Paper first semester Holographic Principle of the universe and consciousness

In Nature, we find patterns, designs and structures repeating from the microscopic dimension to the macroscopic dimension. These inevitably follow geometrical archetypes, witch reveal to us the nature of each form and it’s vibrational resonances . They are also symbolic of the underlying metaphysical principle of the inseparable relationship of the part to the whole. It is this principle of oneness underlying all geometry that permeates the architecture of all form in its myriad diversity. This principle of interconnectedness, inseparability and union provides us with a continuous reminder of our relationship to the whole, a blueprint to the sacred foundation of all things created.
Sacred geometry may be understood as a worldview of pattern recognition, a complex system of religious symbols and structures involving space, time and form. According to this view the basic patterns of existence are perceived as sacred. By studying the nature of these patterns, forms and relationships and their connections, insight may be gained into the mysteries - the laws and lore of the Universe.

Law means a rule or a collection of rules. It is also a universal principle that describes something’s fundamental nature. Like the laws of physics.

Lore is knowledge or tradition passed from generation to generation, usually verbally. We find it in the word folklore.

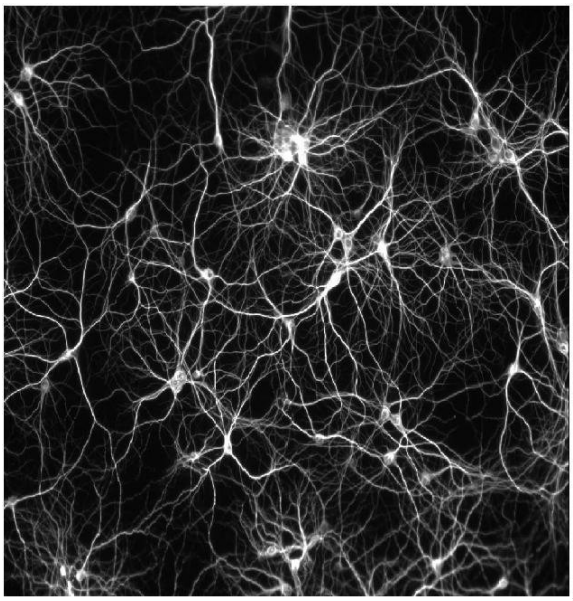
Plato and the allegory of the cave.

In this allegory, people are chained from birth in a cave so that they can only see the shadows which are cast on the walls of the cave by a fire. To these people, the shadows represent the entirety of their existence — it is impossible for them to imagine a reality which consists of anything other than the blurry shadows on the wall. However, one prisoner escapes from the cave, goes out into the light of the sun and beholds true reality. When he tries to go back into the cave and tell the other captives the truth, he’s mocked as a madman.
In Plato’s time, this story symbolized to him mankind's struggle to reach enlightenment and understanding through critical thinking and open-mindedness. Initially, we all are captives in the "cave" of our material world. Just as a prisoner may escape out into the sun, so may some people attain knowledge and ascend to the higher truth. What’s equally astonishing is the literal interpretation of Plato's tale: The idea that reality could be represented completely as “shadows” on the walls. To many people, the *Holographic Principle*, which is reminiscent of Plato's Allegory of the Cave, seems strange and counterintuitive: How could all of the physics which takes place in a given room be equivalent to some physics defined on the walls of the room? Could all

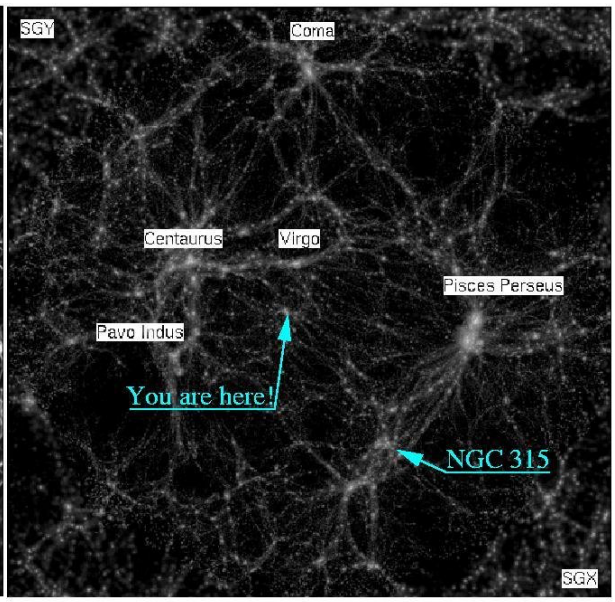
of the information contained in your body actually be represented by your “shadow'?

The idea that our world may be a hologram comes from black hole physics. In the 1970s researchers knew that when an object falls into a black hole, all the detailed information about that object is lost. This was dubbed the *Black Hole Information Paradox*, and it turned out to be a “battleground” debate between renowned physicists Stephen Hawking and Leonard Susskind that lasted for decades. The Information Paradox seemed to contradict the Second Law of Thermodynamics, because one of the lost details was the object's entropy, or the information describing its microscopic parts. Susskind insisted that no information that goes into a black hole can be lost. What eventually offered a resolution to the Information Paradox was the fact that the surface area of the black hole's event horizon (the point of no return for infalling matter and energy) always grows. If entropy must grow, and a black hole's surface area must too, perhaps for the black hole they are one and the same, and information is somehow stored on the horizon.

Holograms are; “photographic recordings of the patterns of interference between coherent light reflected from the object of interest, and light that comes directly from the same source or is reflected by a mirror. When this photo image is illuminated from behind by cohrent light, a three-dimensional image of the object appears in space. The characteristic of a hypothetically perfect hologram is that all its content is contained in any finite part of itself (at lower resolution). Observationally and perceptually, the universe is a hologram and in each part of itself, since all of it can be detected from/in each internal particle.” (Thomas Bearden)



Neurons in the brain.



Galaxies in the Universe.

There are lots of current applications that use holographic technology, but I'll name just a selection of a few of them that kept my personal interest:

Medical doctors can use three-dimensional holographic CAT scans to make measurements without invasive surgery. This technique is also used in medical education.
High resolution spectrometers use holographic gratings.
Biomedical applications of holography is actively pursued in the U.S. and Europe. Holograms are made inside live organs through optical fibers, providing more details than any previous alternate techniques.
Instantaneous growth rate of a live plant can be directly observed through a hologram. Using optical fibers, the rigid body movements can be isolated from the net growth information.
In this video we can see some of its acoustic applications ; https://www.youtube.com/watch?v=z90FPL_PQ2Q

But let's get back on the Holographic Nature of the Universe;

The holographic paradigm is links two concepts that were developed independently:

- That the universe is in some sense a holographic structure — proposed by David Bohm
- That consciousness is dependent on holographic structure — proposed by Karl Pribram

This paradigm posits that theories utilizing holographic structures may lead to a unified understanding of consciousness and the universe.
The holographic paradigm is rooted in the concept that all organisms and forms are holograms embedded within a universal hologram, which physicist David Bohm called the holomovement. It is an extrapolation of the optical discovery of 2-dimensional holograms by Dennis Gabor in 1947. Holography created an explosion of scientific and industrial interest starting in 1948.

We're getting closer to incorporate consciousness as an integral part of the scientific picture of the "physical world". Not only celebrated physicists of the 20th century such as Max Plank, John Wheeler, David Bohm, Niel Bohr, Erwin Schrödinger argued that consciousness is a fundamental property of our Universe but the new pleiad of scientists such as John Hagelin, Sir Roger Penrose, Stuart Hameroff, Guilio Tononi, Christof Koch, Donald Hoffman, Robert Lanza embarked on their quest to put consciousness on the new solid scientific footing and dimensionality.
Naturalism with its Newtonian mechanics and classical interpretation of reality is valid only within its domain of applicability, namely human perceptual reality, whereas quantum theory paints a drastically different picture. As Max Plank once said: "*Science cannot solve the ultimate mystery of nature. And that is because, in the last analysis, we ourselves are a part of the mystery that we are trying to solve.*" Nothing is real for us until perceived, and all we know is

our own inner experience. That's why scientists have to deal with the mystery of how there can be anything but a first-person reality. No matter how you slice it, everything leads back to the conscious observer.

In a Holographic Universe, what do we call reality?
It is interesting to apprehend that, out of the trillions possible experiences available in each split second, our consciousness is always picking one up. Out of an infinite potential of experiences we are only capable to experience one experience at a time.
Everything in the Universe that we perceive is pulsating but translated as continuous by our brain. The Sound is a succession of waves of compressed air and air rarefactions, but we hear it as continuous. The same things happens with consciousness, we perceive very tiny chunks of conscious experiences spaced out by unconscious experiences, but the brain translates it as a continuous conscious experience.
The Universal Laws describe everything as energy. Science tells us that matter is quite literally, packets or waves of information that vibrate. This vibration is produced in the form of amplitude and frequency; oscillations that generate more energy. So your hand or the chair that you are sitting on is nothing but energy and information, it is a vibration.
Quantum physics nowadays states that our whole Universe is composed of 5 % of visible matter, 23% of Dark matter and 72% of Dark energy.
Science used to think that space is empty. Now it is a fact that the space between things is anything but empty, it is so new in science that it has been given multiple names, Quantum Hologram, Nature's Mind (E.Mitchell), Mind of god(S.Hawkins) or the Matrix(M.Plank). Actually Max Plank started pointing out that it is a conscious mind that is being the matrix of all matter. The theory that the movie series Matrix has been inspired from.
Time is an illusion, therefore so is everything else. The universe is a consciousness hologram. Reality is a projected illusion within the hologram. It is a virtual experiment created in linear time to study emotions. Our hologram is composed of grids created by a source consciousness brought into awareness by electromagnetic energy at the physical level. The hologram is created and linked through a web, or grid matrixes based on the patterns of Sacred Geometry.

The understanding that reality, as we consciously experience it, is not real, goes far back in time of the Indigenous people who knew that we exist in a dream or illusion.
Some Sadhus, Monks, Taoists and various communities have a precise understanding of the laws and nature of the Universe.

To illustrate the way we perceive Reality, Indian teachings often use the analogy of waves on an ocean;
The ocean is the unmanifest, Absolute level of reality. Its essential nature never changes; it is alway water. What changes are the waves produced on the

surface.
Shining on the ocean's surface is the sun, the light of pure consciousness. When the oceans is still, it is a perfect mirror, and in some sense invisible, you only see the image that is reflected back.
For most of us, however the mind is never still. It is always being stirred in one way or another by activity in the brain.
The various manifestation of the ocean, the waves on its surface, are only visible by virtue of the light reflected back. Each little wavelet reflects the light in many different directions, producing its own little transformation of the sky above. We don't see the sun anymore, but a pattern that we see as the waves on the surface. In the same manner all the disturbances of our own consciousness together create an image of reality within our mind. We do not experience consciousness itself; only the myriads of manifestations that it takes on.
These interferences on the surface of the ocean that reflects light are what compose the holographic experience we are having of reality.

"What we call empty space contains an immense background of energy, and that matter as we know it is a small, "quantized" wavelike excitation on top of this background, rather like a tiny ripple on a vast sea." - David Bohm

In the Yogic tradition this is how they understand the manifest and the unmanifest.
There is no separation of time and space; because there is time, there can be space, time is the basis of space.
What is unmanifest is called Shi-Va; Witch that is not manifest. But when the unmanifest gets stimulated by even a small amount of energy, referred as Shakti, suddenly it roars out of darkness. As a sound and then as a form. In the tradition it is said that the first form that was ever created was the Lingam. It is black because coming out of the unmanifest or space or darkness and it represents the male energy with the Shiva Lingam inside Shakti's Yoni. When it settles down it takes all the different shapes and forms known to what we call Reality.

Lingam;

It has been reported, that some Masters could be in different places at the same time, come back in their physical form after their death, or create objects at will.
The Gurus transmit Knowledge to their Chilas (disciples) mostly trough literally generating experiences, and very fewer verbally.

Fred Alan Wolf (1991) comments on the possible roots of "shamanic physics" and the holographic concept in relation to two shamanic notions: visionary or mythic reality, and the sense of universal connection.
In brief, according to the transactional interpretation of quantum physics, these invisible quantum waves of probability originate in the present, in the past, and in the future. For any event to manifest, these waves coming from the future and the present or from the past and the present must interfere with each other in the present. The pattern of that interference then creates matter and energy as we perceive them. Somehow shamans were able to see to either the past or the future source of those waves. In this manner they were able to

construct visions that had mythic proportions and appeared to them as archetypes in the Jungian sense.
Speaking of the shaman's sense of a meaningful relationship between any two events, he draws an analogy between the shamanic "spider's web" or web of life and Bohm's holographic universe.
Perhaps the hologram and the spider web are the same thing seen from different cultural viewpoints. A web is made of vibrating threads. A hologram is made from light waves, vibrations of energy...Bohm calls the hologram the implicate order. This order is normally invisible but yet contains all of the possible phenomena that can be experienced. When an experience occurs, the order is changed. This new order he calls the explicate order. Thus what is explicate is what is observed.

The Aborigines of Australia had some extended knowledge as well that I came across with recently.
I have been studying Holographic Kinetics, a healing technic based on a Aboriginal Knowledge known as Dream time Healing, and they used to understand the Universe trough LORE.
For more on the Rules of LORE http://www.red-spirit-energy-healing.com/lore.html

What is Holographic Kinetics; https://www.youtube.com/watch?v=5i4_Mq7YPqU
How S.Richards Founder of Holographic kinetics explains it like this;

When we have a trauma, a shock or hold on and not let go, we trap in energy. This becomes internalization of electrons, that now crystallize at a cellular level.
The similarities of when you crystallize water, it turns to ice and becomes hard and brittle. Just like water these have to go to their equal opposite, the equal opposite to the ice is steam as it transmutes dimensions and creates perfect balance in the form of water droplets. Therefore man must let go and externalize what he has been holding on to for balance.
You have then experienced internalization and externalization creating balance.
When man brings through an issue from the past, this becomes action and when in the present he re-acts to that issue, that action and reaction internalizes energy into expansion and set up the cycles of similarity into the future, from its created beginning until its end will govern its dimension of time, this could go on life time after life time, until externalized back at its creation, contraction to zero.
Spirit in the present must change that created dimension of reality at its juncture, in the past, once time enfolds upon itself, it creates 360 degrees representing completion and time will then loop itself and put you outside that dimension of time, only then will this stop the cycles of similarity from continuing into the future.

Not only within the internal created realities of the mind does time loop itself, but we are discovering time loops in the physical world of reality taking place. The ancestors of the past could step out of time and come back in through another dimension of time.
There are wormholes still active, especially to dimensions of the past genocide, our team have activated those wormholes brought the spirits through a surrogate on the table enfolded space time upon their past trauma, changed the past from ever occurring in the future cycles of time and released the spirits that were stuck earth bound in that trauma. Preventing that from ever occurring in the future cycles of time.

In China

Here is a video of some Chinese Toaist re-creating a new reality inside the physical body of a women.
Her tumor is disappearing in 3 minutes; https://www.youtube.com/watch?v=TesAxbcJjQc.
What Gregg Braden explains on this;
the 3 practitioner don't judge the actual reality. They just take it as a quantum possibility out of an infinity of possibilities. And they decide to choose an other possibility.
First they acknowledge what is, then invite a new possibility rather than adding a charge on what is already there. They acknowledge the possibility instead of hammering the physical reality.
They then change it on the level of the quantum blue print and they are feeling the feeling as if an other possibility occurred. Allowing this possibility to replace the other one without judging the one that exists.

Let me share an experience I had few years ago; This is just referring to a personal experience and some might explain it otherwise.
I have once received this initiation through meditation;
The right hemisphere of the brain, feminine and intuitive and linked to the energy of the earth. The left hemisphere, masculine, analytic, linked to the sun. Those two energies are spiraling inverted currents; one descending and the other one ascending meeting in our heart to manifest as a Taurus. I then experienced the Taurus as a Ying/Yang symbol in 3d movement (it would move in 3d around a center point rather than an axis). The amount of understanding of the relationship between those two symbols go further my ability to write and would request almost a paper on it's own. Moving it into my body it shown me that this energy could be of tremendous healing potential. At that time I just though it was a balancing of feminine and masculine inside my body that could make the energy flow back where it was stuck. By writing all this I am now telling myself that it was also encoding what Gregg Braden explained.

Our lives are manifested by our focus. You see your reality as real because your brain functions as a quantum machine and creates your world through the

five senses of sight, sound, touch, taste and smell. It actually transforms and interprets the energy around you much like a hologram, where you can feel and navigate the 3-dimensional effect.
YOU are a quantum energy machine, and you create your own world by focusing energy; and remember, thoughts and emotions are also energy. What you believe, think about, worry about and keep talking about is what you create more of.

First comes the though, it is the root of manifestation in the unmanifest, picking one possibility up, out of an infinity of possible realities. That though once hold and locked in trough time becomes an intent, we might be aware or not. Once we add our emotions to it, it could be love but it could be fear as well, it roars out to manifestation. Because emotions can be felt in the reality of our body it is the next step to bring that intent further into reality, it is now manifesting into the cells of our body. The union of thought and emotion create our feeling. The though comes from the upper 3 chakras imbued with the emotion of our lower 3 chakras meeting in our heart chakra. The heart is an electromagnetic generator that sends now that energy in the reality outside our body into manifestation into the world.

As Co-creators of our reality we are all awakening to this great responsibility.
In a holographic universe there are no limits to the extent to which we can alter the fabric of reality.
What we perceive as reality is only a canvas waiting for us to draw upon it any picture we want.
Anything is possible.

I feel so much gratitude to be part of this space with such beautiful beings that you all are,
knowing that this is just a little brittle fractal piece of the bigger fractal.
And feeling in my heart that all of us are spreading so many waves of love, peace and unity into manifestation,
to Re-create renewed updates of our reality, entraining every being into ever growing Awareness and Compassion.

Love

Sources and loads more infos on the subject;
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holofractal-principle
http://spiritualphysics.50megs.com/whats_new_25.html
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