

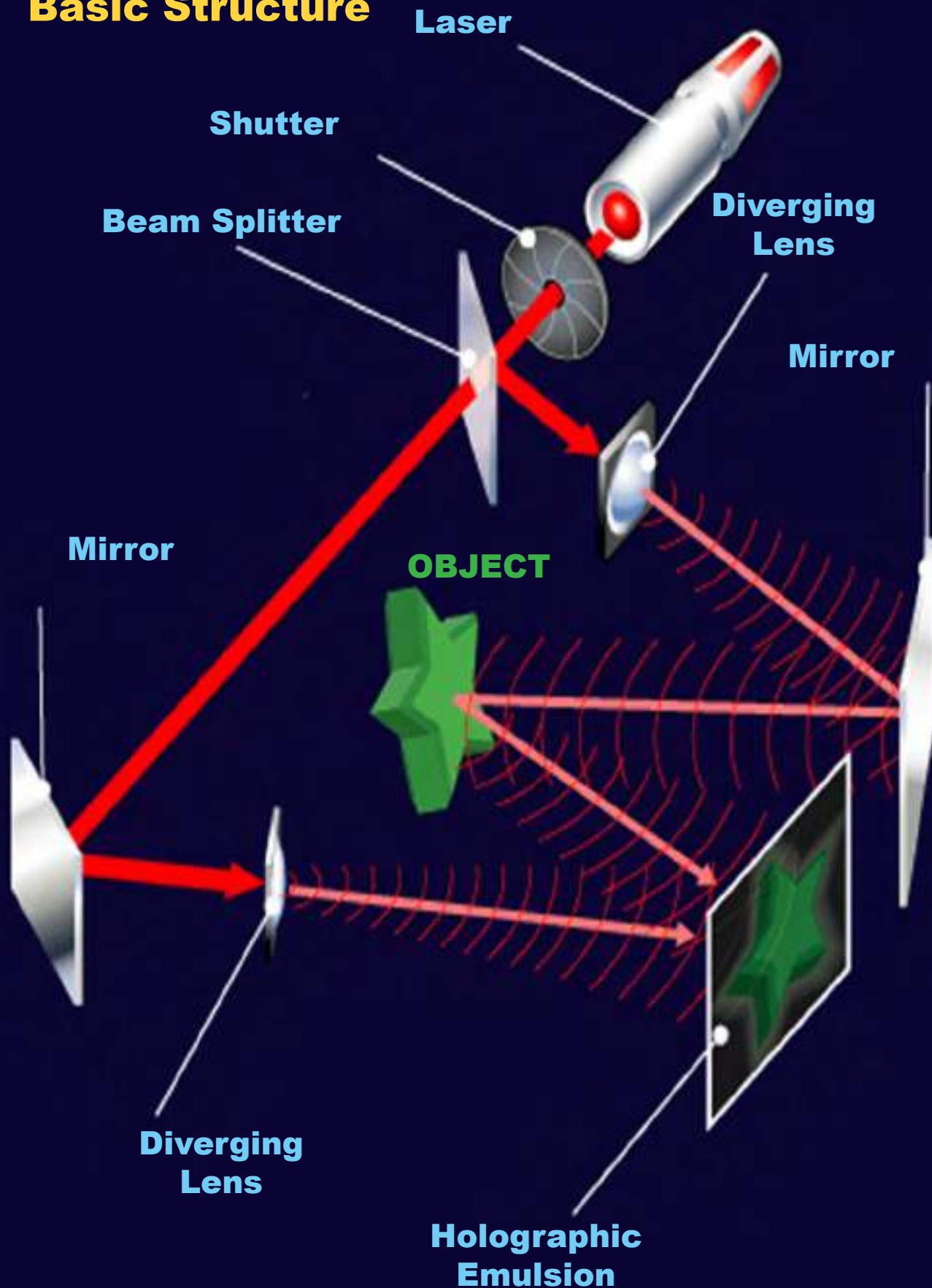


CHAPTER XIV

The Hologram of the Universe

How do Holograms Work?

Basic Structure





Hologram

The hologram is described by a photograph that can with the help of a laser acquire three dimensions. If we take a holographic image and split it in two and then illuminate its two sides with a Laser we will see that each side of the photograph contains the entire photograph.

If we divide a hologram of an object, we will be surprised to see that under laser lighting each piece of the object will contain the whole of the object.

Hologram science began in 1982 when a research group of the University of Paris under the direction of the physicist, Alain Aspect, conducted one of the most significant experiments of the 20th century.

The experiment proved that under appropriate conditions subatomic particles such as electrons can communicate instantly with other subatomic particles at distances from minimal to over 100 billion kilometers.

The question that arose was: How did one particle know what another particle was doing, since a mind-boggling distance

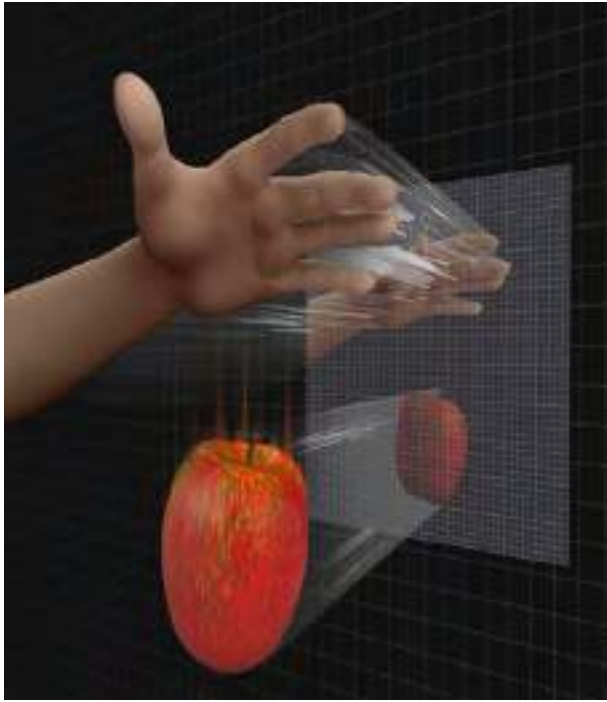
Analogy

The Archimedes Palimpsest revealed the following passage: "If four sets are infinite in number, they are equal to each other".

This is testimony that sets, where they can be seen by observers as infinite, reveal their hidden proportion. In Aristotelian logic, the "analogy proof", is based on the following proposition: 'If some objects or phenomena, may in certain characters be similar, it leads us to the logical conclusion that they must be similar in many others unknown to us'.

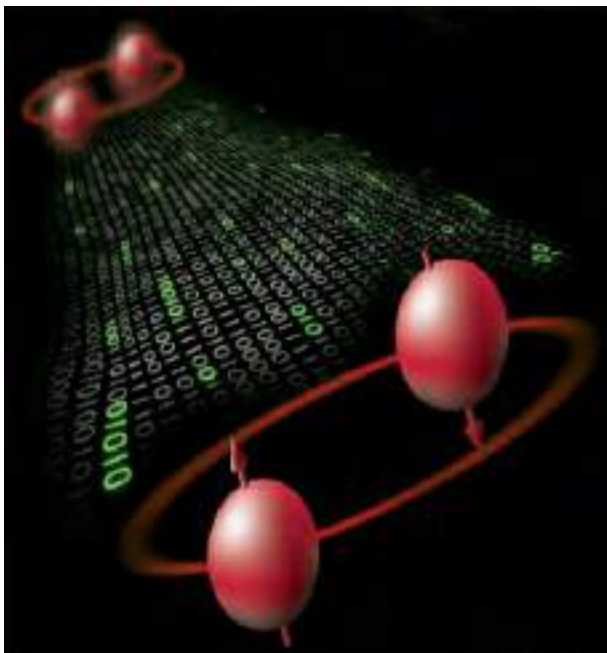
We can say that a concept is analogous, where the signified is not recognized or compared to its essence, but only compare with something else, which is known to us. The analogy conclusion concerning the properties of the world of Infinity, in modern cosmology, is not completely reliable for discovering knowledge, it cannot be demonstrated experimentally, it does not come from consistency, but can be calculated as an analogy.

The degree of certainty of a conclusion is determined, as in induction – the analogy is a kind of induction is - the number and importance of cases on which it is based. The principle of analogical reasoning was applied by Newton when it was shown experimentally that gravity acts the same way to gold, silver, lead, glass, wood and other natural elements, and yielded the conclusion that all other earthly bodies act in the same way. Moral Value in the broadest sense is a counter to evil; it is the Absolute Good, when it can be felt by the human will.



Alain Aspect

separated them? What ‘great mind’ connected the two particles, and more generally the particles of the universe with each other?



... now we discover that between the particles of the subatomic world there exists an intermediate “Bond”...

While Einstein’s relativity Theory excludes the possibility of communication at velocities greater than light, now we discover that between the particles of the subatomic world there exists an intermediate “Bond” that has no “relation of locality” between them with the result that at that point the Theory of relativity is itself disputed.

Despite the fact that a large part of the scientific community denies the possibility of the existence of phenomena that evolve into velocities greater than that of light, the experiment of Alain Aspect, of the Paris research team, overturns this axiom.

The internationally renowned British physicist of the university of London, David Bohm has made the shocking statement that professor Aspect’s discovery proves that there is no objective reality. In short, although in our eyes

the universe appears to have some sort of solidity, in reality it is a ghost, a phantasmagorical hologram without limits.

According to the views of Professor Bohm, the basic cause of the fact that the subatomic particles are in contact, that is to say, to be correlated independently of the gigantic distances that may separate them, is that the separation that we think exists, in reality does not exist, but is an illusion.

Professor Bohm is convinced that on a deeper level of reality these particles are not entities but virtual extensions of the structural organism itself, which in its essence is indivisible but in its illusory presentation is divided with a direct or indirect relation of its parts with all the levels of its Division.



David Bohm

Professor Bohm refers us for the verification of his theory to the following experiment: We place a fish in an aquarium. The observer sees the aquarium in two screens where the one is connected to a camera that focuses on the aquarium obliquely. The observer sees the fish as two fish on the two screens, since the optical angle of each camera is different. The more the observer sees the fish on two screens, the more clearly he confirms that the two fish are connected by a 'common bond' that makes them appear as if they are connected.

The behavior of the subatomic particles in the Quantum world shows that there is a level of reality which human senses cannot conceive and the human brain that receives the information from the erroneous sense does not perceive reality.

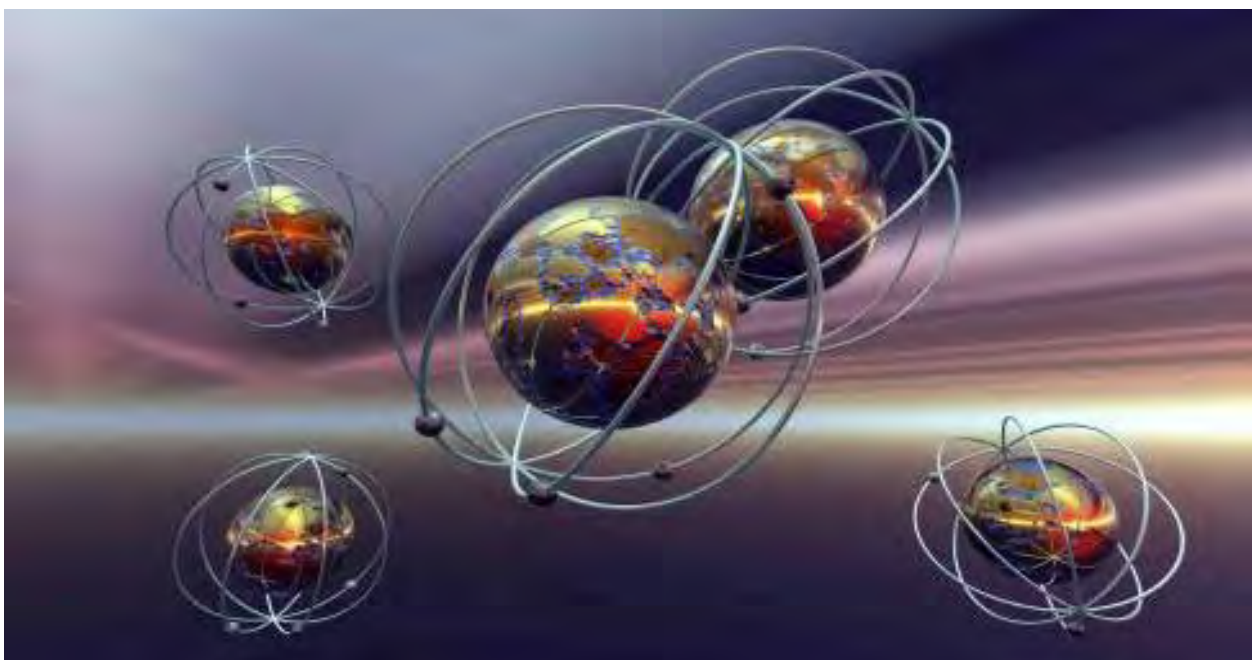
The world around us from our brain to the known planets, stars, galaxies, and the entire universe seems separated to us because we see only a part of the objective reality of the Whole.

All these aspects of items that our senses perceive are parts of a deeper unity that is in the end equally holographic and undivided.

Conclusion: Since every object in the physical world is displayed by the image perceived by our brain, it follows that the universe is a holographic display.

Professor Boehm's view relates directly to Plato's regarding the theory of the two worlds, as well as the views of Plotinus who 2000 years ago believed that in the universe all are One.

The question that arose was: How did one particle know what another particle was doing, since a mind-boggling distance separated them ?





On a still deeper level, these views help us to conclude that the universe as a hologram must have still other astonishing properties.

Since the separation between particles in the Quantum world is only ostensible, this means that if we can penetrate to the depths of the nature of things, we will discover one to infinity connections between them.

Can we imagine that the electrons of an atom of carbon in the human brain is linked and related to the subatomic particles that make up a turtle, or a wild animal, or a bird that flies or a shark or a planet in our solar system?

The correlation and proportion of identification of all things, constitutes an object of study for many contemporary scientific laboratories that conduct related experiments. One such experiment is the following: In a transparent fireproof container, the scientist-researchers placed a live shrimp. On the branches of an ornamental philodendron that was in the same laboratory, they placed sensors to follow the functional pulses in the body of the philodendron.

When they placed the fireproof container on top of a Bunsen burner, the live shrimp began to react in agony of its imminent death.



When the shrimp had expired, the machine that recorded the function of the philodendron showed a straight line as happens with a cardiological machine of a person who died.

This shows that that the philodendron, when it was in the same environment as the shrimp “felt” its death, within the unknown “bond” that connected them.

According to the modern theory of the holographic universe, everything communicates with everything else. Space and Time lose the mathematical concepts of existing theories and in the depth of the matter, are self-determined as properties of a reality in which Time is the past, present, and future, in the same unity while Space is the infinitely United, the Hologram, of an Undivided universe, in which the mind of man can grasp only the illusory sections of its division and never its whole.

It is clear that the universal hologram that constitutes the Whole, the Full and the Eternal has a nature that is “Immobile”, while its display, through its divisions, which display the Sensory world, the world of illusion and unreality has a nature that is “Mobile”.

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