn't easy to find in our everyday world that appears to be governed by good old-fashioned classical physics. Yet, according to quantum theory, even objects in our everyday macro-size world should have this property. And in a new study in today's edition of the journal *Science*, researchers have shown that they could entangle diamond crystals, the first time entanglement has been shown in objects under real-life conditions.

Quantum entanglement happens when two particles, such as photons or electrons, interact and become linked. Even when the particles are moved miles apart, the molecules' mechanical states (such as their spin, momentum, and polarization) remain mysteriously coupled. If the state of one entangled particle is changed, its faraway twin will be instantaneously affected. It's a bizarre property Einstein famously called "spooky action at a distance."

This spooky property of matter has a powerful effect on the outcome of events in the quantum world. "In the classical world, chance outcomes have no strange correlations—the events at one roulette wheel in a casino have no effect on events at the other tables," says physicist Luming Duan from the University of Michigan, in a separate article in *Science*. But "in a quantum casino, we could imagine that roulette wheels are entangled, so that if one ball dropped on a black number, the ball at the next table must drop on red." Another strange thing about entanglement: The information seems to travel faster than light between the two objects, breaking the universe's apparent speed limit.

Scientists have been able to entangle particles in the lab before, but only under special conditions, by isolating them and cooling them to ultra-low temperatures. "What we did was to demonstrate that you could make these wacky states in these everyday normal objects sitting in a regular laboratory under no particularly special conditions," study author Ian Walmsley says. To do this, his team used a laser to start the crystals of a millimeter-size diamond vibrating. The vibrations were reflected in the diamond's entangled twin a few centimeters away. The researchers used ultra-fast optical technology to create and measure the entangled state before it broke up.

It was this fast detection that made the diamond entanglement experiment possible. Most physicists, Walmsley says, believe that quantum entanglement is a property present in all objects in our macro world; we just don't see it happening. "In the everyday environment, objects are connected to other objects," he says. "They're sitting on the floor, wafting in the wind, and those connections are ways in which information and energy can leak out of one system into another." So objects lose their entanglement quickly. By using super-speedy technology, this team caught the diamonds acting entangled before environmental interactions overcame the effect.

Walmsley says that future experiments will focus on getting the quantum interactions to hang on longer, and in bigger objects. The bigger the objects gets, the harder it is to home in on quantum interactions. But, he says, to put quantum entanglement to technological use, it has to be done.

One dream is to use quantum entanglement to create super-powerful quantum computers. Quantum computing would use a new fundamental design based on the properties of quantum mechanics, which would basically allow these computers to "explore a great number of options simultaneously in a very efficient way," Walmsley says. But because a computer is a hefty, macroscopic thing, to build a practical quantum computer, scientists will have to create entanglement on a much bigger scale. Nick Herbert further verifies these event concepts at <http://quantumtantra.com/entangle.html>

## The Satellite Test That Proved The Distance

In a landmark study, a team of Chinese scientists using an experimental satellite has tested quantum entanglement over unprecedented distances, beaming entangled pairs of photons to three ground stations across China—each separated by more than 1,200 kilometers. The test verifies a mysterious and long-held tenet of quantum theory, and firmly establishes China as the front-runner in a burgeoning “quantum space race” to create a secure, quantum-based global communications network—that is, a potentially unhackable “quantum internet” that would be of immense geopolitical importance. The findings were published.

“China has taken the leadership in quantum communication,” says Nicolas Gisin, a physicist at the University of Geneva who was not involved in the study. “This demonstrates that global quantum communication is possible and will be achieved in the near future.”

The concept of quantum communications is considered the gold standard for security, in part because any compromising surveillance leaves its imprint on the transmission. Conventional encrypted messages require secret keys to decrypt, but those keys are vulnerable to eavesdropping as they are sent out into the ether. In quantum communications, however, these keys can be encoded in various quantum states of entangled photons—such as their polarization—and these states will be unavoidably altered if a message is intercepted by eavesdroppers. Ground-based quantum communications typically send entangled photon pairs via fiber-optic cables or open air. But collisions with ordinary atoms along

the way disrupt the photons' delicate quantum states, limiting transmission distances to a few hundred kilometers. Sophisticated devices called "quantum repeaters"—equipped with "quantum memory" modules—could in principle be daisy-chained together to receive, store and retransmit the quantum keys across longer distances, but this task is so complex and difficult that such systems remain largely theoretical.

"A quantum repeater has to receive photons from two different places, then store them in quantum memory, then interfere them directly with each other" before sending further signals along a network, says Paul Kwiat, a physicist at the University of Illinois in Urbana-Champaign who is unaffiliated with the Chinese team. "But in order to do all that, you have to know you've stored them without actually measuring them." The situation, Kwiat says, is a bit like knowing what you have received in the mail without looking in your mailbox or opening the package inside. "You can shake the package—but that's difficult to do if what you're receiving is just photons. You want to make sure you've received them but you don't want to absorb them. In principle it's possible—no question—but it's very hard to do."

To form a globe-girdling secure quantum communications network, then, the only available solution is to beam quantum keys through the vacuum of space then distribute them across tens to hundreds of kilometers using ground-based nodes. [Launched](#) into low Earth orbit in 2016 and named after an ancient Chinese philosopher, the 600-kilogram "Micius" satellite is China's premiere effort to do just that, and is only the first of a fleet the nation plans as part of its \$100-million Quantum Experiments at Space Scale (QUESS) program.

Micius carries in its heart an assemblage of crystals and lasers that generates entangled photon pairs then splits and transmits them on separate beams to ground stations in its line-of-sight on Earth. For the latest test, the three receiving stations were located in the cities of Delingha and Ürümqi—both on the Tibetan Plateau—as well as in the city of Lijiang in China's far southwest. At 1,203 kilometers, the geographical distance between Delingha and Lijiang is the record-setting stretch over which the entangled photon pairs were transmitted.

For now the system remains mostly a proof of concept, because the current reported data transmission rate between Micius and its receiving stations is too low to sustain practical quantum communications. Of the roughly six million entangled pairs that Micius's crystalline core produced during each second of transmission, only about one pair per second reached the ground-based detectors after the beams weakened as they passed through Earth's atmosphere and each receiving station's light-gathering telescopes. Team leader Jian-Wei Pan—a physicist at the University of Science and Technology of China in Hefei who has pushed and planned for the experiment since 2003—compares the feat with detecting a single photon from a lone match struck by someone standing on the moon. Even so, he says, Micius's transmission of entangled photon pairs is "a trillion times more efficient than using the best telecommunication fibers. ... We have done something that was absolutely impossible without the satellite." Within the next five years, Pan says, QUESS will launch more practical quantum communications satellites.

Although Pan and his team plan for Micius and its nascent network of sister satellites to eventually distribute quantum keys, their initial demonstration instead aimed to achieve a simpler task: proving Einstein wrong.

Einstein famously derided as “spooky action at a distance” one of the most bizarre elements of quantum theory—the way that measuring one member of an entangled pair of particles seems to instantaneously change the state of its counterpart, even if that counterpart particle is on the other side of the galaxy. This was abhorrent to Einstein, because it suggests information might be transmitted between the particles faster than light, breaking the universal speed limit set by his theory of special relativity. Instead, he and others posited, perhaps the entangled particles somehow shared “hidden variables” that are inaccessible to experiment but would determine the particles’ subsequent behavior when measured. In 1964 the physicist John Bell devised a way to test Einstein’s idea, calculating a limit that physicists could statistically measure for how much hidden variables could possibly correlate with the behavior of entangled particles. If experiments showed this limit to be exceeded, then Einstein’s idea of hidden variables would be incorrect.

Ever since the 1970s “Bell tests” by physicists across ever-larger swaths of spacetime have shown that Einstein was indeed mistaken, and that entangled particles do in fact surpass Bell’s strict limits. The most definitive test arguably occurred in the Netherlands in 2015, when a team at Delft University of Technology [closed several potential “loopholes”](#) that had plagued past experiments and offered slim-but-significant opportunities for the influence of hidden variables to slip through. That test, though, involved separating entangled particles by scarcely more than a kilometer. With Micius’s transmission of entangled photons between widely separated ground stations, Pan’s team has now performed a Bell test at distances a thousand times greater. Just as before, their results confirm that Einstein was wrong. The quantum realm remains a spooky place—although no one yet understands why.

“Of course, no one who accepts quantum mechanics could possibly doubt that entanglement can be created over that distance—or over any distance—but it’s still nice to see it made concrete,” says Scott Aaronson, a physicist at The University of Texas at Austin. “Nothing we knew suggested this goal was unachievable. The significance of this news is not that it was unexpected or that it overturns anything previously believed, but simply that it’s a satisfying culmination of years of hard work.”

That work largely [began](#) in the 1990s when Pan, leader of the Chinese team, was a graduate student in the lab of the physicist Anton Zeilinger at the University of Innsbruck in Austria. Zeilinger was Pan’s PhD adviser, and they collaborated closely to test and further develop ideas for quantum communication. Pan returned to China to start his own lab in 2001, and Zeilinger started one as well at the Austrian Academy of Sciences in Vienna. For the next seven years they would compete fiercely to break records for transmitting entangled photon pairs across ever-wider gaps, and in ever-more extreme conditions, in ground-based experiments. All the while each man lobbied his respective nation’s space agency to green-light a satellite that could be used to test the technique from space. But Zeilinger’s proposals perished in a bureaucratic swamp at the European Space Agency whereas Pan’s were quickly embraced by the China National Space Administration. Ultimately, Zeilinger chose to collaborate again with his old pupil rather than compete against him; today the Austrian Academy of Sciences is a partner

in QUESS, and the project has plans to use Micius to perform an intercontinental quantum key distribution experiment between ground stations in Vienna and Beijing.

“I am happy that the Micius works so well,” Zeilinger says. “But one has to realize that it is a missed opportunity for Europe and others, too.”

For years now, other researchers and institutions have been scrambling to catch up, pushing governments for more funding for further experiments on the ground and in space—and many of them see Micius’s success as the catalytic event they have been waiting for. “This is a major milestone, because if we are ever to have a quantum internet in the future, we will need to send entanglement over these sorts of long distances,” says Thomas Jennewein, a physicist at the University of Waterloo in Canada who was not involved with the study. “This research is groundbreaking for all of us in the community—everyone can point to it and say, ‘see, it does work!’”

Jennewein and his collaborators are pursuing a space-based approach from the ground up, partnering with the Canadian Space Agency to plan a smaller, simpler satellite that could launch as soon as five years from now to act as a “universal receiver” and redistribute entangled photons beamed up from ground stations. At the National University of Singapore, an international collaboration led by the physicist Alexander Ling has already launched cheap shoe box–size CubeSats to create, study and perhaps even transmit photon pairs that are “correlated”—a situation just shy of full entanglement. And in the U.S., Kwiat at the University of Illinois is using NASA funding to develop a device that could someday test quantum communications using “hyperentanglement” (the simultaneous entanglement of photon pairs in multiple ways) onboard the International Space Station.

Perhaps most significantly, a team led by Gerd Leuchs and Christoph Marquardt at the Max Planck Institute for the Science of Light in Germany is developing quantum communications protocols for commercially available laser systems already in space onboard the European Copernicus and SpaceDataHighway satellites. Using one of these systems, the team successfully encoded and sent simple quantum states to ground stations using photons beamed from a satellite in geostationary orbit, some 38,000 kilometers above Earth. This approach, Marquardt explains, does not rely on entanglement and is very different from that of QUESS—but it could, with minimal upgrades, nonetheless be used to distribute quantum keys for secure communications in as little as five years. Their results appear in [\*Optica\*](#).

“Our purpose is really to find a shortcut into making things like quantum key distribution with satellites economically viable and employable, pretty fast and soon,” Marquardt says. “[Engineers] invested 20 years of hard work making these systems, so it’s easier to upgrade them than to design everything from scratch. ... It is a very good advantage if you can rely on something that is already qualified in space, because space qualification is very complicated. It usually takes five to 10 years just to develop that.”

Marquardt and others suspect, however, that this field could be much further advanced than has been publicly acknowledged, with developments possibly hidden behind veils of official secrecy in the U.S. and elsewhere. It may be that the era of quantum communication is already upon us. “Some colleague of mine made the joke, ‘the silence of the U.S. is very loud,’” Marquardt says. “They had some very

good groups concerning free-space satellites and quantum key distribution at Los Alamos [National Laboratory] and other places, and suddenly they stopped publishing. So we always say there are two reasons that they stopped publishing: either it didn't work, or it worked really well!

## **So, is Quantum Entanglement the Same Thing As MAGIC?**

Your brain produces and manipulates electric energy! You can spend 30 years on yoga and brain-training exercises to try to gain a small portion of the control of that power but...why wait? You can be "X-Men"-like turbo powered today!

Brain-to-computer interfaces are absolute bullshit and they are already being used in the most socially destructive means possible. Black-and-white computer logic and organic human fuzzy logic will never get along. Every intelligence industry "big data" spy project sold to the CIA by Google has failed spectacularly and caused the biggest intelligence failures in centuries. Sociopath frat boy billionaires are trying to be immortal on the internet or connect us all on the The Matrix. Every one of their projects has exemplified the delusional narcissism of Stanford tunnel-visioned elitism. While "A.I." is a great catch phrase for investor pitches, AI is an utter failure in reality. Computers can't understand human process, they can only fake it for a few months before the fuzzy degradation anomalies appear and prove it all wrong. There is a way, though, to connect minds without using computers!

Modern devices are being developed to ORGANICALLY amplify the Quantum Energy manipulation that your brain already undertakes. These devices work, some-what, like a radio amplifier amplifies the sound for your stereo.

One has to wonder if the core of the person just unplugs and goes out exploring after the body dies. Is the soul individual? Or a group? Is soul the same as consciousness? Is the matrix? the web? Can the mind move time, objects, ideas, reality, place (via teleport)? Are "ghosts" just people stuck half-way through the unplugging?

We all want to actually see people move time, objects, ideas, reality, place, politics, social process...today, right in front of other people. We all want to see it go from theory and TED lectures to physical reality that we can all watch happen right before us.

While CERN Switzerland has had to spend tens of billions of dollars on shiny hardware to try to accomplish these things, each person may already have everything they need to do "super-powers" right in their head...right now!

How did centuries of doing things one-way suddenly just start changing overnight? Where did all the newspapers go? Where did all the old TV go? Where did the old kind of politics go? Where did #MeToo come from? Where did media-on-demand come from? Where did all of the political leaks

come from? When you go forward in time, and look at 2007 to 2020, you see more social changes-per-volume-of-people than in all of recorded history. How has that been accomplished?

We are exploring the dynamic of organic electrostatic Let me explain, first with some state-of-the-art science geeky stuff and then with some 1000 year old philosophical kinda' stuff. The human brain is a power source, or rather, a collection of approximately 80 billion batteries.

## The human brain *is* a power source that can manipulate QE...

... or rather, a collection of approximately 80 billion batteries. Each [neuron](#), the functional unit of the nervous system, is a nerve cell that in the brain possesses the ability to accumulate a charge across its cell membrane, which results in a small, but meaningful [voltage](#). The average [neuron](#) contains a resting [voltage](#) of approximately 70 millivolts or 0.07 volts. This is quite small when compared to the 1.5 volts in a AA battery or the 115 volts in a wall socket. What is interesting though, is that although 70 millivolts may seem insignificant, the microscopic scale at which it occurs is fascinating.

Voltage is defined as an electropotential difference between two points. In the case of the AA battery, this potential difference is measured between the top (+) and bottom (-) of the battery and is due to an excess of negative charge at the negative pole. In a neuron, this potential difference is measured across the lipid bilayer and the intracellular side is generally more negative. Normally, the lipid bilayer is around 5 nanometers thick, which means that the 70 millivolt potential difference is separated by only  $5 \times 10^{-9}$  meters. In contrast, a AA battery's poles are at each end of the battery and are 2 inches ( $5 \times 10^{-2}$  meters) apart.

When there is a potential difference between two separate points, like the potential difference across the lipid bilayer of a neuron, an electrostatic field is produced. A great example of an electrostatic field is the field generated between the clouds in the sky and the earth during a thunderstorm. This field is produced by a difference in charge that develops between the clouds and the surface of the earth. If this field becomes too strong, a spark of electricity shoots across the gap between the positive and negative poles and becomes lightning! Now the strength of this field is defined by a simple equation:

$$E = - \Delta\phi/d$$

where the strength of the field (E) is directly related to the potential difference ( $\Delta\phi$ , otherwise known as voltage) divided by the distance (d) between the poles. So, in a lightning storm, the electrical field would be measured as the difference in voltage of the earth and the clouds, divided by the distance between them. Lightning is produced when the electrostatic force (E) is around 3 million volts per meter!

How does a lowly neuron, with its 70 millivolts, compare to the awesome power of a lightning strike? We can simply calculate the electrostatic force across the lipid bilayer to find out. We know that the voltage across a neuron's membrane is 0.07 volts and the average thickness of the membrane is 5 nanometers.

$$E_{\text{Neuron}} = -(0.07 \text{ volts}) / d (5 \times 10^{-9} \text{ meters})$$

$E_{\text{Neuron}} = 14$  million volts per meter! That's more than four times the electrostatic force required to produce lightning during a thunderstorm!

Ok. Got it? Your brain moves your body and other stuff with it's own energy!

If you think that is freaky, get ready for the REALLY shocking part:

## Quantum Entanglement...

is a physical phenomenon that occurs when pairs or groups of [particles](#) are generated, interact, or share spatial proximity in ways such that the [quantum state](#) of each particle cannot be described independently of the state of the others, even when the particles are separated by a large distance ie: from one side of the planet to the other or across the universe!!!

[Measurements](#) of [physical properties](#) such as [position](#), [momentum](#), [spin](#), and [polarization](#), performed on entangled particles are found to be [correlated](#). For example, if a pair of particles is generated in such a way that their total spin is known to be zero, and one particle is found to have clockwise spin on a certain axis, the spin of the other particle, measured on the same axis, will be found to be counterclockwise, as is to be expected due to their entanglement. However, this behavior gives rise to seemingly [paradoxical](#) effects: any measurement of a property of a particle performs an irreversible collapse on that particle and will change the original quantum state. In the case of entangled particles, such a measurement will be on the entangled system as a whole.

Such phenomena were the subject of a 1935 paper by [Albert Einstein](#), [Boris Podolsky](#), and [Nathan Rosen](#),<sup>[1]</sup> and several papers by [Erwin Schrödinger](#) shortly thereafter,<sup>[2][3]</sup> describing what came to be known as the [EPR paradox](#). Einstein and others considered such behavior to be impossible, as it violated the [local realism](#) view of causality (Einstein referring to it as "spooky [action at a distance](#)")<sup>[4]</sup> and argued that the accepted formulation of [quantum mechanics](#) must therefore be incomplete. Einstein was WRONG!

Later, however, the counter-intuitive predictions of quantum mechanics were verified experimentally<sup>[5]</sup> in tests where the polarization or spin of entangled particles were measured at separate locations, statistically violating [Bell's inequality](#). In earlier tests it couldn't be absolutely ruled out that the test result at one point could have been [subtly transmitted](#) to the remote point, affecting the outcome at the

second location.[6] However so-called "loophole-free" Bell tests have been performed in which the locations were separated such that communications at the speed of light would have taken longer—in one case 10,000 times longer—than the interval between the measurements.[7][8]

According to some [interpretations of quantum mechanics](#), the effect of one measurement occurs instantly. Other interpretations which don't recognize [wavefunction collapse](#) dispute that there is any "effect" at all. However, all interpretations agree that entanglement produces [correlation](#) between the measurements and that the [mutual information](#) between the entangled particles can be exploited, but that any *transmission* of information at faster-than-light speeds is impossible.[9][10]

Quantum entanglement has been demonstrated experimentally with [photons](#),[\[11\]\[12\]\[13\]\[14\]](#) [neutrinos](#),[\[15\]](#) [electrons](#),[\[16\]\[17\]](#) [molecules](#) as large as [buckyballs](#),[\[18\]\[19\]](#) and even small diamonds.[\[20\]\[21\]](#) On 13 July 2019, scientists from the [University of Glasgow](#) reported taking the first ever photo of a strong form of quantum entanglement known as Bell entanglement.[\[22\]\[23\]](#) The utilization of entanglement in [communication](#) and [computation](#) is a very active area of research.

So what does this have to do with brain energy? It only takes 70 millivolts of power to produce a single Quantum Entanglement effect and remember, from above, that your brain has been proven to produce billions of times as much as that?

So, the questions arise: "Can I move stuff with my mind further than the reach of my hand?"

Can you "create 'your own parking spot' or job offer or hot girlfriend..." just by thinking about it? Can you cause the future to be one way, or the other, just by thinking about it?

Can Quantum Entanglement really help us communicate better? It does not need to be "faster-than-light" in our system. A forehead dot QE-VR phone does need to be faster than light. We are not teleporting people, we are just sounding and looking better than 5G in a safer, cheaper, better way. Can it really work? Let's discuss:

## Alice And Bob

"...To transfer information between Alice in Paris and Bob in the Antarctic at Station 7 under 20 feet of ice, the simplest way is for Alice to create a bit of information (e.g. a binary 1 or 0) and send (stimulate) it across the QE field to Bob. For there to be real information transfer, Bob MUST NOT be able to predict what Alice is going to send. In a normal phone call, you already can't predict what the person you are talking to will say next, right? So we are already part ways there in today's world.

Information theory calls this (by analogy) a high entropy state. Bob must be able to accurately determine WHAT Alice has actually sent once she sends it, even if he cannot predict ahead of time what it was going to be. An AI system can do this for Bob. Bob must have a high certainty that any

change he observes is due to the agreed system protocol that Alice and Bob's hardware agreed to upfront. AI can ensure that it is accurately transmitted with low error. Bob can't calculate this, but AI can.

So how could Bell QE, or other entanglement, be used to communicate? There are a few ways. First is transmission of the particles. To communicate, Alice generates a "1" particle and the entanglement guarantees that a partner particle which is also a "1" is sent over to Bob. AI checks this with Quantum pings. So assuming that Bob knows the channel distortion with some accuracy, he can then determine what Alice sent. AI takes care of the heavy-lifting and cross-checking here.

Now some people may say that this is no different than Alice just sending her "1" particle over a calibrated channel.

It IS different, otherwise the CIA and Russian spy agencies would not be spending tens of billions of dollars to try to optimize it. All that "distance viewing" stuff that Russia and MK Ultra experimented on in the 60's and 70's was not anything supernatural. It was just plain old vanilla QE that was not yet understood. Now CERN, and other hard device labs, have built hardware that manipulates QE, photographs it, and proves it!

At the quantum level, Alice can now test what particle she actually sent/stimulated without destroying that information on Bob's particle. In some cases, the quantum theory cannot establish that entanglement has actually occurred until both ends have received the particle pair, measured them, and then compared notes. A second checking channel can do this.

One approach is known as the SKY KING approach.

Much like the current DEFCON Skyking messages and EAMs where a voice endlessly speaks a series of numbers on radio HF channels such as, 8992 KHz USB, 11175 Khz USB, 6737 KHz USB, 8890.94 KHz USB, 8991 KHz USB, etc.; there could be a Quantum communications verification channel that anyone can use. Many gamers already use the DEFCON Sky King broadcasts to coordinate game moves in GOW. This would help to double check entanglement status.

When Alice generated both particles and tested them for entanglement before sending the second particle to Bob, the quantum measurement process may not preserve the entanglement beyond the measurement process. She would destroy the entanglement!

(Making it super secure, right? A highly desirable feature in the Post-Snowden world). A QE ping solves this bug and turns it into a feature.

Another way to potentially communicate over QE is for Alice's AI to create a large pool of "1" particles and "0" particles in a prep repository in her device, or on The Cloud, and, ahead of time, send the entangled partners over to Bob. When Alice wants to communicate, her forehead dot QE-VR phone performs a standard protocol operation on one of her particles, and in theory, Bob's AI on his QE-VR phone should suddenly see one of his particles change state.

"But!" cry some limited vision VC's, "...Alice is not actually "sending" anything to Bob; she is just stimulating his particles!".. BOO F\*CKING HOO. It does not matter as long as Bob hears her "Hello". Yes, some are freaking out because "there is nothing you can bill for". Some fools without vision are trying to slam QE because they think they will lose money because they can't put a faucet or a meter on it. Are you kidding! The big bucks in QE is in the AI to run it! People will pay trillions to experience a photo-perfect experience in the greatest scenic spots in the world with the most famous celebrities on the planet.

The QE "theorists" say they are not sure whether this is really possible since, for a low error rate, Alice has to be sure that the particles received by Bob are indeed in the correct state! AI co-linear validation-runs can solve this.

Most of us say: "Screw all theoretical physicists!... most original "theoretical" physics has been proven to be wrong. Einstein screwed the pooch. Most famous scientists now agree that Einstein was WRONG on some big theories. CERN has proven that PHYSICS HAS NO LIMITS AND NO LAWS! Just build the damn device and tweak it until it does what you want. THAT is the only LAW of physics: ANYTHING CAN BE BUILT!" Every major invention that changed society was built in about a week. You can spend decades on theories or a few weeks just knocking it out in the prototype lab. Who cares if it blows up a few times, the one time it works you just made a billion dollars. Alice may destroy one communication of the word "Hello" at the quantum level. It is fine if she destroys the entanglement that created the word "Hello". Bob only needed to hear it once and both Bob and Alice don't want hackers to ever hear it again. Tough luck for good old "Hello", but it served it's purpose....on to the next word...

For every bit of information to be transmitted to Bob, Alice first has to stimulate the entangled partner particle to Bob before she communicates. Alice 's forehead dot QE-VR phone then changes one of her bits and then Bob's forehead dot QE-VR phone should see his entangled bit changing, and he can then determine whether it was a "1" or "0" sent by Alice...

Who cares? Why not just use radios and cell phones instead of trying to grill up some old organic quantum energy network that has been laying around for centuries?

Because radio and cell phones can't communicate with PERFECT sound and video (8000 line by 8000 line video resolution) through the Earth, around the globe, into space and everywhere at once, like QE can, for free...and the entire network already exists, without any new construction!

Quantum energy exists. It is everywhere at once. It is not new age BS. It is PHD level science that has been proven...."

Bell and particle concurrence entanglement have now been proven in scientific studies. Get ready to put on your forehead quantum dot and go light years beyond old VR!

Just stick your forehead dot device on and talk to, and see, Bob on the other side of the world just like in the movies...

These links show how far we have come:

<https://journals.aps.org/prl/abstract/10.1103/PhysRevLett.123.070505>

### [Hyperparallel transistor, router and dynamic random access memory with unity fidelities](#)

W. Pan, "**Quantum** teleportation of multiple degrees of freedom of a single photon," Nature 518(7540), 516-519 (2015). [Crossref] Y. B. Sheng, F. G. Deng, and G. L. Long, "Complete hyperentangled-Bell-state analysis for **quantum communication**," Phys.

### ['The Next Leap Forward' - Four Quantum Technologies Hubs to lead UK's research drive Process Control Today](#)

The National **Quantum** Technologies Programme, which began in 2013, has now entered its second phase of funding, part of which will be a £94 million investment by the UK government, **via** UKRI ... conventional **communications**, or using **entanglement** working ...

### [How Einstein Set Back Quantum Mechanics Three Decades](#)

<https://stuartbramhall.wordpress.com/2019/07/13/how-einstein-set-back-quantum-mechanics-three-decades/>

However China, which has recently launched a **quantum communications** satellite, is far and away the world leader in this area. \*A qubit is a two-state **quantum** entangled mechanical system. An example would be a polarized photon (an elementary particle or **quantum** of light) that ceases to be entangled if a hacker tries to hack it.

### [First image of Einstein's 'spooky' particle entanglement – PROVEN](#)

### ['spooky' effect of physics that Einstein couldn't believe has been photographed f... - PROVEN](#)

## Can Weird Things Really Work?

If you think QE is outlandish, consider this fact: The Pentagon already Has Lasers That Beam Messages Into Your Head!

While this is not particularly what we are working on, it demonstrates that the “impossible” is only one micro-chip away from becoming a reality. Previously the realm of “crackpot science”, the military has openly proven that it can beam messages into your brain. Here is their powerpoint on it:



Posted By: [Jon Lockett](#)

Talking lasers can send audible messages directly into your head from up to hundreds of miles away. When perfected, this technology will be used by military and civilian applications to control crowds and individuals. - TN Editor TN Editor

Military scientists at the Pentagon are developing 'talking' lasers which can beam warnings straight into the enemy's head from hundreds of miles away. Weapons researchers at the Department of Defense say the hi-tech weapon will be able to send brief messages – in the form of audible speech – across combat zones.

The aircraft, ship and truck-mounted devices are being developed as part of a military initiative called the Joint Non-Lethal Weapons Directorate.

The scientists plan to use a phenomenon of physics called the Laser-Induced Plasma formation to make the laser a reality. First, they fire a powerful laser that creates a ball of plasma. Then, a second laser works to oscillate the plasma creating sound waves. These intense laser bursts can then perfectly mimic human language, chief scientist Dave Law told the Military Times.



# Dept. of Defense Non-Lethal Weapons Program

<http://jnlwp.defense.gov/>



## Directed Energy Portfolio: Sound and Light *Hail, Warn and Communicate*



**Sound and Light (S&L) Directed Energy (DE) Non-Lethal Weapons (NLW) systems** integrate various independent technologies such as:

- dazzling lasers
- high-intensity lights
- acoustics
- operating interface systems

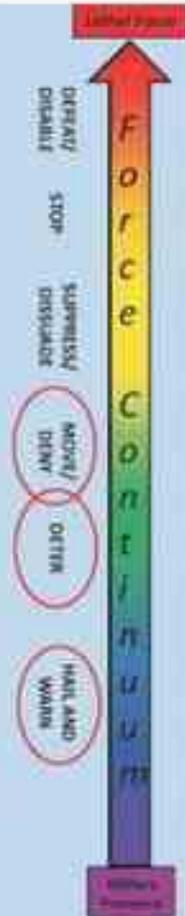
into ergonomic and effective system-of-systems elements that hail, warn, move, disrupt and suppress individuals with very low risk of significant injury.

**OPERATIONAL IMPACT:** Enable commanders to control or de-escalate a situation using NLW to hail, warn, dazzle and/or communicate. The Program's S&L portfolio supports National Defense Strategy objectives, including:

- Defending the Homeland
- Deterring aggression
- Defending U.S. interests below armed conflict
- Full-scale war

**Future Efforts:**

- Operational assessments
- Fully integrated system of systems
- Laser and acoustic enhancements
- Unmanned/autonomous operation



He added that the technology could be ready for battle in just five years.

A video shared to publicise the Pentagon project shows the weapon saying ‘Stop or we’ll be forced to fire upon you.’ Scientists say these laser-grams will soon be able to beam hundreds of miles away.

The news will send shudders through the conspiracy theorist community who have long claimed the US government uses radio waves as part of a thought-control programme. The Pentagon has revealed it

is ploughing tens of millions into developing state-of-the-art laser weapons – to ensure it doesn't lag behind Russia and China.

So you see, QE is not as far off as some say. Our version of QE is for the common good, though.

PEOPLE THAT NAY-SAY QUANTUM PHYSICS ARE THE SAME PEOPLE THAT SAID:

"...nobody will ever need more than 640k ram..."

"...Humans will never be able to fly to the moon..." " ...Richard Nixon is not a crook..."

"...Humans can never fly on machines..."

"...nobody will watch movies on the internet..."

"...mesh networks cannot exist..."

...and tens of thousands of other things that they were entirely, totally, wrong about ...

In July 2019, physicists reported, for the first time, capturing an image of a strong form of [quantum entanglement](#), called Bell entanglement.<sup>[7][8]</sup>

Deep research centers, defense related analysis centers and bleeding edge physicists state that quantum devices can accomplish anything you can imagine: time-shifting, communications across unfathomable distances, teleportation, object materialization from energy-level construction, etc... “just think it, and it happens”, some say.

Can you shift the direction of the socialization trends, politics, interests or news focus of an entire nation just by getting a small part of a population to start thinking in the same direction? Can you “Quantum Induce “the future? Thousands of years of eastern religions and philosophies “guarantee it”.

The western feature film called: “The Men Who Stare At Goats”, with George Clooney, documents the U.S. Defense Department’s attempts to embrace the technology. A trillion dollars of government research by China, Russia and the U.S. military and and millennia of eastern writings prove there is something to QE. Is your mind able to accomplish “magic”? Can a simple amplifier help you generate impossible realities?

## **Other Possible Benefits Of QE**

For the energy needs of the world, QE could offer spectacular upside. Some of our associates are working to build Quantum Batteries.

Quantum methods can easily and effectively transfer whole amounts of electrical energy with zero quantity loss. The advantages associated with the technology are immensely useful in context to our current advancement streak: -

The costs of mile-long durable transmission lines are diminished for the generation-to-consumption point run.

10% of the produced electrical energy is lost from the grid station too which can be reduced when overloading is controlled after implementing transmitting terminals instead of hundreds of transmission poles around the station itself.

These terminals will be able to wirelessly transfer electrical energy to the districts; owing to atmospheric intervention in the city area, the inside-district transmission will be carried out by conventional wires but the entire process would have saved a high factor of energy which would have been otherwise lost completely.

The dangers associated with the high-voltage wires and poles i.e. car accidents etc. are completely avoided with the introduction of wireless energy transfer.

The part of the energy that is lost as heat energy is minimized up to the point where some heat is lost in the entanglement process. It is economical as the only running costs required will be of controlling the terminals.

There is seemingly no setback to the technology currently. The terminals will, of course, require expert management and maintenance and with those essentials we can, perhaps, fulfill our requirements with the current amount of electricity produced itself. Other than preserving energy, quantum entanglement has a key role to play in future communication technologies owing to its special properties. When analyzing the pros and cons of implementing the set-up in our current system, we will only come across benefits and hardly any setbacks once we have mastered the reigns of the quantum realm.



A Quantum Dot on the forehead could amplify brain effect manipulation of Quantum fields

# SPOOKY-ACTION-AT-A-DISTANCE Quantum Entanglement

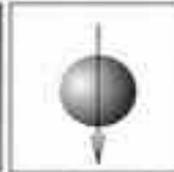
In quantum physics, entangled particles remain connected so that actions performed on one affect the other, even when separated by great distances. The phenomenon so irked Albert Einstein he called it "spooky action at a distance."

## Quantum Superposition

The rules of quantum physics state that an unobserved photon exists in all possible states simultaneously but, when observed or measured, exhibits only one state.



Unobserved photon exists in all possible states.

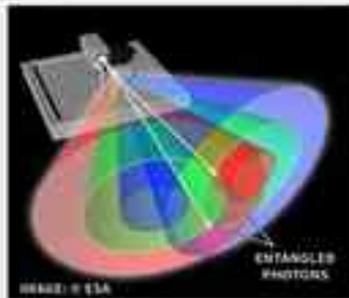


Observed photon is only in one state (spin up or down).

Spin is required here as an axis of rotation, but actual particles do not rotate.

## Quantum Entanglement

Entanglement occurs when a pair of particles, such as photons, interact physically. A laser beam fired through a certain type of crystal can cause individual photons to be split into pairs of entangled photons.



A photon is split into two entangled photons.



Entangled photons are widely separated.



When observed, Photon A takes on an up-spin state. Entangled Photon B, though now far away, takes up a state relative to that of Photon A (in this case, a down-spin state). The transfer of state between Photon A and Photon B takes place at a speed of at least 10,000 times the speed of light, possibly even instantaneously, regardless of distance.

SOURCE: European Space Agency; THE NEW YORK TIMES; PHOTONIC LIFE/PHYSICS; AAM, 1971 / © iStockphoto.com

# Physicists help to decode the brain

An increasing number of physicists are using their expertise to understand the human brain. Paula Gould spoke to several researchers who have made the move to neuroscience

Doctors know that they can control epileptic seizures without having to perform surgery by placing the patient's brain in an electric field. In doing so, they are exploiting the fact that an electric field can cause neurons to fire in synchrony. But they do not understand exactly how the process works. Eun-Hyoang Park, a research associate at the Neural Engineering Center at Case Western Reserve University in the US, believes that it is important to understand the way in which the neurons respond to the field. "This is an area where mathematicians and physicists can help," she says. "You need to understand why these therapies work."

Park is one of a growing number of researchers who have opted to apply their physics training to problems in neuroscience. Park initially completed a PhD and postdoctoral work in chaos theory and phase synchronization. She then moved to Case Western to apply the same theoretical tools to medical applications. "I wanted to expand my knowledge into a more applied field," she says. "Synchronization prevails in nature in a lot of different areas."

Dominique Dumas, editor in chief of a new *Journal of Neural Engineering* published by the Institute of Physics, believes that the contribution of physical scientists and engineers is crucial to understanding the brain. "While neuroscientists and engineers from varied fields such as brain anatomy, neural development and electrophysiology have made great strides in the analysis of this complex organ, there remains a great deal yet to be uncovered," he says. "The potential for applications and remedies deriving from scientific discoveries and breakthroughs is extremely high."

Denis Le Bihan, director of the Institute of Functional Neuroimaging, in Paris, agrees that physicists' theories are critical to advancing treatment of neurological and psychiatric disorders. "Models and tools used today in high-energy physics could show how clusters of neurons work together," he says. "In fact, the secrets of the brain could be in the hands of physicists."

Le Bihan's perspective on interdisciplinary collaboration is aided by his dual background in medicine and physics; he left college as a qualified medical doctor and with a PhD in physics. He has subsequently emerged as a world authority on magnetic resonance imaging (MRI), developing pioneering techniques to study acute brain diseases and connectivity disorders.

Le Bihan is currently overseeing plans for a new neuroimaging centre within the re-



Smart stuff – physicists are using techniques such as MRI to make detailed studies of the brain.

search campus of the French atomic energy commission (CEA) on the outskirts of Paris. The NeuroSpin complex will house four ultrahigh-field MRI units suitable for human and animal studies. The state-of-the-art scanners will offer sufficient spatial resolution to visualize neurons and neuronal connections directly. Scanner access will be split between full-time staff members and researchers from other institutions who have bought time slots, a concept more familiar to physicists than biological neuroscientists. "I do not say that NeuroSpin is exactly like CERN, but it provides a good working model for sharing large, expensive equipment," says Le Bihan.

## Learning from biology

Physicists have much to learn from their colleagues in biological neuroscience too. "In physics you always try to use a simple model to explain experimental results, but neuroscientists always try to simulate everything in detail. They want a real model, not a simple model," says Jianwei Shuai, a neurologist at the University of California, Irvine, who originally did a PhD in theoretical physics. He now uses tools from nonlinear dynamics to model the way cells communicate via calcium signalling. A lone theorist in a laboratory of experimentalists, Shuai now regards himself as both a physicist and neuroscientist. Yet it took a good three years to complete the philosophical transition, he says.

Zhaoping Li, reader in psychology and honorary reader in physics at University College London, is equally adamant that physicists should adopt an alternative mindset when moving into neuroscience. When interviewing prospective postdoctoral students, she quizzes them if they expect to be

asking original questions about neurological systems themselves. "This is not a field where other people ask the questions and you just solve them. You need to ask the questions yourself. Open your mind to be more ambitious," she says.

But this more creative approach can be quite daunting at first, says John Hertz, professor of biophysics at the Nordic Institute of Theoretical Physics in Copenhagen. Hertz trained in statistical physics and condensed-matter physics before becoming interested in disordered systems and eventually biological information processing. He worked first on spin glasses, systems with a highly irregular magnetic configuration. Spotting an analogy with neural circuitry, he then started to apply his ideas on magnetic systems to model memory. "Initially I really felt I was too ignorant about real neuroscience to dare say much about it. But gradually I got more confident," he says.

## Opening doors and minds

Experimentalists are also benefiting from closer collaboration with their theoretical colleagues, and recognizing the importance of theory within their discipline. "In the old days, experimental neurobiologists never read any theoretical papers. Everybody assumed they could do their own theory. But now people are realizing that a little higher level of mathematical abstraction helps," he says. "When I go to neuroscience meetings, most people do not think of me as a physicist, they think of me as a computational neuroscientist."

The route from physics to neuroscience is now easier, thanks to the advent of dedicated postgraduate programmes that help theorists catch up with biological knowledge, Hertz says. Many recent recruits to the field have been attracted by the novelty of neuroscience, he says. "Everybody is interested in how our brain works. Physicists are discovering that now you can study it in a useful way."

Li urges physicists to take advantage of today's welcoming climate in neuroscience, having battled for acceptance herself. "There is a growing community of people like myself, but, of course, I would like to see more," she says. "We are the generation that has to make a difference. We have to make some kind of a breakthrough to demonstrate that theoretical neuroscience is having an impact and attracting new students, and become an established discipline rather than bordering on the boundaries of other departments."

# Can Our Brain Waves Affect Our Physical Reality?

The higher the frequency of our thought/brain wave, the higher our consciousness. The level of our consciousness is what makes our reality what it is and what it will continue to be.

By [Peter Baksa](#)

*So, what is thought and how does it connect up with quantum mechanics?*

Your brain is comprised of a tight network of nerve cells, all interacting with one another and generating an overall electrical field. This electric field is detectable with standard medical equipment. Your brain waves are simply the superposition of the multitude of electrical states being formed by your nervous system.

Not only your brain, but your entire body has an electric field. Anywhere there's a nerve cell, there's electricity. It's just concentrated the greatest around your head because that's where the bulk of your nerve cells are. Any time you've felt the shock of static electricity, or used a touch-sensitive screen, you've proven that you have an electric field.

So, nothing mysterious about that part.

Being an electric field, all those overlying electric wave patterns that comprise your brain waves are governed by the same equations governing the electromagnetic spectrum, light, particles and everything else in the universe. The light seen coming from a star and the energy of your mind are one and the same type.

Your thoughts are formed in this electric field. The measurable perturbations and disturbances in the brain's overall electric field are your actual thoughts racing through your mind. As you read this article, the thoughts you are thinking of, the words your mind is processing, are all electrical impulses that can be measured if you had a few wires hooked up between your head and a machine. So thoughts are energy, the same as everything else.

That means they are governed by the rules of quantum mechanics and Schrödinger's wave equations as well. All those same weird things about quantum mechanics that describe how an electron or photon behave, apply to you and your thoughts as well. The particle-wave duality, the uncertainty principle, and of course, entanglement.

This implies that, like any other set of particles or source of energy, we are entangled with everything we've ever encountered, the environment around us and the rest of the universe through the zero point field. We'd mentioned that consciousness is the key to making the mysteries of quantum mechanics work in past articles -- well, this is how it happens.

The one difference between us and a photon is that we can think, we are conscious. As such, we can choose which of the possibilities before us to collapse our wave function into. But more than that, since we are entangled with our environment we can thus affect that as well and influence the randomness, just as it can influence us.

Since we are conscious, we can choose what part of the randomness around us to be affected by, and how we in turn would like to affect it. It is through the property of entanglement that we can affect change in our environment. Our minds are transceivers, able to receive and send signals into the "quantum soup" of the zero point field by way of the highly coherent frequencies of our thoughts.

The higher the frequency of our thought/brain wave, the higher our consciousness. The level of our consciousness is what makes our reality what it is and what it will continue to be. If you are seeking change, set an intention, declare a path (align your behaviors with your desire), then detach and allow the universe to handle the details.

*[Peter Baksa](#) has written "[The Point of Power](#)", available now on Amazon. He is also the author of "It's None of My Business What You Think of Me!" "Thinking Yourself Young," which will include interviews with Tibetan Monks from earlier this spring, and "The Faith Wave; I think therefore it is," release date Jan 2012.*

Check out this live interview by cutting and pasting this into your browser:  
<http://answers4thefamilyblog.com/the-point-of-power/>.

# What is the Schumann Resonance?

The earth's magnetic field has a set of resonant frequencies that scientists theorize could have an effect on human behavior.

By [Trevor English](#)



[NASA](#)

The Earth has been the focus of a massive amount of scientific studies over the years. From the shrinking [ozone layer](#) to the changes in our planet's magnetic field, there's plenty to keep researchers busy.

One possibly surprising area of research is in the way the Earth acts like a giant electrical circuit. The atmosphere of the Earth is actually a weak conductor. If there was no source of electric charge for the atmosphere, its energy would dissipate in about 10 minutes – but it doesn't.

The ionosphere is the region of the Earth's atmosphere that starts at around **50-100km** above the surface and reaches upward for several hundreds of kilometers.

## **RELATED: LIGHTNING MAY ACTUALLY PROTECT LIVING ORGANISMS**

Due to solar radiation, individual electrons are dislodged from otherwise neutral gas atoms in this region, creating positively charged ions. This makes the ionosphere conductive and able to trap electromagnetic waves.

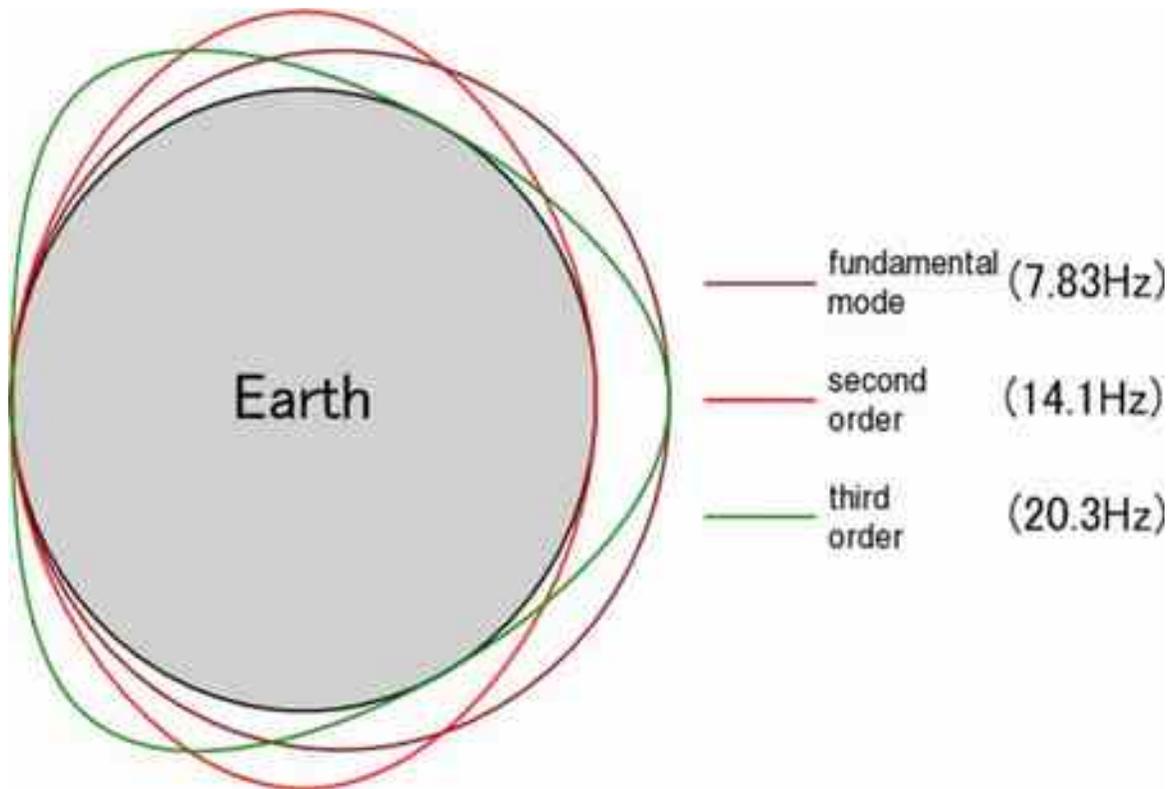
Between the Earth's surface and the ionosphere is a cavity containing a total electrical charge of **500K Coulombs**. There is a vertical current flow between the ground and the ionosphere. The atmosphere has a resistance of **200 Ohms** and a voltage potential of **200,000 Volts**.

Around the Earth, there are roughly two thousand lightning storms at any given period of time, producing around 50 flashes of [lightning](#) every second. This accounts for much of the measured flow in this electromagnetic cavity.

But what does all this mean?

It means that there is a great deal of electrical activity between the surface of the Earth and the ionosphere. Some of this is in the form of standing waves of electricity. These standing waves are known as [Schumann Resonances](#).

Each lightning burst creates electromagnetic waves that begin to circle Earth in the cavity between Earth's surface and the ionosphere. Some of the waves - if they have just [the right wavelength](#) combine and increase in strength to create a Schumann resonance.



Source: [STW/Wikimedia](#)

The 'sweet spot' for creating this resonance is when the wave is as long or longer than the circumference of Earth. This is an extremely low-frequency wave of up to one hundred thousand times lower than the [lowest frequency radio waves](#) used to send signals to your AM/FM radio. As this wave flows around Earth, it hits itself again in such a way that the crests and troughs of the wave are aligned.

Scientists speculate that the waves are related to the electrical activity in the atmosphere.

The base atmospheric electromagnetic resonant frequency is **7.83 Hz**. This means our atmosphere is continuously resonating with a radio frequency of **7.83 Hz**, along with progressively weaker harmonics at **14.3, 20.8, 27.3** and **33.8 Hz**. These are what is known as the Schumann resonance.

## History

The atmosphere was first proposed as a good conductor of electricity in 1893 by George FitzGerald. He was able to estimate that, based on the layers of the atmosphere where he saw the best conductors, there would be electromagnetic oscillations of around **0.1 seconds**. He had theorized and essentially discovered the lowest mode of Schumann resonances.

Although it has been suggested that the resonances be renamed Schumann-Fitzgerald, his findings weren't well known and received little scientific discussion at the time.

It wasn't until 1902 that it was suggested the ionosphere existed, and in 1925, the existence of the ionosphere was experimentally proven.

Although mathematical tools for dealing with spherical waveguides were developed in 1918 by G. N. Watson, the theoretical aspects of global resonances were not substantively studied before Winfried Otto Schumann's work in 1952-1954.

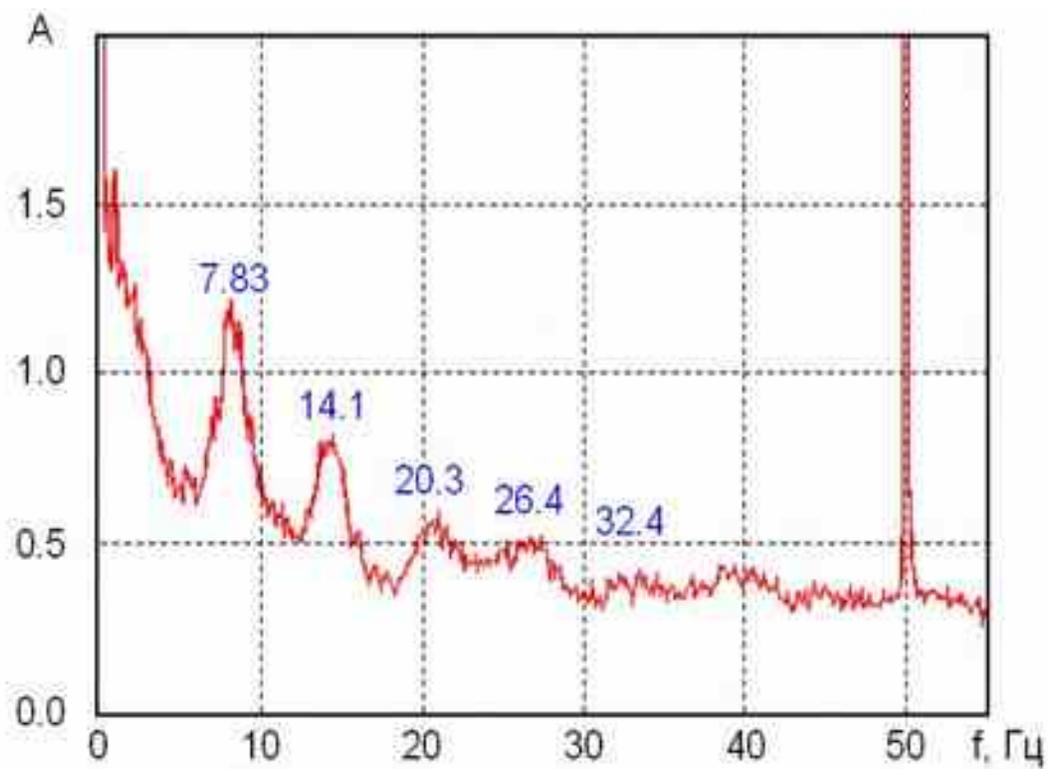
Schumann, working with H. L. König, was the first to attempt to measure the [resonant frequencies](#) of the Earth. However, it was not until 1963 that some techniques were developed for extracting the exact resonance frequencies from background noise.

## What does a spike mean?

The amount of resonance fluctuates as the ionosphere becomes more or less dense. This depends largely on the amount of solar radiation striking it. At night, that part of the ionosphere that's in the Earth's shadow thins out.

The resonance can also be affected by the world's three lightning hotspots — Asia, Africa, and South America, which are seasonal and also follow a day/night cycle. Thus, the peaks of radio signal strength at the Schumann resonance follow a constantly shifting but reasonably predictable schedule.

It has also become common for some to associate the Schumann resonance with different types of brain wave states. Some have even gone as far as to relate the frequency of **7.83 Hertz** to hypnosis, suggestibility, meditation, and an increase in human growth hormones. However, there is no scientific proof for any of this.



Source: [Wikimedia/AdmiralHood](#)

Whether it's quackery or not is still being researched, but there are some researchers who believe that our bodies can be influenced by the electromagnetic resonant frequencies around us.

So when these frequencies spike, these people believe this can also have an effect on human and animal behavior.



Source: [NASA](#)

In January of 2017, the Schumann Resonance reached frequencies of above **36 Hz**, which was unusual. Historically any rise about **15 Hz** was considered large, so scientists were puzzled. According to some, these higher resonant frequencies on Earth are associated with more stressed, nervous systems than normal.

In the realm of "speculative" or "new age science," many believe that the Schumann Resonance can be affected by and affect human consciousness. So, if there is a global increase in [anxiety](#) or tension, this will also affect the Schumann Resonance.

There's also the belief among some new age proponents that an increase in these resonant frequencies could affect humanity as a whole and cause a global rise in anxiety, tension, and/or passion.

Although these ideas can be dismissed as having no basis in science, there is still a question of how whether the Earth's electromagnetic fields can have an effect on humans.

# A Product That Can Power You Up?

“*The Men Who Stare At Goats*” is a film about a real-life defense Department effort to use brain energy to make things happen. Yoga and Eastern mental training has been scientifically proven to power up your mental abilities.

What if you can do it with a little item you could buy at Walgreen’s or Rite Aid?

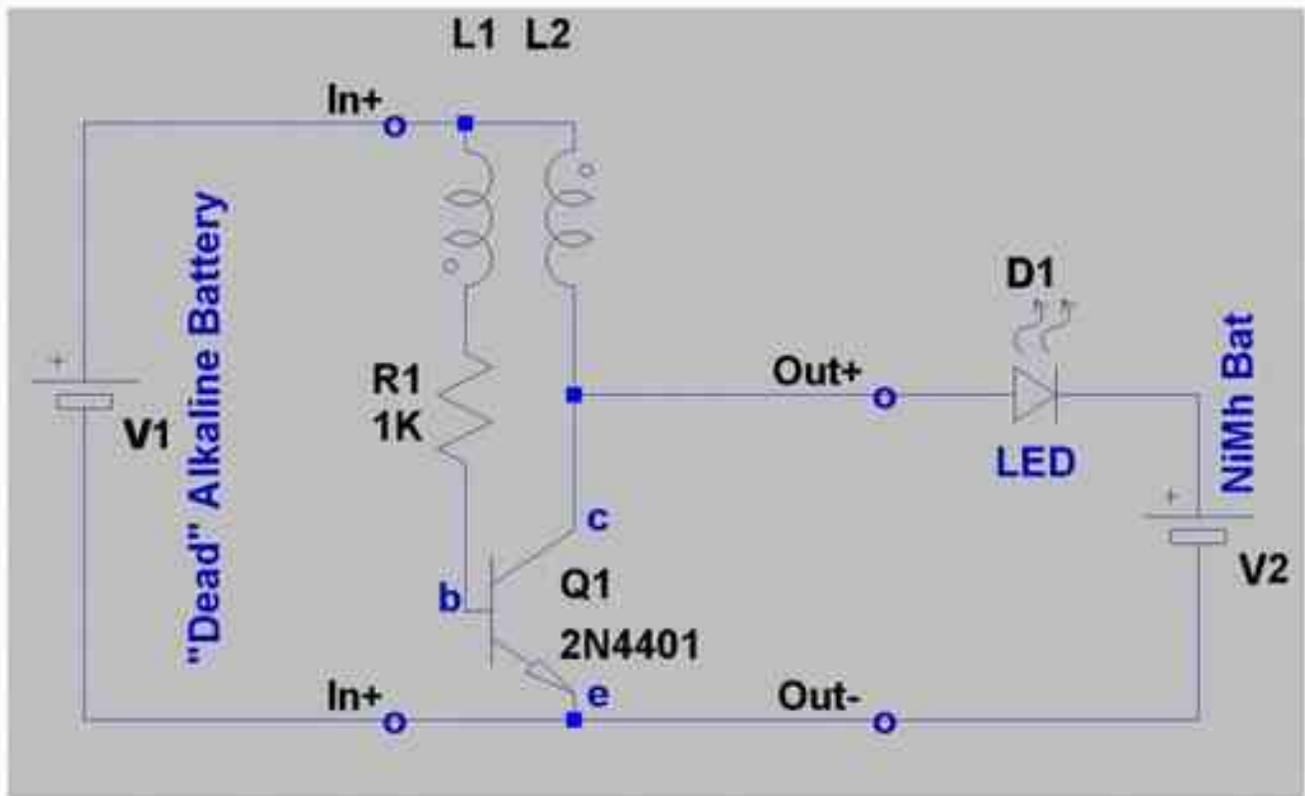
Let’s examine one of many possible approaches for an “Amplifier”.

Using the Joule Thief circuit and the Slayer007 approach you can make compact Thermal Electric Generator ( TEG ) using a thermal electric cooler ( TEC a.k.a Peltier device ) and a Joule Thief. Let’s go through the basic concept using body energy to capture electricity. First, a basic concept:

This TEC produces about 1.8VDC when heated on one side and cooled on the other (this setup uses a candle as the heat source and cooling is from ambient air). The advantage of using the Joules Thief circuit in this setup is that it will boost low voltages to higher usable voltages. The open circuit output voltage of the Joule Thief in this circuit was about 31V Peak. It takes about 14VDC to forward bias and light the four LEDs. The down side of this circuit is that there are conversion losses, but still it costs a lot less to buy one TEC then to buy nine of them and put them in series to get to the voltage required.

From the time I light the candle it takes ~36 seconds to light the LEDs, and they continue to get brighter from there. The LEDs stay lit for ~2 minutes after I blow the candle out, as the residual heat moves from the bottom heat sink through the TEC to the top heat sink, not shown in the video. Here is a video of the circuit in operation:

The major components are the top heat sink, thermal electric cooler, Joule Thief, bottom heat sink, and candle in place of a human heat source.



To acquire the last bit of energy from a “dead” alkaline battery you use this circuit. In this case the depleted battery will store brain or body created electricity. When your modern electronics gadget turns off because the alkaline batteries are “dead” it just means the voltage in the batteries has dropped below a usable level for that gadget, which depending on the electronics that voltage could be around 0.9 VDC to 1.2VDC per cell.

When the alkaline battery is below 0.9VDC there is not much usable energy left, but if there is 1.2VDC left in the battery there is about 28% of the energy left in the battery.

So what can I do with this “dead” alkaline battery? You can use a Joule Thief to make a battery charger that depletes the remaining energy from the alkaline battery and recharges a NiMh battery.

In this example, using the Joule Thief to charge NiMh batteries:

1) This probably is not the most efficient way to recover the energy, but hey it is quick, cheap, and easy to do. The batteries were going to the trash so I might as well try to recover the lost energy from them.

2) The LED in the schematic probably uses half of the energy that would be recovered, but it is the only good way to see if the circuit is still running. You could also modify the circuit and charge up to 4 NiMh batteries in series (of course this will reduce the charge current, since the boost voltage has to increase). If you use a white LED the circuit can be used as a night light, but the white LED (3.5V forward voltage) will consume about 79% of the energy when you are charging one NiMh Cell. If you charge four NiMh batteries in series the white LED will consume about 41% of the charging energy,

the LED will be dimmer since the current will drop. If you use a standard red LED (1.7V forward voltage) the LED will consume about 57% of the charge energy when you charge one NiMh cell, with four series NiMh cells the red LED will consume about 25% of the charge energy.<sup>3</sup>) This circuit, if built properly, will run the alkaline battery down to 350-400mV which will truly make it a dead battery.

4) As long as your NiMh battery has a high enough capacity you will not overcharge it with this circuit, provided you do not exceed its C/10 rating (capacity/10). “The cheapest way to charge a nickel metal hydride battery is to charge at C/10 or below (10% of the rated capacity per hour). So a 100 mA/Hr battery would be charged at 10 mA for 15 hours. This method does not require an end-of-charge sensor and ensures a full charge. Modern cells have an oxygen recycling catalyst which prevents damage to the battery on overcharge, but this recycling cannot keep up if the charge rate is over C/10. The minimum voltage you need to get a full charge varies with temperature—at least 1.41 volts per cell at 20 degrees C. Even though continued charging at C/10 does not cause venting, it does warm the battery slightly. To preserve battery life the best practice is to use a timer to prevent overcharging to continue past 13 to 15 hours.”

5) It can take several “dead” alkaline batteries to recharge a 1500mAH NiMh battery. If you build the circuit to charge 4 batteries in series. The battery charger circuit will work great for several days until the charged batteries get up to around 5.4v then they started to discharge. Be aware that the LED reverse breakdown voltage is somewhere around 5.4V and it will end up destroying the LED and discharging the NiMh batteries. You will need a better circuit that is more efficient and captures energy quicker but this first rudimentary system proves the concept.

High permeability toroid cores are so high that it can achieve somewhere between 3-5uH per each winding. This allows you to make a High Power Joule Thief with just one winding on each side of the transformer.

The new one winding Joule Thief is very stable, starts up at below 600mV, and runs very bright at 1.5VDC leaving spots in your vision if you happen to glance at the LED while it is on.

The higher power Joule Thief Kit that includes a Cree 1Watt XLamp white LED. This phase 2 design has a very high permeability core that allows you to make the transformer with just one winding of each wire, this greatly speeds build time of this kit. Warning these are class 2 LEDs per IEC 60825-1. These LEDs can damage your eyes!.

The system contains:

- \* 12 inches red magnet wire
- \* 12 inches green magnet wire
- \* 1ea - 1.5A NPN TO-92 transistor
- \* 1ea - high perm torroid
- \* 1ea - 1/4watt axial resistor
- \* 1ea - PCB
- \* 1ea - Cree XLamp 1 Watt 50 Lumen white LED

These circuits run for 8 hours and up to 15 hours - this means the back EMF spike does work.

Supercaps must not be overvoltage.

Moving on from there you can make a compact thermal electric generator ( TEG ) using a thermal electric cooler ( TEC a.k.a Peltier device ) and a Joule Thief.

This TEC produces about 1.8VDC when heated on one side and cooled on the other (this setup uses a candle as the heat source to simulate body acquired heat and cooling is from ambient air). The advantage of using the Joules Thief circuit in this setup is that it will boost low voltages to higher usable voltages. The open circuit output voltage of the Joule Thief in this circuit was about 31V Peak. It takes about 14VDC to forward bias and light the four LEDs.

The down side of this circuit is that there are conversion losses, but still it costs a lot less to buy one TEC then to buy nine of them and put them in series to get to the voltage required.

From the time you light the candle it takes ~36 seconds to light the LEDs, and they continue to get brighter from there. The LEDs stay lit for ~2 minutes after you blow the candle out, as the residual heat moves from the bottom heat sink through the TEC to the top heat sink.

You can use 2 Peltiers in series, and a mini Joule Thief with a total voltage starting at 2.1 volts and then the system will add/harvest the voltage up to 7 volts.

A torroid coil is placed over a peltier and the peltier puts out power.

A 400 watt Peltier module can pick up energy from a 2" toroid coil in a low voltage CFL Joule Thief circuit. The energy is captured in a 10uf 35 volt capacitor and then released through 3 white LEDs. The charging up of the capacitor can be shown on a meter. An earth ground can also be metered in and out of the circuit to show the improvement in efficiency of that additional connection.

Now you have proven that you can capture human energy and amplify it using simulations of the process.

Let's take this to the next level.

In the next iteration of this circuit your back emf will the ignition coil for the CFL. You can then collect the back emf of the ignition coil and harvest way more power with far less expense of energy to collect that power. You should experiment with different coil designs for optimization.

You can also disconnect the negative side of the ignition coil but still leave the negative side of the cap. and diode connected to + and you still get a lot of power for 10 to 20 mil amps

This is, essentially, a solid state Pulse Generator. It runs a modified CFL and charges at the same time from energy supplied by the body. It is not "free energy" because the human has to eat to supply the energy.

This proves that human supplied base energy can be amplified in a wearable device.

Without putting any hardware into your head, and without sending any energy into the body, we can capture energy FROM the body in a 100% biologically safe manner. A pull-over ski cap is used for

human energy acquisition and is just an external grid antenna made up of a vast number of woven mini induction antennas in a knit cap.

The iterations, from this point, involve optimizations and metering to achieve the highest targeted amplification and projection to a remote location, bio-feedback training system or communications loop.

Nothing proposed involves putting any ideas, wires or sensors into the body. This device exists to amplify your own brain energy, under your exclusive control without interference or sensing by any outside party. Working versions of the hardware, in prototype format, have been constructed.

LAB EXPERIMENTAL UNIT CONCEPT:



CONSUMER UNIT CONCEPT:



# REFERENCES AND CITATION LINKS

## [Spooky Quantum Entanglement Created in Everyday Objects](#)

 <https://www.popularmechanics.com/technology/gadgets/a7355/spooky-quantum-entanglement-created-in-everyday-objects-6606439/>

**Quantum** entanglement happens when two particles, such as photons or electrons, interact and become linked. Even when the particles are moved miles apart, the molecules' mechanical states (such as their spin, momentum, and polarization) remain mysteriously coupled. If the state of one entangled particle is changed,...

## [Quantum Entanglement and Mind Over Matter](#)

 [https://enigmose.com/quantum\\_consciousness.html](https://enigmose.com/quantum_consciousness.html)

Taking **quantum** entanglement a step further there lies a truly bizarre supposition of **quantum** theory that states the very act of observing affects the observed reality. It's **mind over matter** squared. Some unknown force linked to consciousness seems to have an effect on subatomic particles.

## [A quantum case of mind over matter? - Inside The Perimeter](#)

 <https://insidetheperimeter.ca/a-quantum-case-of-mind-over-matter/>

A **quantum** case of **mind over matter**? New research proposes a way to test whether **quantum** entanglement is affected by consciousness.

## [Consciousness, Hidden Knowledge, Mind over Matter, Quantum ...](#)

 <https://www.youtube.com/watch?v=kvOMgGVnGv8>

The Invisible Reality: The Wonderful Weirdness of the **Quantum** World - Duration: 1:30:56. World Science Festival 1,241,845 views

## [SEVEN USES FOR QUANTUM ENTANGLEMENT - quantum tantra](#)

 [quantumtantra.com/entangle.html](http://quantumtantra.com/entangle.html)

**MIND OVER MATTER** Eberhard's Proof shows that altho Earth and Pluto may be instantly connected in Reality, it is impossible in the world of Appearance using current physical processes to send faster than light messages via the **quantum** entanglement channel. However suppose we introduce processes that lie outside of conventional physical measurements.

## [Stuart Hameroff - Quantum Consciousness & Mind Over Matter ...](#)

 [https://www.youtube.com/watch?v=5\\_w39gHqF3Q](https://www.youtube.com/watch?v=5_w39gHqF3Q)

Stuart Hameroff - **Quantum** Consciousness & **Mind Over Matter** Lectures Beyond Beyond.  
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## [Is Mind Over Matter REAL? | Scientific Evidence - YouTube](#)

 <https://www.youtube.com/watch?v=KukfeoZ7Y88>

**Is Mind Over Matter** REAL? | Scientific Evidence ... **Mind Matter** Interaction ~ References Schmidt (1987). The strange properties of psychokinesis. ... **Quantum** Fields: The Real Building Blocks of ...

## [Proof of Mind Over Matter - The Double Slit Experiment ...](#)

 <https://www.youtube.com/watch?v=btImof4nyzo>

The modern double-slit experiment is a demonstration that light and **matter** can display characteristics of both classically defined waves and particles; moreo...

## [MIND FORMS MATTER: Proof That Our Thoughts Create Reality](#)

 <https://www.mindformsmatter.com>

Many top physicists do know that **mind** forms **matter** It is the rest of science, media and the world who do not want to listen to what they are saying. Max Planck , Nobel Prize Winning father of **quantum** mechanics says, "I regard **matter** as derivative from consciousness."

## [MIND OVER MATTER: Consciousness Power, Facts, Truth, Tips](#)

 <https://www.mindovermatterpower.com>

**Mind Over Matter** Power Principles. We can solve not only the problems of violence in our culture, but also eliminate barriers to success so that we can achieve our personal goals and ambitions. Click on image for scientific validation that thoughts create **matter**. View free prosperity video now!

## [Quantum Entanglement and Mind Over Matter](#)

 [https://enigmose.com/quantum\\_consciousness.html](https://enigmose.com/quantum_consciousness.html)

Taking **quantum entanglement** a step further there lies a truly bizarre supposition of **quantum** theory that states the very act of observing affects the observed reality. It's **mind over matter** squared. Some unknown force linked to consciousness seems to have an effect on subatomic particles.

## [Quantum mind - Wikipedia](#)

 [https://en.wikipedia.org/wiki/Quantum\\_mind](https://en.wikipedia.org/wiki/Quantum_mind)

The **quantum mind** or **quantum** consciousness is a group of hypotheses which proposes that classical mechanics cannot explain consciousness. It posits that **quantum** mechanical phenomena, such as **quantum entanglement** and superposition, may play an important part in the brain's function and could form the basis for an explanation of consciousness.

### [Quantum Entanglement Creates New State of Matter - Scientific ...](#)

 <https://www.scientificamerican.com/article/quantum-entanglement-creates-new-state-of-matter1/>

**Quantum Entanglement** Creates New State of **Matter**. Half a million ultracold atoms were linked together in the first-ever "macroscopic spin singlet" state

### [A new theory based on quantum entanglement says your mind ...](#)

 <https://ideapod.com/new-theory-consciousness-mind-isnt-confined-brain-even-body/>

Principles of **quantum** physics may explain how the **mind** processes information. Meijer believes that our consciousness could be sharing information with the brain through **quantum entanglement**. **Quantum entanglement** is a phenomenon in which particles appear to be connected **over** vast distances.

### [A classic quantum test could reveal the ... - New Scientist](#)

 <https://www.newscientist.com/article/2131874-a-classic-quantum-test-could-reveal-the-limits-of-the-human-mind/>

The boundary between **mind** and **matter** could be tested using a new twist on a well-known experiment in **quantum** physics. **Over** the past two decades, a type of experiment known as a Bell test has ...

### [Consciousness, Hidden Knowledge, Mind over Matter, Quantum ...](#)

 <https://www.youtube.com/watch?v=kvOMgGVnGv8>

Category Education; Song Rocky Mountain High; Artist John Denver; Album A Song's Best Friend: The Very Best of John Denver; Licensed to YouTube by

### [Spooky Quantum Entanglement Created in Everyday Objects](#)

 <https://www.popularmechanics.com/technology/gadgets/a7355/spooky-quantum-entanglement-created-in-everyday-objects-6606439/>

**Quantum entanglement** is one of those strange facets of **quantum** mechanics that produces baffling behaviors in objects at the **quantum** level, but isn't easy to find in our everyday world that appears ...

### [Quantum Approaches to Consciousness \(Stanford Encyclopedia of ...](#)

 <https://plato.stanford.edu/entries/qt-consciousness/>

The dual-aspect **quantum** approaches discussed in the present section tend to focus on the issue of a generalized **mind-matter "entanglement"** more than on state reduction. The primary purpose here is to understand correlations between mental and material domains rather than direct causally efficacious interactions between them.

### [The strange link between the human mind and quantum physics - BBC](#)

 [www.bbc.com/earth/story/20170215-the-strange-link-between-the-human-mind-and-quantum-physics](http://www.bbc.com/earth/story/20170215-the-strange-link-between-the-human-mind-and-quantum-physics)

The strange link between the human **mind** and **quantum** physics. ... to be a characteristic of wave behaviour **over** 200 years ago, well before **quantum** theory existed. ... with their **entanglement**.

### [Quantum entanglement - Wikipedia](#)

 [https://en.wikipedia.org/wiki/Quantum\\_entanglement](https://en.wikipedia.org/wiki/Quantum_entanglement)

**Quantum entanglement** is a label for the observed physical phenomenon that occurs when pairs or groups of particles are generated, interact, or share spatial proximity in ways such that the **quantum** state of each particle cannot be described independently of the state of the others, even when the particles are separated by a large distance.

### [Stuart Hameroff - Quantum Consciousness & Mind Over Matter ...](#)

 [https://www.youtube.com/watch?v=5\\_w39gHqF3Q](https://www.youtube.com/watch?v=5_w39gHqF3Q)

Stuart Hameroff - **Quantum** Consciousness & **Mind Over Matter** Lectures Beyond Beyond. ... **Entanglement**, Space-Time Wormholes, ... **Quantum** Information and the Brain - Duration: ...

### [Quantum Entanglement Between Matter And Light Sent Over 50 Km ...](#)

 [www.message-to-eagle.com/quantum-entanglement-between-matter-and-light-sent-over-50-km-of-optical-fiber/](http://www.message-to-eagle.com/quantum-entanglement-between-matter-and-light-sent-over-50-km-of-optical-fiber/)

Envisioned **quantum** networks use light to distribute **entanglement** between their remote **matter**-based **quantum** nodes..." researchers write in their paper. The **quantum** internet promises absolutely tap-proof communication and powerful distributed sensor networks for new science and technology.

### [Weird! Quantum Entanglement Can Reach into the Past | Live ...](#)

 <https://www.livescience.com/19975-spooky-quantum-entanglement.html>

Spooky **quantum entanglement** just got spookier. **Entanglement** is a weird state where two particles remain intimately connected, even when separated **over** vast distances, like two dice that must always ...

### [The Quantum Experiment that Broke Reality | Space Time | PBS ...](#)

 <https://www.youtube.com/watch?v=p-MNSLsjjdo>

The double slit experiment radically changed the way we understand reality. To check out any of the lectures available from The Great Courses Plus go to <http://www.greatcourses.com>

### [Quantum Entanglement and Mind Body Dualism | Christian Forums](https://www.christianforums.com/threads/quantum-entanglement-and-mind-body-dualism.7678366/)

 <https://www.christianforums.com/threads/quantum-entanglement-and-mind-body-dualism.7678366/>

**Quantum entanglement** - Wikipedia, the free encyclopedia BTW I'm not a fan of the **mind** body dualism idea myself I was just interested in finding out if the example of **quantum entanglement** has been brought into service of the theory.

### [New Experiments Show Consciousness Affects Matter ~ Dean ...](https://www.youtube.com/watch?v=nRSBaq3vAeY)

 <https://www.youtube.com/watch?v=nRSBaq3vAeY>

New Experiments Show Consciousness Affects **Matter** ~ Dean Radin, PhD ... **Quantum Entanglement** and the Great Bohr-Einstein Debate ... Learn How To Control Your **Mind** (USE This To BrainWash Yourself) ...

### [Love, quantum physics and 'entanglement'](https://www.pri.org/stories/2017-07-25/love-quantum-physics-and-entanglement)

 <https://www.pri.org/stories/2017-07-25/love-quantum-physics-and-entanglement>

It does seem crazy, even to some of the best brains in the world — **quantum entanglement** seems a phenomenon more emotional than physical, an attraction more of **mind** than **matter**.

### [Quantum Entanglement Connects Particles Across Any Distance](https://curiosity.com/topics/quantum-entanglement-connects-particles-across-any-distance-curiosity/)

 <https://curiosity.com/topics/quantum-entanglement-connects-particles-across-any-distance-curiosity/>

**Quantum entanglement** is one of the delightfully bizarre phenomena that underpins **quantum** mechanics. The basic idea behind it is that two particles can be linked to each other—that is, affect each other's **quantum** states — **over** any distance, even if that distance is the diameter of the universe.

### [Consciousness and Quantum Entanglement](https://arxiv.org/pdf/1705.0328v1.pdf)

 [vixra.org/pdf/1705.0328v1.pdf](https://arxiv.org/pdf/1705.0328v1.pdf)

A **quantum** case of **mind over matter**? New research proposes a way to test whether **quantum entanglement** is affected by consciousness. **Quantum entanglement** is a concept so counter-intuitive that Albert Einstein called "spooky" — and it may be even spookier than he thought.

### [Quantum Physics Explains Coincidences?](https://www.theepochtimes.com/quantum-physics-explains-coincidences_1422182.html)

 [https://www.theepochtimes.com/quantum-physics-explains-coincidences\\_1422182.html](https://www.theepochtimes.com/quantum-physics-explains-coincidences_1422182.html)

Martin and Carminati say that synchronicity cannot be explained by classical physics. They look to **quantum entanglement** for an explanation of the connection between **mind** and **matter** and between the ...

### [Does Quantum Entanglement has impact on mind and thoughts ...](#)

 <https://www.quora.com/Does-Quantum-Entanglement-has-impact-on-mind-and-thoughts>

The **mind** and thought are not physical entities, just as a disk operating system and data entries are not physical entities. The **mind** is a state of the brain and thoughts are states of neurons in the brain, just as a disk operating system is a state o...

### [SEVEN USES FOR QUANTUM ENTANGLEMENT - quantum tantra](#)

 [quantumtantra.com/entangle.html](http://quantumtantra.com/entangle.html)

**MIND OVER MATTER** Eberhard's Proof shows that altho Earth and Pluto may be instantly connected in Reality, it is impossible in the world of Appearance using current physical processes to send faster than light messages via the **quantum entanglement** channel. However suppose we introduce processes that lie outside of conventional physical measurements.

### [Materialism alone cannot explain the riddle of consciousness ...](#)

 <https://aeon.co/essays/materialism-alone-cannot-explain-the-riddle-of-consciousness>

Materialism holds the high ground these days in debates **over** that most ultimate of scientific questions: the nature of consciousness. When tackling the problem of **mind** and brain, many prominent researchers advocate for a universe fully reducible to **matter**.

### [Quantum Entanglement The Universal Consciousness](#)

 [www.venerabilisopus.org/en/writings/pdf/0/32\\_quantum-entanglement-the-universal-consciousness.pdf](http://www.venerabilisopus.org/en/writings/pdf/0/32_quantum-entanglement-the-universal-consciousness.pdf)

yogis, sages, and shamans have been transcending the local **mind** and accessing nonlocal Unity Consciousness for millennia. The property of **quantum entanglement** is clear evidence in support of Unity Consciousness. It demonstrates that the world of form (space-time) is preceded by a "behind the scenes" **mind**.

### [Distance record for light/matter quantum entanglement](#)

 <https://newatlas.com/physics/new-distance-record-quantum-entanglement-light-matter/>

The spooky world of **quantum** mechanics might someday make for a faster and more secure internet. Now a study makes strides towards that future with a new distance record for **quantum entanglement** ...

### [Proof of Mind Over Matter The Double Slit Experiment Physics ...](#)

 <https://www.youtube.com/watch?v=hCega82glAI>

Proof of **Mind Over Matter** The Double Slit Experiment Physics Dr **Quantum** 1 Greene Ernest. ... **Quantum Entanglement** and the Great Bohr-Einstein Debate ...

## [The Physics of Our Entanglements - Spirituality & Health](#)

 <https://spiritualityhealth.com/articles/2012/01/28/physics-our-entanglements>

Common psi experiences include **mind-to-mind** connections (telepathy), perceiving distant objects or events (clairvoyance), perceiving future events (precognition), and **mind-matter** interactions (psychokinesis). Psi may also be involved in intuitive hunches, gut feelings, distant healing, the power of intention, and the sense of being stared at.

## [Scientists Have an Experiment to See If the Human Mind Is ...](#)

 <https://futurism.com/scientists-have-an-experiment-to-see-if-the-human-mind-is-bound-to-the-physical-world>

Scientists Have an Experiment to See If the Human **Mind** Is Bound to the Physical World. ... also known as **quantum entanglement**. ... the **mind-matter** duality, "[where] the **mind** is outside ...

## [Quantum Theory: Entering the "digital age" of physics and ...](#)

 <https://www.metaphysics-for-life.com/quantum-theory.html>

**Quantum** Theory and **Quantum** Physics help explain the relationship between **Mind** and **Matter**. As science continues to explore the true nature of physical reality, new subsets of physics - such as **quantum** theory, **quantum** mechanics, and **quantum** physics - arise in an attempt to explain the behavior of **matter** at subatomic levels.

## [If Quantum Entanglement Is Weird To You - Entangled Time Will ...](#)

 <https://www.collective-evolution.com/2018/05/08/if-quantum-entanglement-is-weird-to-you-entangled-time-will-blow-your-mind/>

So, things in this area are definitely getting exciting, but **quantum entanglement** is not just something we've seen despite the "distance" between objects, but, it's also something we've seen regardless of time... If that makes any sense. This kind of thing is so **mind** altering that Einstein called it "spooky."

## [Entangled Quantum Particles Can "Communicate" Through Time](#)

 <https://curiosity.com/topics/entangled-quantum-particles-can-communicate-through-time-curiosity>

In the **quantum** world, those rules go out the window. Take **quantum entanglement**, for example. You can make two **quantum** particles interact, then put them at opposite ends of the universe, and measure one. Whatever measurement you get, the other particle takes on a corresponding quality instantaneously, no **matter** the distance.

## [Quantum Entanglement and the Philosophy of Relations - Jaina ...](#)

 <https://www.esamskriti.com/e/Spirituality/Science-ad-Indian-Wisdom/Quantum-Entanglement-and-the-Philosophy-of-Relations-~-Jaina-Perspective-1.aspx>

**Quantum entanglement** is a property of a **quantum** state consisting of two or more microscopic objects like photons, electrons, neutrons etc. The objects producing the joint state i.e., entangled state is not separable but makes a non-local connection between the objects separated by arbitrary distance.

### [The Applications of Quantum Entanglement | Data Driven Investor](#)

 <https://www.datadriveninvestor.com/2019/06/20/quantum-entanglement/>

If you tickle one...both will laugh, applications of **quantum entanglement**. The Red Thread of Fate. **Quantum** mechanics (QM; also known as **quantum** physics, **quantum** theory, the wave mechanical model, or matrix mechanics) is a fundamental theory in physics, which describes nature at the smallest scales of energy levels of atoms and subatomic particles.

### [Quantum Weirdness Now a Matter of Time - Quanta Magazine](#)

 <https://www.quantamagazine.org/time-entanglement-raises-quantum-mysteries-20160119>

To understand **entanglement** in time, it helps to first understand **entanglement** in space, as the two are closely related. In the spatial version of a classic **entanglement** experiment, two particles, such as photons, are prepared in a shared **quantum** state, then sent flying in different directions.

### [No Fear of the Future: Quantum entangled prayer?](#)

 <https://nofearofthefuture.blogspot.com/2009/05/quantum-entangled-prayer.html>

By invoking the decidedly SFnal phrase **quantum entanglement**. ... **over** with energy. ... of a conscious and intelligent **mind**. The **mind** is the matrix of all **matter** ...

### [Quantum weirdness: What we call 'reality' is just a state of mind](#)

 <https://www.theguardian.com/science/blog/2009/mar/17/templeton-quantum-entanglement>

A lifetime studying **quantum** mechanics has convinced Bernard d'Espagnat that the world we perceive is merely a shadow of the ultimate reality ... while not a purely **mind**-made construct as radical ...

### [Entanglement Made Simple | Quanta Magazine](#)

 <https://www.quantamagazine.org/entanglement-made-simple-20160428>

The rules connecting wave functions to physical probabilities introduce very interesting complications, as we will discuss, but the central concept of entangled knowledge, which we have seen already for classical probabilities, carries **over**. Cakes don't count as **quantum** systems, of course, but **entanglement** between **quantum** systems arises ...

### [Spooky Action at a Distance | NOVA | PBS](#)

 <https://www.pbs.org/wgbh/nova/article/spooky-action-distance/>

To be sure, if we are **over** here we can influence someone **over** there, but no **matter** how we do it, the procedure always involves someone or something traveling from here to there, and only when the ...

### [Quantum Physics, Spirituality And Your Thoughts, Beliefs and ...](#)

[www.abundance-and-happiness.com/quantum-physics.html](http://www.abundance-and-happiness.com/quantum-physics.html)

Now, understanding the basics of **Quantum** Physics and **Quantum** Mechanics, all that you need to do to implement that infinite kind of power into your life is to, first of all, develop the belief that it's true (and based on my understanding, perception and experiences thus far, it is) and second begin to "consciously" put it to work in your own ...

### [Quantum Entanglement and Matthew 18 | Christian Forums](#)

<https://www.christianforums.com/threads/quantum-entanglement-and-matthew-18.7788735/>

Before I show you **quantum entanglement** in Matthew 18, I need to prepare you to see what I show. The concept is very simple to understand if you have even a slight understanding of physics. The Image and Copy Genesis 1:27 So God created mankind in his own image, in the image of God he created them;

### [Quantum teleportation - Wikipedia](#)

[https://en.wikipedia.org/wiki/Quantum\\_teleportation](https://en.wikipedia.org/wiki/Quantum_teleportation)

**Quantum** teleportation is a process in which **quantum** information (e.g. the exact state of an atom or photon) can be transmitted (exactly, in principle) from one location to another, with the help of classical communication and previously shared **quantum entanglement** between the sending and receiving location.

### [Quantum Information Meets Quantum Matter | SpringerLink](#)

<https://link.springer.com/book/10.1007/978-1-4939-9084-9>

This book approaches condensed **matter** physics from the perspective of **quantum** information science, focusing on systems with strong interaction and unconventional order for which the usual condensed **matter** methods like the Landau paradigm or the free fermion framework break down.

### [Quantum Entanglement Verified: Why Space Is Just The ...](#)

<https://www.collective-evolution.com/2015/05/03/quantum-entanglement-verified-why-space-is-just-the-construct-that-gives-the-illusion-of-separate-objects/>

Either possibility is **mind** altering. In **quantum** mechanics, one or more particles can be described as a wavefunction that spreads **over** extremely large distances, but never detected in two or more places. Nonlocality refers to measurements that are made at the smallest, microscopic levels.

### [How Quantum Entanglement May Be The Key To 'Long Distance ...](#)

<https://www.collective-evolution.com/2018/04/02/how-quantum-entanglement-may-be-the-key-to-long-distance-space-travel/>

In doing so, researchers were able to verify the **entanglement** of the split single photon. Researchers have since replicated this experiment **over** and **over** again, with results of **entanglement** seen at kilometres of distance. Below is a great visual depiction of what **quantum entanglement** from the film, "What The Bleep Do We Know."

### [Does Awareness create a quantum entanglement?](#)

 <https://www.godlikeproductions.com/forum1/message4054462/pg1>

Well, here's why I think the connection resides: **Quantum entanglement** implicates **matter** that has been part of the same whole and later has been parted, can remain connected through time and space by the **quantum** bond of the electron spin that this **matter** shares, in a way that if you interact with a piece of that **matter** in a way that changes its ...

### [A new theory based on quantum entanglement says your mind ...](#)

 <https://alien-ufo-sightings.com/2019/06/a-new-theory-based-on-quantum-entanglement-says-your-mind-exists-in-another-dimension-2/>

Principles of **quantum** physics may explain how the **mind** processes information. Meijer believes that our consciousness could be sharing information with the brain through **quantum entanglement**. **Quantum entanglement** is a phenomenon in which particles appear to be connected **over** vast distances.

### [How does quantum entanglement affect the human body? - Quora](#)

 <https://www.quora.com/How-does-quantum-entanglement-affect-the-human-body>

"**Quantum entanglement**" is now a popular concept. More often, however, people are referring to **quantum** effects in general. These are rife throughout nature and in the human body.

### [A New Theory Based on Quantum Entanglement Says Your Mind ...](#)

 <https://alien-ufo-sightings.com/2018/06/a-new-theory-based-on-quantum-entanglement-says-your-mind-exists-in-another-dimension/>

It thus seems the **mind** is more than just neurons firing in the brain. Neuroscientists are still searching for a mechanism for this "binding" of disparate parts of the brain's information processing. Meijer has turned to **quantum entanglement** and tunneling for part of the answer.

### [Quantum Entanglement: What It Is And Why It's Relevant ...](#)

 <https://www.collective-evolution.com/2013/01/20/quantum-entanglement-what-it-is-and-why-its-relevant/>

**Quantum entanglement** is when two particles act together in an entangled system. This means that they behave like one object even though they are physically apart. It suggests that space is just the construct that gives the illusion that there are separate objects.

## [Untangling "Quantum Entanglement" In Health Care... - BolenReport](#)

 <https://bolenreport.com/untangling-quantum-entanglement-in-health-care/>

In science - "**Quantum** physics is a field of study that defies common sense at every turn, and **quantum entanglement** might lead the way in the defying common sense department. **Entanglement** is the unusual behavior of elementary particles where they become linked so that when something happens to one, something happens to the other; no **matter** ...

## [Quantum entanglement - sciencedaily.com](#)

 [https://www.sciencedaily.com/terms/quantum\\_entanglement.htm](https://www.sciencedaily.com/terms/quantum_entanglement.htm)

**Quantum entanglement** is a **quantum** mechanical phenomenon in which the **quantum** states of two or more objects have to be described with reference to each other, even though the individual objects may ...

## [QUANTUM-ENTANGLEMENT Soul Interaction](#)

 <https://www.quantum-physics-spirituality.com/Quantum-Entanglement.html>

It is also true that the thoughts that this individual soul chooses to believe will attract energy out of the **Quantum** Ocean, **Mind** of God into his/her aura. **Quantum-Entanglement**. The energies one carries in one's aura attracts one's physical reality. What needs to be better understood is Spiritual **Quantum Entanglement**.

## [The Atlantean Conspiracy: Nonlocality and Quantum Entanglement](#)

 [www.atlanteanconspiracy.com/2012/10/nonlocality-and-quantum-entanglement.html](http://www.atlanteanconspiracy.com/2012/10/nonlocality-and-quantum-entanglement.html)

Another two **mind**-bending, paradigm-shattering findings in the new physics are known as "Non-Locality" and "**Quantum Entanglement**." In classical physics, objects were seen as localized and isolated from one another within space; through dozens of replicated and verified experiments we now know ...

## [Time-Entanglement Between Mind and Matter](#)

 [https://www.researchgate.net/publication/279265588\\_Time-Entanglement\\_Between\\_Mind\\_and\\_Matter](https://www.researchgate.net/publication/279265588_Time-Entanglement_Between_Mind_and_Matter)

Moreover one can possibly see synchronistic events between the mental and the material domains as a consequence of a **quantum entanglement** between **mind** and **matter** (Primas, 2003). For us mental and ...

## [Is it possible soulmates in the mind are caused by quantum ...](#)

 <https://www.quora.com/Is-it-possible-soulmates-in-the-mind-are-caused-by-quantum-entanglement-How-do-physicists-think-about-this>

I am a physicist and I can't tell you how many times a week, people untrained in science whatsoever, come to me with this "revolutionary" idea of how **quantum** physics works.

### [Just One God: Chapter-3: Quantum Entanglement](https://justonegod.blogspot.com/2015/04/chapter-3-quantum-entanglement.html)

 <https://justonegod.blogspot.com/2015/04/chapter-3-quantum-entanglement.html>

**Quantum Entanglement** (QE) or the God Effect is the working mechanism of the Higgs boson or the God particle, because it's so fundamental. **Quantum Entanglement** is at the heart of understanding how significant events across the universe operate at the macro- and micro- level in split-second synchronicity despite considerable distance between them.

### [Quantum Entanglement — Center for Action and Contemplation](https://cac.org/quantum-entanglement-2019-08-30/)

 <https://cac.org/quantum-entanglement-2019-08-30/>

Scientists don't know how far this phenomenon applies beyond very rare particles, but **quantum entanglement** hints at a universe where everything is in relationship, in communion, and also where that communion can be resisted ("sin"). Both negative and positive **entanglement** in the universe **matter**, maybe even ultimately **matter**.

### [Quantum Entanglement in Physics - ThoughtCo](https://www.thoughtco.com/what-is-quantum-entanglement-2699355)

 <https://www.thoughtco.com/what-is-quantum-entanglement-2699355>

**Quantum entanglement** is one of the central principles of **quantum** physics, though it is also highly misunderstood. In short, **quantum entanglement** means that multiple particles are linked together in a way such that the measurement of one particle's **quantum** state determines the possible **quantum** states of the other particles.

### [Routing entanglement in the quantum internet | npj Quantum ...](https://www.nature.com/articles/s41534-019-0139-x)

 <https://www.nature.com/articles/s41534-019-0139-x>

We develop protocols for such **quantum** "repeater" nodes, which enable a pair of users to achieve large gains in **entanglement** rates **over** using a linear chain of **quantum** repeaters, by exploiting ...

### [Opinion | Is Quantum Entanglement Real? - The New York Times](https://www.nytimes.com/2014/11/16/opinion/sunday/is-quantum-entanglement-real.html)

 <https://www.nytimes.com/2014/11/16/opinion/sunday/is-quantum-entanglement-real.html>

FIFTY years ago this month, the Irish physicist John Stewart Bell submitted a short, quirky article to a fly-by-night journal titled Physics, Physique, Fizika. He had been too shy to ask his ...

### [Quantum Entanglement - The Universal Consciousness | Ancient ...](http://www.venerabilisopus.org/en/writing/quantum-entanglement-the-universal-consciousness)

 [www.venerabilisopus.org/en/writing/quantum-entanglement-the-universal-consciousness](http://www.venerabilisopus.org/en/writing/quantum-entanglement-the-universal-consciousness)

**Quantum Entanglement** The Universal Consciousness. **Quantum Entanglement**. The Universal Consciousness . Jason Lincoln Jeffers . Einstein once said, "The most incomprehensible thing about the

world is that it is comprehensible." What if science, philosophy, and spirituality have been on tangential paths in their pursuit of the truth about creation, each one stemming from distinct perceptions ...

### [Functional quantum internet just got a step closer to reality ...](#)

 <https://www.universal-sci.com/headlines/2019/9/27/functional-quantum-internet-just-got-a-step-closer-to-reality>

It is still early days with regards to a worldwide **quantum** internet, but it is clear that scientists are making significant strides in this area. Sources and further reading: **Light-matter entanglement over 50 km of optical fiber** / Quantum network / **Quantum entanglement** / U.S. Army Research Laboratory press release

### [Light-matter entanglement over 50 km of optical fibre | npj ...](#)

 <https://www.nature.com/articles/s41534-019-0186-3>

**Light-matter entanglement over 50 km of optical fibre** ... A current goal is to significantly scale up the distance **over** which **quantum matter** can be entangled to a 100 km or more, which are ...

### [A quantum origin for spacetime](#)

 <https://www.knowablemagazine.org/article/physical-world/2019/quantum-origin-spacetime>

In any case, investigations along these lines have revealed a surprising possibility: Spacetime itself may be generated by **quantum** physics, specifically by the baffling phenomenon known as **quantum entanglement**. As popularly explained, **entanglement** is a spooky connection linking particles separated even by great distances.

### [Entanglement sent over 50 km of optical fiber](#)

 <https://phys.org/news/2019-08-entanglement-km-optical-fiber.html>

More information: V. Krutyanskiy et al, **Light-matter entanglement over 50 km of optical fibre**, npj **Quantum Information** (2019). DOI: 10.1038/s41534-019-0186-3 Provided by University of Innsbruck

### [Quantum Internet Is One Step Closer to Reality With U.S. Army ...](#)

 <https://scitechdaily.com/quantum-internet-is-one-step-closer-to-reality-with-us-army-research-breakthrough/>

Researchers at the University of Innsbruck, funded by the US Army, achieved a record for the transfer of **quantum entanglement** between **matter** and light — a distance of 50 kilometers was covered using fiber optic cables. Researchers said this brings the **quantum** internet a step closer.

### [Everything Worth Knowing About ... Entanglement ...](#)

 [discovermagazine.com/2016/jul-aug/entanglement](https://discovermagazine.com/2016/jul-aug/entanglement)

It's not just a quirk of physics. **Over** the years, **entanglement** has inspired a slew of new technologies still under development. Distance records set for **entanglement** may pave the way to a **quantum** version of the Internet in which information hops from place to place via pairs of entangled particles.

### [Origin of Consciousness: Can the Quantum Mind Explain It](#)

 <https://humanoriginproject.com/quantum-mind-explains-origin-consciousness/>

The **quantum mind** may even act as a universal matrix of consciousness. Alongside multi-dimensional theories of **quantum** physics such as string theory, suggests there are up to eleven dimensions. **Matter**, it states, exists in string like states bound in tiny extra dimensions.

### [How Quantum Physics Helps me Appreciate the Power of my Mind ...](#)

 <https://www.elephantjournal.com/2017/04/how-quantum-physics-helps-me-appreciate-the-power-of-my-mind/>

Our **minds** have no control **over** events. **Quantum** Physics: Energy and **matter** are related. Einstein then undermined the entire foundation of Newton's work and ushered in the new era of **quantum** physics by declaring that time and space were relative—not absolute, as scientists had believed before the introduction of his theory of relativity.

### [Quantum Entanglement Explained - Universe Today](#)

 <https://www.universetoday.com/109525/quantum-entanglement-explained/>

Wondering how particles can instantly communicate with each other no **matter** what the distance? **Quantum** physics is a field of study that defies common sense at every turn, and **quantum entanglement** ...

### [Quantum Physics News -- ScienceDaily](#)

 [https://www.sciencedaily.com/news/matter\\_energy/quantum\\_physics/](https://www.sciencedaily.com/news/matter_energy/quantum_physics/)

A **quantum** gas can be tied into knots using magnetic fields. The same researchers who were the first to produce these knots have now studied how the knots behave **over** time. The ...

### [A 50-Km Quantum Transmission Over Fiber | Optics & Photonics News](#)

 [https://www.osa-opn.org/home/newsroom/2019/september/a\\_50-km\\_quantum\\_transmission\\_over\\_fiber/](https://www.osa-opn.org/home/newsroom/2019/september/a_50-km_quantum_transmission_over_fiber/)

The **entanglement** was still in place after 20 ms, the longest time measured in the experiments—good news for future experiments involving transmission **over** even longer distances. The researchers say that their work could be easily extended to a 100-km pipeline of **quantum entanglement** transmission and eventually to multi-mode **quantum** networking.

### [If You Thought Quantum Mechanics Was Weird, Check Out ...](#)

<https://www.sciencealert.com/if-you-thought-quantum-mechanics-was-weird-check-out-entangled-time>

It is only a frame-specific property, a choice among many alternative but equally viable ones - a **matter** of convention, or record-keeping. The lesson carries **over** directly to both spatial and temporal **quantum** nonlocality. Mysteries regarding entangled pairs of particles amount to disagreements about labelling, brought about by relativity.

### **Quantum Relationship: Keeping Your Love Connected ...**

<https://www.psychologytoday.com/us/blog/shift-mind/201612/quantum-relationship-keeping-your-love-connected>

A **quantum** approach to sustaining your love life. The experience of falling in love is altogether reminiscent of what in **quantum** physics is known as **entanglement**.

### **Coming to Grips with the Implications of Quantum Mechanics ...**

<https://blogs.scientificamerican.com/observations/coming-to-grips-with-the-implications-of-quantum-mechanics/>

Coming to Grips with the Implications of **Quantum** Mechanics. The question is no longer whether **quantum** theory is correct, but what it means

### **Untangling Quantum Entanglement — Caltech Magazine**

<https://magazine.caltech.edu/post/untangling-entanglement>

The perplexing phenomenon of **quantum entanglement** is central to **quantum** computing, **quantum** networking, and the fabric of space and time. By Whitney Clavin The famous "Jim twins," separated soon after birth in the 1940s, seemed to live parallel lives even though they grew up miles apart in complete

### **You thought quantum mechanics was weird: check out ... - Aeon**

<https://aeon.co/ideas/you-thought-quantum-mechanics-was-weird-check-out-entangled-time>

If two **quantum** systems meet and then separate, even across a distance of thousands of lightyears, it becomes impossible to measure the features of one system (such as its position, momentum and polarity) without instantly steering the other into a corresponding state. Up to today, most experiments have tested **entanglement over** spatial gaps.

### **Quantum Effects in the Brain and the Mind | Jon Lieff M.D.**

[jonlieffmd.com/blog/human-brain/could-the-brain-and-mind-be-a-quantum-computer-quantum-effects-in-brain-and-mind](http://jonlieffmd.com/blog/human-brain/could-the-brain-and-mind-be-a-quantum-computer-quantum-effects-in-brain-and-mind)

It is tempting to try to explain **mind** through **quantum** mechanisms - very tiny effects in the molecules of the brain - because **matter** and energy, below a certain size, seem to have some similar characteristics.

### [Quantum "spooky action at a distance" travels at least 10,000 ...](#)

 <https://newatlas.com/quantum-entanglement-speed-10000-faster-light/26587/>

**Quantum entanglement**, one of the odder aspects of **quantum** theory, links the properties of particles even when they are separated by large distances. ... so **over** time all polarization directions ...

### [How Spacetime Is Built By Quantum Entanglement | Awaken](#)

 <https://www.awaken.com/2017/03/how-spacetime-is-built-by-quantum-entanglement/>

Depicted by the red point, are expressed in terms of **quantum entanglements**, depicted by the blue domes. A collaboration of physicists and a mathematician has made a significant step toward unifying general relativity and **quantum** mechanics by explaining how spacetime emerges from **quantum entanglement** in a more fundamental theory.

### [The World's Biggest Quantum Entanglement Experiment Proved ...](#)

 <https://curiosity.com/topics/the-worlds-biggest-quantum-entanglement-experiment-proved-einstein-wrong-curiosity/>

You know you've made an impact on the world when people are still testing your ideas six decades after your death. Einstein was no fan of the concept known as **quantum entanglement** and believed that any explanation for it had to involve some other variables we just don't know about yet.

### [European Physicists Just Tested Quantum Entanglement in ...](#)

 <https://www.sciencealert.com/european-physicists-just-tested-quantum-entanglement-in-massive-clouds-of-atoms>

Understanding and harnessing **quantum** effects, such as **entanglement**, will allow new technologies to be developed that have capabilities beyond anything we possess today. This is why there is so much excitement behind research in the field of **quantum** technology and why the advancements made in this new research are so important.