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ÉLECTRONISME

A New Physics of the Universe

Essay - Ongoing study - Fiction

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With some major changes in many chapters, including:

Chapter I: Chance and creation of stars

Chapter III: The gravity replaces the gravitational attraction of Newton and Einstein

Chapter V: electricity explanation test

Chapter VII: The dissemination of science, mathematics and computer simulations, very sensitive to the quality of information.

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Introduction - Summary

I know nothing. I believe I know

Électronisme is the Physics of the Universe With space and all the stars

It is also **the Theory of Everything**, sought for a very long time

The whole theory

Electron is the fundamental particle of the Universe.

All electrons are similar, containing an unknown material which vibrates continuously.

They fill the space, creating it, with all of its objects.

The vibrations cause their movements in space and in all the matters objects of this space.

They thus meet other free electrons or already components of materials.

Contacts can be followed by new movements or links.

This results in the formation or modification of materials and the creation of all objects in space.

The operating rules are simple and immutable

All actions are carried out by electrons, anywhere, any time, in the same way, always following contact between them.

Thus, no action is remotely possible

This theory is scientific, according to the criteria of Karl Popper.

This study is based on the knowledge accumulated by scientists as a result of all their observations and experiments, according to what I have the possibility to know.

They all are accepted and I did not invent anything.

Except different explanations for the most part of known phenomena.

As currently described in 2016, the theory is complete.

But we do not yet understand all the phenomena that create all that we see in the Universe.

Checks and explanations are to be performed by scientists.

The website Électronisme is presenting the study as an Essay that is constantly evolving. The text is often changed and additions are identified in annexes.

Peculiarity of Studies with Électronisme

Électronisme theory is based on a single element, the electron which we regard as known and accepted by all scholars with all its features, invariable in all places and circumstances.

To know all phenomena and objects on Earth and elsewhere in the Universe, we know so that we need each time, as much as possible, find the electrons with their immutable rules of operation.

Between matter that we observe and electrons as basic constituents, there are very high number of compounds created by chance, different from each other, often difficult to understand.

The entire system of the Universe is essentially random.

All actions are performed at random, without any relation between them.

The electrons operating rules are immutable and few, but no specific rules apply to the establishment of the compounds, materials and all objects in space using random objects already created randomly.

Last century, the physicist Edward Lorentz (1917-2008) showed that the chaos is predictable but the chance based systems are not at all.

Thus mathematics studies by leading physicists, Newton, Einstein, Maxwell, Dirac, Feynman and others were difficult when they were interested in the elements [observed, which are the results of random phenomena](#).

Their theories and explanations are difficult to understand and some have to be change.

Universe studies and its physics remained very marked by the difficulties of these studies and the requirement that seems wrong now, to know mathematics to dare to try to understand.

Despite the creation of a new paradigm, the Électronisme will not change much the actual physics of scientists, researchers and technicians, for their studies, current research and technologies are carried out mainly by trial and error process and actual observations.

The Universe

Energy, light, heat, time and other phenomena, which we are accustomed, do not exist in the Universe.

From the beginning of their creation, humans have observed the workings of the Universe through the events and objects around them. Mass, light, heat, motion and energy, have always been known and were part of themselves.

They attached great importance to these elements that seemed regulate their existence:

The Earth and all objects. They called Mass.

The Sun and fire. It was energy.

Day and night showed light.

The men then created the material, social and intellectual habits that have evolved over time.

We still use today, despite the work of all scientists, mass, energy and other items, as they were defined precisely from the beginning of mankind. We apparently manipulate them according to rules that correspond to what we, as living beings, are expecting, because that's what we used to get forever.

We incorporate in our thoughts elements that seem to naturally exist without that we don't need to know, such as light and energy.

But we do not know what they are, what prevents us from understanding many other phenomena.

Current state of research for Électronisme, April 2016

A recent reasoning leads us to think that the Universe system is much more random than we had imagined from the beginning of our study.

The creation of the compounds, and material objects is realized by the complete rules of electrons operation. We must add, in our description of the connections of electrons to create compounds and materials, the circumstances and the time needed for all the vibrating electrons, participants **realize the contacts and** connections.

Time does not exist and the operations that always come true instantly, do so only when the actual contact electrons permits. A time (human) very important for motion and "unsuccessful" contacts can take place until the realization of all or most of the necessary connections. This time is very variable depending on the importance of random compounds and previous links also randomly.

This explains all the time necessary for the realization of materials and objects in space, and

Almost eternal existence of the Universe.

Summary following the chapters of the Essay

1 - The Universe existed since a non-start, there is almost an eternity ago. It is a reality as strong as that of our existence.

The current cosmology is not scientific accepting certain forms or situations whose reality is only a belief.

It is created by the existence of electrons that form the Ether of space and create all objects and materials, visible or not.

Time does not physically exist. It is a tool created by men and for them. And therefore is not Einstein Space-time.

It is an active system without conscience. In which everything is directed by chance. So by chance are created all the objects in space, stars and others in a cycle of "life" of several billion years.

As results of electron operating rules, objects of space, stars and planets, grouped into larger structures are formed and evolve billion years. Thus are explained nebulae, planets and bright stars that become black holes, quasars, pulsars and many other apparently very different objects from each other, created from the same material.

These rules also explain almost eternity of the Universe.

2 - The electrons are the only elementary particles. They are known to all physicists. We use its properties and added the vibrations that were guessed for a long time and start to be observed.

They are only vibrating mass constituting the entire mass of the Universe.

The **énergie, as active force**, does not exist, neither participating in particles, nor free in space.

The thermic agitation is a consequence of actions. It is felt as heat by living beings.

The equation Einstein $E = mc^2$ is explained differently than usual.

3 - In the Ether of space, electrons vibrate and move continuously. They can meet what causes changes in their movements or their connections to each other. In billions of years they create materials and all objects in space.

We explain the creation of the compounds, in particular, atoms and molecules of a variety of forms.

They create the same time:

- **Gravity** remaining inside objects at all levels of their structures. It explains the creation of objects in space and galaxies and very extended clusters.

- The **gravitic clouds, or atmospheres** of objects and new links and objects, with actions of **magnisme** between the limits, instead of magnetic field that does not exist.

- **Space disturbances** that we know only as waves, a phenomenon linked to the ability of our observation materials.

- The electricity for the living beings on Earth, is the apparent force:

- Participating in all the electron bonds and

- That we try to use.

4 - The disturbances move throughout the space Ether. They then appear as waves that living things use different ways, light and vision in particular, which we explain fully, including the ripples on a pond when throwing a stone and tsunami wave that has similar origin.

The **light** is therefore only for living beings who have learned to use it. It allows us to observe, understand and use many phenomena of the Universe.

5 - The air and water are quasi-materials into the atmosphere of our planet and probably other objects in our galaxy and elsewhere.

The air corresponds to gravitic clouds with winds of particles that exist around all objects.

The water is created from the mass of fissile materials that are processed at increased temperature of the material on the planet. She created the oceans and now probably continue.

Nuclear energy seems poorly explained and could be used in trying to directly produce electricity in networks.

Electricity is the possibility, under certain conditions, of binding of electrons in contact, in all objects of the Universe. It always exist, without features or special provisions in these elements. Not any force or energy is associated or necessary to the electrons that bind.

6 - Life is a phenomenon which we do not yet understand. Living beings are created as all matters in the Universe with the feature "Life". All living things are surrounded by an envelope involved in their operation.

They all have more or less apparent and developed nervous system, from the colonies of unicellular individuals to the brain called the superior beings.

This system can be likened to a fairly large network of specialized proteins whose permanent change are brought by information which would be transmitted by disturbances of the internal space of the organisms.

The creation and evolution and social life of all individuals is normal after all other operations.

So... "It is agreed to admit only men have spirit.

But what do we know of other non-human persons, we recognize that a certain level of intelligence as we understand it, and those who seem not to need spirit to exist?

Similar reactions of some people to depend on external phenomena acquired reflexes, sometimes imposed by the leaders of the people, for the good of their community or under this pretext. This can include physical and mental behaviour as military obedience, and exclusive beliefs, usually religious. "

7 - Électronisme theory must find its place in the knowledge of the reality of the Universe and needs many additional studies to be conducted by physicists.

We quickly look at the important issues of the dissemination of scientific information and some theories different Électronisme.

Then the mathematic that are used for three centuries for Physics controlled regardless of the random nature of the searches of all observed phenomena and values.

Everything is explained by the theory of Électronisme.

Some phenomena are described in our Essay. Thousands more need additional controls or further studies to fully understand their meaning.

CHAPTER 1

UNIVERSE

- 1,1 - Reality of the Universe,
- 1,2 - Ether of the space,
- 1,3 - The time, 1,4 - Space Time,
- 1,5 - Age of the Universe,
- 1,6 - The Gravity,
- 1,7 - Active system,
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- 1,10 - Creating of space objects,
- 1,10,a - Space Observations, & 1,10,b - The Galaxies,
- 1,11 - Electron' Cycle

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1,1 - Reality of the Universe

For us living beings, the Universe is as strong a reality as that of our very existence.

We do not know the reason for its existence, nor of ours.

What we know of it gives us no reason to think there could be one or more other universes that we do not know.

The reflections, on this, are philosophical, often guided by irrational beliefs and strong as to be unquestionable.

The study of the Universe is made by human beings, for themselves.

There is nothing, no one anywhere in the Universe that could do it for us and that we could understand.

Some physicists question its reality by asking themselves why something exists while a void could be in its place. Philosophers of science also raise questions about the value of what we do not understand and what we do not know that we do not know.

In the early 20th century, the study of the Universe was troubled by cosmology, speculation that deals with the knowledge of the Universe and is scientific if one takes account only of facts and actions actually known and proven.

Before this century, cosmology was not considered a science until Einstein gives a shape to the Universe based on his theory of relativity, whose mathematical study is difficult to understand and accept. Einstein was a physicist, not a mathematician.

Many physicists continue to explain it as if no one had really understood. This is probably true.

His theories of relativity were based on poorly known elements in his time:

The relativity of Galileo transposed, in parts of non-breaking parts of space, very physical observations of terrestrial events.

The Newton gravitational attraction to which he himself did not believe. See chapter III.

Its average value on our planet, so it is very variable in different places and very different in all other objects in space.

For a century its value has changed more than 300 times.

The speed of light considered as invariable and insurmountable without reason since nobody knew what it was.

Maxwell's equations for non-existent phenomena, never explained.

The way we interpret facts and observations depends on the knowledge we have of them.

There was the discovery of the atom and that of its components; that of "geo" and heliocentrism; the gravitational attraction of masses marked the time of Aristotle and elaborated by Newton who did not believe; then Einstein's relativity, the Big Bang and quantum mechanics, that no one could ever understand, explained its creators and Richard Feynman.

Nowadays, in the beginning of the 21st century, with improvements in the observational techniques, the astronomers discover other objects and phenomena which push them to be interested in the theories of the last century. But it seems that astrophysicists, and mainly cosmologists keep hanged to ideas never actually proved, as fundamental Universe constants, its expansion and existing matter and energy said black, unknown or exotic.

In astronomy, many scientists consider that 85 percent of the Universe would consist of unknown material whose characteristics are difficult to know and understand, despite all the current research.

For some scientists, an invisible energy fills all space. Its manifestations are many. Others find in free space, a force called vacuum energy, related to an alleged expansion of the Universe.

This expansion and a vacuum energy are hard to admit, and experts recognize that they do not yet understand much.

With equipment constantly improving, astrophysicists observe and explain that new stars are created with the remains of space objects, destroyed at end of their

life and observed particularly in nebulae. The clouds of these residues are invisible to us, what we explain in this chapter and the 4th.

1,2 - The space Ether

Human beings have always thought of an Ether of space which would support the stars, gravitational waves and photons. But scientists of recent centuries imagined it with difficulty and did not find a substance that would be free of all its components and elements that it would support. The idea has been accepted more or less time by many scholars including Descartes, Newton, Einstein and Poincaré.

Space is everywhere, in what we call space, of course, until our home gate and in all material objects and in open spaces around and in all matters.

In this space, the systems of the objects are gathered into various structures, galaxies, clusters, and more, without observable or sensitive boundary between these structures and the immense areas that seem empty.

Since the 17th century, many researches were directed to a ‘substance Ether’ linked to the objects it would carry. The matter should have been constituted of atoms, like all other matters on our planet, and probably elsewhere. Thus conceived by Pascal and later Michelson and Morley.

The researches never allow to find it.

Newton, before giving his idea on gravitational attraction, thought that the Ether could be a ‘kind of very subtle mind that penetrates all solid bodies’ We could say this about our Ether.

Currently, despite all our knowledge, it seems that physicists fail to establish a theory synthesising the ideas of the Ether and vacuum of space.

Einstein considered the Ether in 1905 in his studies of gravitation and relativity, then abandoned the idea. But he revisited it, and sketched its history in his lecture in Leiden in 1920. The lecture ended with this paragraph: "A space without Ether is unconceivable... This Ether should not however be conceived as being endowed with the property that characterises ponderable media."

In Annex 5 of his book on relativity, he quotes Descartes and Kant and vindicates the first against the second, denying the existence of vacuum, that is to say, he specifies, the existence of a “filled” empty space. He notes in the preface to the ninth edition of his book: "Physical objects are not in space, but they have a spatial extent. Thus, the concept of ‘empty space’ loses its meaning".

With our theory, we propose that space exists by the presence of elements that fills it entirely and creates it.

This is also the creation of the Universe itself.

Thus the space consists of one volume, which is the space itself and the Universe.

Its elements, the electrons of the Ether, are the "universal" medium.

They vibrate constantly with a variable volume in two dimensions, which we explain in the next chapter.

The elements of the space seem to bear all the free space bodies and made objects, which, as an object, keep their volume in the space.

They are not held together, they just vibrate side by side and the movement of expansion of their vibrations makes them move away from each other; they can also meet, and incite each other for their move.

They do not leave a gap between them, because nothingness cannot exist in the Universe, it would lead it to its non-existence.

In this environment, all bodies, free from all connections with others, of any quality or size, move without limit, except the meeting of other elements.

They are other free electrons of Ether and other bodies resulting of previous meetings and their connections that create inevitably most important compounds which, by chance, at every possible contact and connection, in a time of billions of billions years, create the objects that we know.

Thus these objects of space, stars and planets in their galaxies and clusters are **the results of the disorder of electrons of the space Ether.**

There is no purpose in these creations.

Objects are always special, different from others, **because somewhere by chance, one or many contacts between electrons were somewhat dissimilar...**

1,3 - Time

There was much discussion of Augustine phrases evoking time... "What then is time? If no one asks me, I know; but if you ask me, and I undertake to explain, I find that I do not know. I can boldly say that I still know that if nothing happened, there would be no past time; nothing should happen if there have no time to come, and that if nothing had happened, there would be no time now... "

And also: "The time is not a knowledge but a thought."

The time does not exist as a material concept with a tangible presence or substance that would have an observable action.

We perceive that when it held a new event, different from another, previous or not, depending on how we observe it. The two events exist in different times, in

what we call a space of time, indefinite period, like all other events in the world, near or far.

They were carried out at different times, without need for an element that separates and collects in a determined time. Multiple events can be realized in a certain space of time, but no material factor of time is needed to bind them.

If no new event occurs, there is no time that would be determined by the observer. In men everyday life on Earth, in the Universe, new events occur continuously and as they always have an impact on each other, an apparent time still exists.

It is the observer who creates time.

This was not the case at the very beginning of the Universe. Thus, we can not estimate time for periods without event and without time that could have set the date for the beginning.

Eternity exists in these conditions. We never know how long.

According to Électronisme, the only element acting is the electron. It consists of an unknown mass of material whose volume increases instantaneously and then reduced in the same way, increased again, and so on without interruption.

The action is instantaneous, without "time" for implementation.

With our human appreciations of time, we can consider that the operations that follow, instant expansion of an electron, instant return to the minimum volume will not be realized at the same time and there may be a very short time of change of action.

There is no "time" determined between the two objects, expanded and then reduced electron, which we see as new as it is the same Mass.

We could observe four operations and various instant situations: the expanded volume of the mass, its stop, the original volume, its stop. These cumulative instantaneous operations take "some time" according to our human observations or reasonings.

With the sophisticated equipment now used by researchers, we can observe and record intermediate stages, in which two objects are confused into one "time."

We get a **virtual and stealth image of an object that does not exist** and that physicists consider trace or footprint of new objects such as discovered and used by quantum mechanics and listed in the Standard Model.

They are observed only during a very short "time" and are very varied quality, never a precise mode of action or participation in actual physical events.

This would happen as a boson, the said Higgs, for example, which is described as traces of an unknown thing we do not know the form since it disappears as soon as being created and we have never seen. This would be an intermediate object shown by very or too specific precise equipment that observe objects very difficult to distinguish from each other.

The trace is found only in very small quantities in yottas of accumulated information.

If it really was the vector of a "Higgs field" that would give to the Universe mass elements, it should exist in very large quantity.

This could also be the case of neutrinos which change their "flavour", no one has ever found the reason for their existence and variations. Again, if it exists, it is surprising to find so little.

According to our current knowledge, the living beings on Earth are alone in the Universe to use the time for their material and social life.

Men gave human measures to time and our most accurate clocks are based on vibrations, "almost" stable, of well defined crystals. Current research is directed to the use of vibration of atoms in place of those of the crystals composed of atoms. We approach to the electrons vibrations.

In objects, all compounds body vibrate a bit differently than electrons and maintain an agitation which can be very high, especially in the stars. This agitation corresponds to movements at varying speeds to free compounds or particles; it does not affect the movement of electrons vibrations; so there is no significant difference in time compared to that of the void of space objects.

Thus to establish our distance to the stars, astronomers have never doubted the immutability of "natural" speed of light.

We will see in chapter IV it is based on the speed of movement of electrons vibrations. It is an accumulation of time observed to create "instant" of successive objects.

1,4 - Space-time

In the Universe and its objects, for example on Earth, the assessment of four dimensions, three of space and one of time, is logical to allow us, living beings, to completely locate objects and events.

All are located in a point specified by its distance to the material bases determined at a specific time in their lives and ours.

Space-time has always existed in the lives of human beings. It is an unconscious and necessary **social phenomenon that has no particular scientific value**.

The dimensions, considered as tools for locating objects and events, exist only by sentient beings and for them. We have on Earth the matter that allows us to create these benchmarks.

Without them, the dimensions and distances can not exist.

In the Universe, we have no reference or location of objects and their distances, except using our human bases.

Particularities of these dimensions, or extra dimensions that may be difficult to understand, are therefore meaningless for us in the Universe.

Symmetry, or another particular orientation of movements of particles and various bodies, cannot be assessed except with our references.

The curvature of space-time is a creation of Einstein, to try to incorporate the gravitational attraction of masses. This deformation is incomprehensible in a volume without structure and isotropic. The graphs are misleading, showing deformed volumes, by an attraction "down" without the consequences of 'contre-deformations

Similarly, the geodesic mean nothing in the vacuum of space.

No astronomer has ever considered this curvature of space in his observations of the heavens and the calculations of distance to galaxies and other objects.

1,5 - Age of the Universe

We cannot imagine a beginning to the Universe.

For it to begin at a definite time that we would know, it would have been created by something in a void that at the same time would not be nothing; and, for the supporters of space expansion, may still exist, but not necessarily.

According to our theory, the Universe has been existing since a non-start, which happened an extremely long time ago, an almost infinite number of billions human years.

In chapter III, we explain the creating of electrons compounds, the first stage being a quite rare singularity, the binding of Ether electrons, with others, free or already participant of particles and various bodies. As soon as they are linked together, the electrons cannot still being free, taking part in the space Ether, but their volumes, even slightly modified, it still in it.

We may think that all the elements that make up the compounds were originally participants of the space Ether.

At the real no-start of the Universe, billions of billions years ago, a first singularity occurred: electrons tied together and that was the beginning of the creating of the matters, objects and the Universe as it is known.

These singularities have not been more frequent in the following time, and at present, but they continue to be done, until they constitute all the objects existing in space. They are still badly known and the astronomers and astrophysicians do not estimate the quantities of objects numbers, or by mass or volume, in link with the volume of the Universe which is unknown to us.

But they try to estimate the volume occupied by the objects regarding this to the whole space, considering it as homogeneous and isotropic.

The recent observation (end of 2013) of a "large quasar group" which could be the largest structure ever seen in the entire Universe, shows that space is not so it was considered.

The volume of objects, particles and constituted matters, increases regularly from the first links of the Ether electron. We can notice two cosmological information.

- The awareness, in the limited volume of observable Universe, of the average rhythm of the links of the Ether electrons, and valuation of the number of electrons in all the already created objects, could give the age of the Universe, in billions of billions years, with more or less some tens of billions. An almost eternity.

- A valuation of the volume of space void of objects, could allow us to calculate the time for «filling» it, that means the number in billions of billions years needed until all the free electrons of the space Ether are changed into matters and objects. An other almost eternity, but in this side, it could take a bit more time at the end!

- And after? We have plenty of time to think about that! May be a Big Bang...

1,6 - Gravity

As explained above and later in the essay, the space objects are in perpetual creation and modification. Their shape and their number is constantly increasing. They live a few billion years, then are replaced by others that are built with previous remains. We will see that intricate bonds are indestructible, which might suggest that as measuring the progress of time, **objects, stars, galaxies and other clusters gradually become larger.**

The objects in space could be created just like those we know on Earth and in the solar system and beyond with astronomical observations.

The gravitational attraction of the masses does not exist. It was never explained. We do not see any justification. Nothing explains that mass attract another.

To understand its presence in the space of the current cosmology, we must go back to Aristotle and the Persian astronomer Al-Khwarizmi. Philosophers - Physicists "knew" that a force of attraction existed between the celestial bodies, for "standing them where they were. " The studies were difficult, evolving with general understanding of astronomical systems.

The idea was acquired, indisputable. Such as the movement of the planets, the existence of light and heat from the sun. The stars 'held' themselves in the space because a link existed between them. The observed shifts of planets took into account and it was no need to explain the basis of the system.

Copernicus, Kepler, Galileo continue the study, from a general system to another without ever questioning this ill-defined attraction that tied all these objects by their Mass. Then Descartes and Newton in the 17th century, show the same ideas, Newton attaching gravity.

Newton explains the gravitational pull in his work but he does not admit this attraction, from one body to another, even very far from each other, va-tout related material. It would be the first scientist to refuse, but he found nothing to replace the idea accepted by all.

He writes it but nobody will consider it.

Einstein at the turn of the nineteenth and twentieth centuries, took up the idea with the theories of relativity. His mathematical studies are difficult, probably because he is not certain of the reality of gravitational waves. He will discuss the rest of his life.

The idea was lacking in Newton and Einstein could be that of the internal gravity of objects created by the normal operation of electrons as explained by Électronisme. See chapter III.

We will see that in all compounds, materials and objects that form, it is established a gravity by the normal functioning of electrons vibrations.

The gravity in all compounds and objects is always accompanied by gravitic clouds, or particles winds, more or less bounded, participating to the creating of extremely various structures.

In space, all objects and their gatherings, form the same type of gravity, with very different various phenomena, according to thermic agitation, sizes and qualities of the matters while evolving to create new objects.

Thus, it is difficult to provide all the events in space. The disappearances and gatherings of stellar and galactic systems are not very known, but they all follow the electrons functioning rules, applying, on our planet and everywhere, until the smallest elements that are the constituents of the Ether.

There are still the same rules which make that the rays of compounds, creating thermic agitation, never, or quite very rarely, leave from the gravitic clouds, creating limits relatively marked, around all objects.

It is very difficult, if not impossible, to imagine without using the infinite, "the immense magnitude" of the Universe, and therefore also its shape and limits, if they exist.

It has no form, if it is not limited in a material sense. Therefore it has no outside that would be another Universe or nothingness. Or else we must admit another theory, that of the existence of a significant number or infinite number of Universes.

It cannot be flat or convex or even as a Moebius ring, which may require, according to the belief, an exterior and a limit...

Cosmologists speak of its flatness without indicating what is the thickness of the flat sheet in the thickness of which our entire observable Universe would be found...

1,7 - Active system, without conscience

It is an active system, in the sense that its constituent particles constantly vibrate and create objects without reason, in perpetual change and renewal in other forms. They are random and we can not predict or track their permanent changes. We understand them with the help of chance, we are studying further.

The elements always act in the same way wherever they are, regardless of environmental conditions. No conscience, provision or particular directive is possible or necessary, despite the immensity of the number of all relevant factors concerned, all of which being electron compounds.

Such a system can only work because the actors are all similar, and follow simple functioning rules.

The occurrence of the events and their quality depends solely on two factors:

- The environment in which they take place, the result of all the above facts, or initial conditions that may be specified for a particular phenomenon.

- The precise state of the elements in contact. Similar elements in identical environments always give the same results.

Thus compounds are created and similar materials, for example crystals, in well determined systems. The phenomena are realized

sooner or later depending on the available items, according to their qualities and quantities.

- From chance. See next section.

Mathematics have no character that could indicate an origin in the Universe. This is the subject of philosophical development without any connection with the physical phenomena.

The essentially random creation of all the materials and objects in the Universe does not allow the use of mathematical tools to predict their development.

Mathematics do not give reality to concepts and useful virtual elements to the reasoning as the directions of charges, antimatter or cosmological constants.

Everything can be observed in the Universe, but the aesthetics and beauty are very specific sensations to living beings on Earth. Appreciation varies with them.

They can never be used to set universal rules or developments.

1,8 - Random system and hysteresis

Chance is involved in the entire operation of the Universe system.

After Poincaré and other physicists in the early 20th century, Edward Lorenz studied chaos and established some laws, - if possible - with overly complicated mathematical developments.

The chaos reflects initial conditions.

They do not exist in the random system of the Universe.

The big difference between chaos and chance of the Universe is that Universe's system does not accept "the hidden order in apparent disorder" (Wikipedia), or attractors with mandatory rules or fractals that are never complete.

Universe has no initial basis, except that its existence is due to the vibrating electrons whose actions are simple and immutable, creating random objects that are still the basis of the following.

In their studies, physicists, aided by mathematics, have always tried to reflect the chaotic chance, with the initial bases of their time. But each had his own. The information used also varied and it seems that no one has given what they were so much chaotic.

All creations of compounds, their modifications and transformations in materials and objects are the result of phenomena created by all similar electrons, according to immutable rules of operation "in all place and any time" throughout the Universe.

Under these conditions, all events should be predictable.

This is not possible because the actions are carried out at "full" chance of elements contact, free electrons or electron compounds, and their relative positions. Created or modified compounds are different from each other and unpredictable. Variations from one element to another in a specific area may be relatively small, which may allow the creation of almost homogeneous matter.

The chaos is a particular system that would limit the action of chance by bringing observations to a prior event that would be the beginning of the studied system. This does not change much for the Universe because the number of elements is so important that the return to a starting position is virtually impossible.

We might think that the system of the Universe is a particular random since all operations are performed by electrons with very precise rules that would be "the" preconditions. But the actions are carried out "at random" encounters between elements whose qualities are not specified because they are the result of random previous operations.

This particular chance of the Universe does not allow more forecasts than chaos or complete chance.

Studies have been made, with the Laplace determinism and chaos theory, the Poincaré studies, reflections such as the butterfly wing of Edward Lorenz in the 20th century. Excessively complicated mathematical models have been used to try to understand what we do not see and predict... the chance.

In meteorology, the results depend on the importance of the mass of information gathered and used very quickly with complicated mathematical models.

Mathematical and computer simulations are very difficult if not impossible for both the study of already made phenomena than for event forecasts in space for the creating of stars and other events.

Biologists and physiologists are currently discovering that randomness is very important in the creation and life of cells of living beings, and their very different molecules, elements of microscopic, nanometric and even smaller dimensions. That is to say that we are still obliged to take into account some factors that we do not know, and give random results that we are trying to predict.

It is then natural to think that the phenomenon exists at all levels for all elements of smaller dimensions up to that of the electron, or in the other direction, towards larger space objects.

Because of randomly conditions for the formation of compounds, the created objects are all different from each other. Astronomers have never observed two planets, stars or galaxies that are identical in space. On Earth, the mountains or sets of the "same" rock or ore, are of varied qualities and varied forms according to their different places of origin. Marble cutters use granite in different colours according to their original quarry and coal, iron or copper, for example, are never identical from one region to another on our planet.

The frequency of the process and quality of results are always random for us.

No «decision» of action is instantaneous. During its movement, an electron, free or already participating in a compound, can meet another, similar, but in a different phase of its vibrations, and if conditions allow them to form a link, this action is carried out immediately.

They can also not act because the quality of contact prevents them. Several or very numerous successive contacts may not lead to entanglement and an event. When it occurs, it may have happened over a certain time that varies depending on the compounds, objects and environment.

This time lag between the first meeting that could have enabled the action to take place and the moment when it occurs is **the hysteresis**.

It is variable according to the quality and importance of the involved elements. It is perceptible by us directly, on our planet, in numerous phenomena such as electricity, and the creation time for some compounds and objects. Special cases for us are the creation and development of living beings.

As time, the hysteresis is a phenomenon observed by men. It has no character linked to the Universe, space or objects.

It is a consequence of the fundamental rules of electrons operation.

Its duration is essentially variable and exists at all operating levels of the electrons even at the subatomic level that we can not directly observe.

Without hysteresis, the Universe could not have existed. From its appearance, it would have immediately fully created and destroyed, in strict application of the rules of operation of the electron, despite the notion of vastness, inseparable from the Universe.

1,9 - Disorder and entropy

From the non-beginning of the Universe, electrons bound together, formed a wide variety of compounds and thus creating what seems to us **disorder**.

Since then, the normal vibrations affect the movement of free elements and all bodies in this mess, and there create new objects.

Disorder describes the disturbances that change the state of a system. In any noninert one, random changes are always disturbances, which cannot be eliminated at random, except if they are transferred to another system, separate but contiguous.

In an isolated or unique existing system, such as the Universe, disturbances cannot be deleted. They only move and change constantly, randomly, by vibration.

Entropy refers to the overall distribution of disturbances within a medium. If the system is isolated, vibration can only break, regroup and scatter evenly small faults whose number will increase. This is an increase of entropy.

This new entropy does not happen immediately in a medium with the immensity of the Universe, especially considering that the modifications of the defects never stop and remain connected to their areas, with a continuous distribution in larger environments.

In space, there are more or less great regions with more or less large entropies, such as those which seem empty of objects, and others which include varying amounts of stars, galaxies and other items. They vary continuously.

As disorder is related to the importance of compounds and materials, it seems natural to think that it is more important in clusters of galaxies and clusters of other space objects in areas considered empty.

1,10 - Creating space objects

1,10,a - Observations of space

In the early 21st century, new observations with ever improved processes, enable to see more and differently structures and objects in space, casting doubt on previous theories.

In 2015, even the big bang and the expansion of the Universe are questioned by some physicists, which could result in a very different way of seeing the Universe and all physics.

In the year 2014, astronomers have discovered that our Milky Way galaxy is part of a much larger structure called Laniakea. They simultaneously observe that problems of gravitational attraction, or gravity, within such a system could change the perception of the space expansion.

Which is confirmed by other recent observations. A team of researchers, led by astronomers from the Strasbourg Astronomical Observatory found that small gal-

axies satellites, around the "big", move like in rotating disks. We interpret as areas of stellar winds that influence each other in galaxies.

Already in 2013, it was reported that the Andromeda galaxy was surrounded by a disk formed by a multitude of small dwarf galaxies. This structure, extremely flat, extends over a million light years and seems to revolve around the galaxy.

At the release of this information, the only technical comments indicated that **"The Newton gravitational attraction and Einstein's theory of relativity may not be accurate.**

1,10,b - The galaxies

The objects gravitic cloud could also explain that the orbits of planets around the Sun are all in the same plane, which was discovered in 2008.

Wind particles, around stars and planets, match their gravitic clouds. We may think that the first orbital plane of a planet around a star causes the other planets in the same orbital plane.

The shape of galaxies may depend on the same phenomena.

The volume of stars winds changes constantly as contacts more or less marked with those of near and remote stars in their galaxies.

It is very understandable that the stellar winds develop and move further in the area of the diameter of faster rotation of the stars, and the accumulation of all these flat atmospheres creates similar galaxies with growths of atmospheres formed by additional stars therein create or agglomerate it in different orientations.

Other recent astronomical observations, in intergalactic space, give images of more or less structured light clouds, forming the WHIM - acronym of English words meaning Intergalactic Medium to high temperature -. They would consist of small elements and particles very scattered created from electrons of Ether *in areas outside galaxy*.

They could form objects classified as orphans and be the beginning of new galaxies.

While most current material of objects are formed from atoms created in stars and other objects that have preceded them in space. This would correspond to the permanent and logic creation, in our theory, of new objects anywhere in the Ether of space.

But these "first" objects have a relatively short life because they would not have atoms, since the nuclei are formed in stars with high thermic agitation.

1,11 - Electron' Cycle

By accident - called a singularity in physics - some electrons bound together, form compounds, some indestructible, creating stars and their planets, and other objects that are invisible to us. After billions of years, compounds reappear to us, scattered in vast nebulae and dark clouds in galaxies or free space objects.

It is an endless cycle of indestructible electrons.

We'll tell a possible version, despite all the unknowns of what we see and do not yet understand, and constantly evolving.

We start the description **in a nebula.**

There are very many in the galaxy, and probably outside. These are huge expanses of clouds, with shifting boundaries, more or less transparent and difficult to observe because they are visible only under very specific conditions.

These nebulae are usually composed of remains, very scattered, of stars and other objects in space, in the form of bodies that are visible when sufficient activity is developing, that is to say that small compounds bind together creating disturbances of space; as we explain in the following chapters.

All nebulae are different from each other and contain the "diluted" material, considered "dust and gas." These terms do not correspond to what we know on Earth where they are badly determined elements of various materials.

The dust in the nebulae would be made of large particles and other bodies, like protons and atomic nuclei, not yet combined into matters.

In some areas, the temperature begins to rise, following slightly more bonds of various compounds, triggered by radiation from other objects or electrons of the disturbances of space. Everything is still very scattered, but the objects are formed and move, increasing the links and movements.

A gravitational collapse is often given as responsible for the formation of stars in the nebulae. This is not right because not any attraction of a mass by an other can exist, as explained earlier in this chapter.

Radioactive material could be formed at this stage in the nebulae. They are at the basis of phenomena we study further, water (5.2, d) and the so-called nuclear energy (5.3), in chapter v.

Millions or billions of years after the "disappearance" of stars in clouds of un-constituted matters, nuclei of atoms from the previous objects begin the creation of varied materials.

In some areas, heavy and very heavy nuclei compound with many protons possess a relatively high gravity and can agglomerate with different atoms to form molecules surrounded by many compounds in large gravitic clouds.

Since all the nuclei of these atoms are not "fused", they create various molecules and compounds which form clumps of easily fissionable material.

In the nebula, these «massive» are scattered throughout objects under creating. This was the case for our Sun, its planets and other objects.

All objects remain long dependent on the temperature of the nebula and space of the galaxy where they exist.

After the creating of the first objects, accretions of other bodies continue. Meetings of compounds of different sizes, moving in different directions, cause the rotation of some of them. The internal gravity increases by a continued series of bonds of various compounds.

All these actions are carried out depending on the size of the element and the outside temperature that can stop the phenomena or otherwise accelerate.

Current observations (2014 and 2015) of the comet Tchouri, on which Rosetta laid the minilab Philea, show a matter that would be similar to that of Earth, but much lighter, as if there were much room between constituent compounds. We may think that the material of the (only) planet we really know, ours, would be made of the same material as the comet but was modified since a long time by a sequence of movements and other internal events, which we forecast in our study of the composition of the matters in chapter III.

So, we have different categories of objects because the creating was stopped after varying times depending on the size of objects and the temperature of the environment

- Asteroids, comets with very different shape and a material whose evolution varies with the environment,
- Planets generally spherical,
- Stars whose volume is very much larger than previous objects; their evolution depends on the material of which they are formed.

In stars, materials and their compounds continue groupings with electrons binding while creating an inevitable increase in thermic agitation, as explained in chapter III.

Initially, according to the materials, thermic agitation destroys the bonds of electrons while forming new compounds, which create a new increase of thermic agitation.

Heat increases again and the whole of materials is converted into plasma, which becomes the non-matter of the whole object. In several billion years, new protons are created and many of them are merged into atomic nuclei, formed by tightly entangled electrons.

Light waves reach us from the bright stars in their main sequence. We only "see" the outer part that hides everything that happens inside where the temperature is much higher.

Thermic agitation increases continuously with the electron bonds frequency and therefore disturbances of space Ether electrons. At a certain level, our tools, vision and observation equipment, no longer allow us to see them. The stars are still there, but the frequencies of the disturbances are too high for our vision. We can not see them, they have become a black space, a black hole for us.

These black holes are objects in which the electron temperature and the links continue to grow normally. They can become very large and the density became very strong. The compounds can move no further. There are no more electron bonds and therefore no more increase of thermic agitation.

They can hide other objects and grow by absorbing free electrons in space and stellar winds from other objects in the galaxy.

That's then the real death of the star, became a black hole.

The temperature decreases and, at a certain level, the object reappears to us, huge and very bright. **That is a quasar**, or other similar object that will evolve to be invisible to us again, turning into dark matter, dark clouds, in compounds what are «un-constituted» and incorporated in invisible but existing nebula.

This can last a very long time, billions or tens of billions of years, during which materials continue to change or fall apart slowly by the action of electrons vibrations.

Some compounds, such as protons and number of clusters with nuclei are never defeated because they are held together by entanglement.

It's a long phase of in-constituted matter imperceptible for us.

Objects fall apart and scatter in dark clouds, while their material begins to reform compounds. It is the evaporation observed by Stephen Hawking.

Then their «life» is slowly returning, probably induced by electrons disturbances in space, that may trigger new electron bonds. Clouds of black or dark matter then appear as different coloured nebulae according to their rapid evolution, when the intricacies of electrons are realized at frequencies that make us sensitive.

Before this period of life, the nebulae could be sensible to us by "radio" waves at lower frequencies than light. They could explain "the sounds of the depths of space," instead of the diffuse cosmological background.

And so new stars are reborn!

The life cycle of an electron is completed. Another begins...

CHAPTER II

ELECTRONS

- 2,1 - Their properties,
- 2,2 - Vibrations,
- 2,3 - Energy, 2,4 - Mass, 2,5 - $E = Mc^2$,
- 2,6 - Actions, Motion,
- 2,7 - Rays and radiations,
- 2,8 - Thermic agitation

April 2016

2,1 - The properties of the electron

In the study of Électronisme, it has never been required smaller elements than electrons, which would, for example, be its components or participate in the creation of matter or any other phenomenon or event.

In classical contemporary physics, nothing suggests that electrons would not be paramount.

Nothing can be created from nothing.

No particles of any size, with or not described mass or energy, depending on the needs of researchers and technicians, cannot be created from nothing, neither in space nor in the material of objects.

In many physicists current texts, the word "electron" is wrongly used to account for activities of particulates and compounds, of all sizes, or with variable power loads.

The properties of electrons are hard to find among the definitions of physics theoretical, quantum or classical, contemporary and of common use. Some are very specific, others difficult to understand.

For this study, we retain the qualities considered and accepted by the vast majority of scientists.

Electrons are all similar and consist of a constantly vibrating unknown material.

Their lifespan is "stable", which means they are indestructible.

Their mass is determined: $9.109\ 382\ 6 \times 10^{-31}$ kg.

This is a quantum, according to the precise definition of the word: «quantity well determined»

In the compounds, matters and objects, the number of quanta of mass are always equal to this of electrons. The differences between the compounds come from the number of electrons and the quality of entanglement and structures created.

2,2 - The vibrations

In this description of their known characteristics, add electrons constantly vibrate, always in the same way. Their movements of vibrations occur at a precise frequency, invariable and the same for everyone in any place and time.

A "vibration" is made up of four different instant operations: expansion, stop, withdrawal, stop.

They occur one after the other because they can be realized only if the previous action took place.

No time (in our ordinary use of the word) exists between the four operations of vibration, but they are realized in a while (human) very small, almost imperceptible, but still existing.

Hendrik **Lorentz and Thomson** in the late 19th century, had considered the electron as the elementary particle of atoms and Lorentz made a mathematical study of vibration which he attributed to them, and he connected them to electromagnetism, of which Maxwell was establishing the equations.

In recent years, the improvement of observation equipment and the ingenuity of researchers have allowed them to observe and analyse vibrations in certain objects.

Physicists point to the fact that they could be associated with molecular bonds, or connected to energy and thermic agitation.

In late 2009, other scientists were able to "see the tremor frequencies". Their characteristics would be quite acceptable for the electrons and their compounds.

In early 2011, researchers discovered that slightly different vibrations of apparently similar odour molecules change their qualities, and their perception by living beings.

Scientists have also observed the vibrations of all the crystals and very numerous compounds, without explaining their origin or their causes.

Moreover, the term **frequency** is often mentioned while describing particles and their functioning, without never any indication on the action or quality of this

frequency. The physicists know that a phenomenon is renewed without stop, but they do not know what is it.

In quantum mechanics, particles have spin, that is to say they would turn on themselves at a certain speed. "Quantum" physicists doubt its veracity because the rotation would give to the peripheral portion of the particle a greater speed than that of light, considered unsurpassable.

The spin could be an appearance of vibrations.

In a recent text (years 2000) by « laboratoire de Physique des Lasers, Atomes et Molécules, www-phlam.univ-lille1 » (Laboratory Physics Lasers, Atoms and Molecules, of the University of Lille in France) we read:

"Spin is a purely quantum "object" whose physical understanding remains, even at present, to be completed. Despite this, we can consider the reality to be proven and it is surprising that the rules concerning it are relatively simple. In particular, spin can take only specific «intier» or «half-intier» values.

They could be compared to the movement of vibration, which we attribute to electrons, with maximum and minimum volumes. They explain the qualities of the spins, which would merge with the movements of electrons vibrations.

For the constitution of matter, electrons are "materially" related to others, which is incompatible with their possible rotation.

Because of the vibration, the size of the electron radius is not accurate. We retain the average figure, according to physicists, of 10^{-18} meter, i.e. a billionth of a millionth of a millimetre.

The speed of light observed by scientists, allows us to calculate the frequency of vibration, and we obtain 10^{15} Hz, a figure consistent with current observations.

At the expansion, the radius length is doubled, thereby increasing the volume of approximately eight times.

These values are to be checked by physicists.

We, living beings on Earth, do not (yet) have the means to observe all actions. We know them only because the observed objects are different, never knowing how many and which actions were taken to change them.

Especially since all actions are performed at random, we explain the importance in chapter I.

2,3 - Energy

Energy does not exist in the Universe

It is a phenomenon that exists **only by men and for them.**

What we call force or energy is a particularly concept difficult to understand and which we know only the performed action.

From immemorial time, men have linked the motion of objects on Earth and in space to a force or energy that carried out the operation.

We, humans, cannot imagine what we call energy, while we use it for many of our activities and we attribute it some functions in space and its objects.

As if it had always been there and it was completely part of our lives. Thus, no one thought to try to understand what it materially exists.

We studied the laws of its use, while we did not know at all how it works, both for the movement of the stars, and on Earth to spin an electric motor or many other systems. We established mathematical rules useful for technicians.

But no one knows what is its real form and how it works.

Physicists and other scientists have never observed a particular piece of hardware that would act in or on a small or large object, solid or no fixed form, which would make it mobile or would be able to run an action by forwarding it a force that might be needed.

Because the material reality of the energy does not exist.

Electrons operating rules contain nothing for actions other than bonds of electrons between them.

The conditions for creating these connections are explained in the following chapter.

This apparent force "available" everywhere, in all subjects, is electricity.

It is only apparent and does not correspond to items or special quality electrons, except that in their contacts they can bond and form other real objects that shape their future.

This availability is tempered by chance. The connections electrons are realized in specific conditions of contacts, as explained in the following chapter.

These conditions of presence and electrons operation, confirm that the electric, magnetic and electromagnetic fields do not exist, neither in the materials of objects in space, or space itself.

The space contains no free energy "natural" or black. For it to exist, it would need a support that would be a particle or similar object, which has never been observed.

Electricity on Earth is partially explained in chapter V. No one yet knows exactly what it is and how it acts.

Electrons and all their compounds have no "mathematical" direction of operation.

This is understandable for a free body in space without dimension, since no baseline, and so for us without guidance.

In the 19th century, physicists have given direction to certain elements, particularly those which seemed to contribute to electrical phenomena. They were called electrons, and accepted as the primordial elements still unclear.

Early in the next century, the sense of the particles has been mathematically confirmed, and used more, without special consequence to practical physics.

But, theoretically and practically, physicists continued to manipulate the free electrons or participants to objects, regardless of what they push back without ever bind if they all had the same "mathematical" sense.

The direction attributed to electrons was needed to mathematical studies, especially those of Quantum Mechanics and for the apparent repulsion of the electrons and nuclei in atoms.

It has no other purpose and does not explain anything, neither for free electrons nor in atoms as they are currently analyzed.

It has no influence on a mathematical sense, which should affect the electron compounds with all the same negative sense.

In early 2011, scientists suggested that the explanation of these facts had not yet been found.

In this study, as in all Électronisme physics, we do not consider the direction of electron charge and of all objects that are made of electrons.

It is never necessary or even simply useful in reasoning and explanations.

2,4 - Mass

Mass is the constituent substance of the electron.

As this item is indestructible, its substance is indestructible too. It constantly exists.

It is in-traversable and unbreakable.

The quality of withdrawal and expansion movements shows that the matter of this "thing" is very special and inconceivable to the human mind in the present state of our knowledge.

Together, the electrons form **the entire mass of the Universe objects**.

2,5 - $E = Mc^2$

Einstein's formula $E = mc^2$ is subjective and spectacular, but has no value, either practical or theoretical.

In the early 20th century, it was in the time! Many physicists were searching for a formula to connect mass and energy. It's Einstein's formula which was accepted by scientists and media! In his time, this formula could have some psychological and political importance, at least in the scientific community.

For the general public, it had also a poetic valour. Comparing a blip to a ray of sunshine...

Einstein's equation implies that mass and energy can be substituted for one another, in situations that are not specified. It is used to estimate the amount of energy that appears when a little quantity of mass seems to have disappeared.

The coefficient " c^2 " is relatively very large—it is the square of the speed of light—to show that a little mass corresponds to a lot of energy. It is a human judgement that means nothing, neither in the field of science.

Reading the documentation, we have found no example of real change mass into a specific quantity of energy or vice versa.

Some explanations point to specific units of energy, the Hiroshima bomb for example or a ton of TNT, to measure the result of explosions. These units however are not particularly accurate!

2,6 - Actions - Motions

The free electrons of the Ether of space move randomly in the environment they create, encouraged by their vibrations and meeting other objects.

It then occurs one of the two following phenomena, **a change in their movement or binding with another**.

These are the only two possible actions by electrons across space and the materials of the objects.

In this section we study the motion.

The creation of the compounds will be the matter of the next chapter.

The free electrons of the Ether have no reason to move.

They are close to each other, and their own vibrations incite them to move a little, or give them an impulse for movement in a certain direction, that nothing can change, or stop, except the meeting of another object.

The prompted displacement is rectilinear and unlimited, without need for special forces that would be called momentum or inertia.

When electrons move, they can meet other free or constituents of matters and objects. The displacements of the two elements which meet are then modified, based on their participation in compounds.

We will see in the next chapter that the connections, that sometimes occur at these meetings, are always accompanied by an increase in thermic agitation. This phenomenon stems from the normal rules of operation of the electrons. The created compound, larger than electrons met, create more opportunities for meetings.

We saw in chapter I that the Universe operating system is random. It has no general operating rules alongside those of electrons. All connections are made at random, as much the meetings themselves than the environment in which they are realized.

These movements of particles and free compounds, by their own vibrations, and their sending back after meetings, at the same time realize a new distribution of elements that create clutter.

Under certain conditions, the new created compounds are distributed with all objects of the disorder.

It is a constant balancing. The elements are distributed in varying dimensions areas without clear boundaries, constantly moving.

Thus, in the free areas between the atoms and molecules organized in materials, components free are distributed and eventually do evolve these materials.

2,7 - Rays and radiations

Radiation and rays are terms that refer to all objects, material or not, that irradiate from a centre to a wide range of distances, depending on the quality of the "radiated" elements and the clutter present in the environments traversed by them.

Getting away from the centre, the volume of radiated elements does not change, and the crossing area expands, the meetings of other bodies are progressively fewer.

In the physics of the Universe, all rays, in space and in objects are movements, of different bodies, dragged, during their contacts with each other, by the expansion movements of the electrons which compose them. They cause more or less electron bonds with increased **thermic agitation**, which is nothing but the general movement of these elements.

Thermic agitation is only the movement of these elements.

This explains why the most simple bodies, free electrons and primary compounds are the fastest. This is the case for X and gamma rays and other radiations.

These rays are stopped and "absorbed" differently from one another by materials encountered. The absorption means they bind to other, creating new compounds with new increased thermic agitation.

Plasmas are created by an increase in meetings and electron bonds in compounds. These compounds grow depending electrons that bind which leads to other contacts and an increase in thermic agitation.

This phenomenon is inevitable.

There are in all matters and objects, mostly in the stars.

It is activated at the beginning of the formation of these objects in the nebulae and other structures in space. This explains their development, in billions years until their destruction forming other objects. We studied in chapter 1.

During the withdrawal movement of vibrations, close elements occupy the place left vacant by electrons or compounds that retract. They seem to be attracted, which is not correct: there is only the expansion of neighbouring electrons.

In all the events that take place in the matter that we know and its objects, expansion and withdrawal movements that are side by side and simultaneous can be interpreted in two different ways, either as an expansion repulsion or as a withdrawal attraction.

This led to was called magnetism and magnetic fields objects and phenomena difficult to understand that we are trying to explain in the next chapter.

2,8 - Thermic agitation

Vibrations and **thermic agitation** are phenomena which are very different from each other.

The vibrations of electrons are permanent and unchanging movements of their constituting matter.

Those of the compounds are the resulting vibrations of their constituents, depending on the quality of the connections. Atoms, molecules, crystals and other bodies of our constituted matter, vibrate in these conditions.

They begin to be observed and studied.

Thermic agitation, in a specific area, designates the average state of the radiation movement of elements which cause contacts, sometimes followed by links with new radiation.

The quality of movements depends on the overall vibrations of the compounds.

In the various matters and in space, the transfers of "heat", whether natural or forced, are produced by radiation, which create in turn electron entanglements directly (that is conduction), or with the participation of intermediate elements (convection).

Thermic agitation is measured by temperature, the unit of which is the kelvin. With the same scale, we use on Earth Celsius degrees. Other measurements scales exist.

In space at zero kelvin, the vibrations of electrons take place normally. The temperature of zero kelvin could be that of space without any activity except that of electrons vibrations.

The temperature is currently about 2.85 kelvins, in the free space between galaxies. It shows the average level, in this space, of thermic agitation imparted by the electron bonds and the creation of objects inside galaxies and in their environment.

The recorded radiometrics of identified different temperature in some areas of space could correspond to disturbances creating waves of space, probably during electron intricacies of WHIM. See chapter I.

There is no reason why these temperature should be due to a "fossil background radiation" that could have remained attached to elements of its time, or that these waves of space with a "radiometric" frequency report a space temperature at a specific moment in the evolution of the Universe. It was and is still, it seems, the concept of their discoverers, though they have received the Nobel Prize.

We cannot imagine the visible, physical consequences of temperatures of one or some billions degrees or kelvins in the stars or other objects in space. These values are an assessment of thermal agitation unrelated to heat, explained below.

Heat is the human perception of thermic agitation.

Henri Poincaré stated this idea.

For all living beings, it is the result, perceptible or not, of actions due to thermic agitation, in their bodies. Burning, for them, is a modification of certain constituents of the cells by unusual electron bindings. New compounds are created, sometimes unwanted and often irreversible, for example in the case of burned cells or tissue—a phenomenon that can have serious consequences on the life of cells, tissues and living beings themselves.

This is particularly the case for contacts of living beings with radioactive particles from nuclear reactors and in radiotherapy.

Chapter III

FROM ATOMES TO GALAXIES

- 3,1 - Electrons' contacts,
- 3,2 - Entanglements,
- 3,3 Gravity,
- 3,4 - Gravitic clouds,
- 3,5 - Magnism, 3,5,bis - Other Phenomena,
- 3,6 - The Matter,
- 3,6,a - Nanoscience, 3,6,b - Electron, 3,6,c - Atoms,
- 3,6,d - Molecules and Matters

April 2016

3,1 - Electrons contacts

In the previous chapter, we saw that the only two possible actions by electrons, throughout space and in the objects matters, are a modification of their move and their binding with one another.

In this chapter, we focus on the electron bonds to create compounds and the matters of all objects in space.

Contacts of free electrons or already participating in compounds, cause sometimes, randomly, connections that modify compounds or create new ones. Without consciousness in the Universe, these actions cannot be planned or controlled. They must be **automatic**.

They always take place, according to precise operative modes, that do not depend either on particular circumstances, or on previous phenomena, but **only of their intrinsic qualities and their strict operating rules**, leading always to the same precise actions, in any situation.

These actions are realised always on primordial level, since it is the electrons that act and create the bindings.

One **must remember** that the electron is a particle which measures 10^{-18} meter medium radius, that is to say, **a millionth of a billionth of a millimetre** and that all objects in the Universe are exclusively composed of electrons.

The average atom, as presently described since early 2,015 by the current physics, measures 10^{-10} meters, that is to say, it is a hundred million times larger than an electron.

The properties of electrons, free or already combined with others, are never modified. A free compound or atomic nucleus, whether it is formed of two, two hundred or two hundred thousands electrons retains all the characteristics of electrons.

Electrons are never merged: their masses are not confused. **Quanta of matter remain always individualised** in all the complex structures they form.

Because of their vibrations, electrons do not easily connect to one another. To do this, they must be forced to stay together after their contact.

In these circumstances, the best mode of connection is **their physical entanglement**, which is the status of closely entangled things.

Its implementation requires specific physical characteristics for electrons: it is necessary that their external structure allows a sufficient contact under certain conditions of their vibrations.

If the movement of "contiguous" electrons occurs at the same time in their vibration cycle, entanglement occurs.

This phenomenon takes place only when exists a contact of a certain quality.

They could be of two kinds:

- Hard meetings, rigid. The vibration movements of the two electrons are in different phases of volume, maximum and minimum. They can not bind and seem repel, in different ways, depending on motion speed and direction of their contacts

- Soft meetings take place when the two electrons are in the same phase of their vibrations, with volume maximum or minimum; they vibrate side by side and an-entanglement is likely to occur.

Our way of explaining human time, to the first chapter of this essay, allows us to think that there may be intermediate contacts that would create more contacts opportunities.

The precise state of the movement of electrons in contacts is always random and conditions permitting intrications are infrequent, at least in the material that we know on Earth.

It is always the electrons that carry out the operations in the space free of objects and in the materials of objects.

These actions are classified as electric, electricity being the phenomenon that makes the connections while the electrons do not contain any force or "energy" that would be responsible to perform it.

In these materials, "useful" contact of electrons already combined with others, is not easily realized because their movements are slower.

They may become with a time of successive contacts without effect. Thus the creation of certain materials may require accelerated successive moves by other contacts, creating an increase of thermic agitation. This is the need to supply heat for some syntheses or use catalysis, processes which are explained later in this chapter.

All creations of materials and objects are always very random, with very slow achievements that are sometimes sensitive to us by the hysteresis.

They could explain the almost eternity of the Universe.

3,2 - Entanglements

Because of their vibrations, the electrons keep permanently their shaped ball, with variable diameter, minimum and maximum.

The state of electrons determines their connections.

Each electron accepts a small number of bonds in that they are spherical, and the same average volume, despite the variations due to vibrations.

Since Kepler and Gregory, in the 17th century, many physicists and vegetable growers were interested in the volume of oranges piles in displays...

The number to remember for oranges and electrons that can reach is 12, around a thirteenth, with some margins due to wilting of citrus fruits or volume changes and the entanglement of electrons.

Each electron may not be surrounded and firmly entangled, by more than 12 other, whatever the circumstances.

The intricacies are irreversible.

When the action is possible, it is always realized. No device or conscious program exists in the Universe that could delay or prevent it.

A new action can take place immediately after, but it is absolutely not related to the previous.

No component, free or participant to another object in any matter whatsoever, can not return to action to restore the previous situation. The only new changes are other linkages which swell or bind the compound to another.

3,3 - The Gravity

At their intricacy, the electrons bound to apparently form only an object, can not "physically" develop fully during the expansion, and volume of compounds is smaller than the sum of volumes of components.

This reduction is carried out on the volume of the compound, without any modification in the characteristics of the electrons themselves. Its mass does not change and corresponds to the total component masses.

Relative to the volume, it is increased, forming a contraction of the mass itself, such as an indoor attraction.

It is gravity.

It is adapted to the compound in which it is formed.

This compound is still part of a package which also has its gravity.

All bodies and objects show a common gravity, resulting from that of all components.

Its "strength" is proportional to the amount of electrons; it is relatively larger with the links between "graves" or heavy compounds, having a bigger amount of electrons.

Gravitation was studied in the 17th century by Newton, who resumed the work of Galilee and Kepler. It also embodies the idea of the first observers of the space, a force that held together the stars in the firmament.

Despite all his research, observations and reflections, Newton found no explanation for this phenomenon. He then proposed a gravitational attraction that would link all bodies by their own mass. This approach was understandable because the studies he was undertaking were all performed on space objects within our galaxy. The scientists of the time did not distinguish between the space of the galaxy and of the Universe. All known objects were bound by the gravities of their galaxies.

But it was risky to generalise to the entire space of the Universe still barely known.

At the same time, he wrote that it could not exist: "I restored to physics that thing "prohibited" since Aristotle: "instantaneous remote» action. And he sent a letter to Richard Bentley in 1692: "Whether gravity is innate, inherent and essential to matter, so that a body could act upon another at a distance through a vacuum, without mediation of other things, by which and through which their action and strength can be communicated from one to the other is to me an absurdity that I believe no man, having the ability to reason competently in philosophical matters, could ever be guilty of". At the same time, he implicitly confirmed the existence of the Ether of space, which at that time, was misunderstood but was not questioned.

Physicists at the end of the 17th century did not easily accept his ideas. It took almost thirty years in order that, in France and Germany, Newton's works were recognised, but not always accepted.

It is amazing that today physicists and commentators relate only very rarely these doubts of Newton, while evidence of the gravitational attraction of the masses has not been found.

The findings, beginning of 2016, of Ligo and Virgo interferometers, are not evidence.

Two centuries later, Einstein takes up the idea, which leads him to invent what he calls the curvature of space by the mass and energy of objects. This has never been observed.

It is very difficult to imagine such a "curvature" in a limited volume or in any space, and imagine the contre-bends and other distortions.

Currently, at the beginning of our 21st century, physicists still into account the mass gravitational attraction, despite the negative results of all searches for a possible vector. Some scientists have come to regard it as a fundamental constant with a value based on that of some places on the Earth when it is essentially variable.

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No scientist has ever found a justification for an attraction between the galaxies and other space objects.

It has been observed that the strength and the limit of gravity on our planet vary from one place to another in the atmosphere depending on the place, due to the quality of nearby materials.

It has never been possible to find a precise figure for the average force of gravity on our planet. It is not fixed, even if the variations are not very important.

In the space of objects, a particle, or other moving body may encounter an electron, free **or already participant of a compound.**

There is entanglement or new displacement.

If there is new movement rays are able to:

- Or stay inside, immediately meeting other elements. They take on greater importance, increasing its mass and gravity.

- Either move outwards in the more free space, without immediate contact with other particles and compounds.

3,4 - The gravitic clouds

Rays can head outside, free space, where they meet a variety of compounds, the amount being reduced with distance.

When contacts are taking place with these objects, they react as elsewhere, by sending back or link, modifying compounds and creating new radiation particles and small objects more or less interrelated.

Around the basic compound, it is created a lot of small compounds which form one or more moving clouds.

The compound and its clouds are separated or treated as such by the fact that they form different objects.

This separation is not a jacket but is a natural limit created by the rays tangent to one or the other object.

This explains the limits of objects in space, star, planet, into each other around other galaxies and star clusters.

These limits are not regular bonds because the electrons are always performed at random from their contacts.

It never occurs the "smoothing" of such limits; the particles and radiation, moving between objects bind with others where they are, at random, regardless of the forms of existing "limits".

In these areas, physicists, technicians and researchers in nanoscience and technology are faced with unforeseen difficulties which lead them to think that the atom, and other compounds, are of very different shapes and actions than there of compounds in a ball shape, which was assumed in physics for nearly a century.

A similar limit exists outside the gravitic clouds of compounds and objects even the stars and galaxies. This is a clear separation between the clouds and the surrounding area of space.

This does not preclude the presence and possible development of compounds that could be created in large areas between galaxies and large structures.

The outer cloud decreases and disappears with distance. As long as there, it remains attached to the base body, depending on their respective masses and activity of radiation, corresponding to the thermic agitation. It is maintained and continuously renewed by the rays which come from the basic compound and particles of the normal space, coming from varied more or less distant objects.

This cloud can be qualified as gravitic.

The gravitic clouds vary according to the average temperature of the surrounding medium. Thus small compounds have no procession particles forming gravitic clouds. They themselves have no substantial gravity and remain free independent elements.

These elements are difficult to quantify and similar compounds may have different gravitic clouds according to their environment. Which further increases the complexity of the components of materials.

All other compounds or objects from a certain level by the number of electrons within them, to the largest bodies in space, galaxies and their clusters are surrounded by atmospheres that are their gravitic clouds and are always linked to the main body with their changing limits which depend on the density of elements in the surrounding medium.

These atmospheres are formed of particles of various compounds, elements from key objects and varying with developments and actions in the main objects near or distant.

They are of great importance in the shape of planetary orbits around their star, and in the form of galaxies, what we study quickly below and in chapter I.

According to the objects and circumstances, mainly the level of thermic agitation, the gravitic clouds, even of small objects can take great importance and clouds, neighbours in space, can intermingle and confuse one into another, resulting in more or less strong bonds between objects which form the cloud.

These are the **gravitic links**.

They concern all bodies, compounds and objects such as, for example, the accretion of elements within the nebulae to form stars and other objects, galaxies and mergers at our level in the field of our planet, small electron compounds, atoms and the formation of very numerous and massive molecules or conglomerates of different materials.

In some cases, the gravitic link may facilitate entanglement of the electrons of the compounds of gravitic clouds.

This is the principle of catalysis: two compounds, which naturally is difficult to approach, can bind "gravitically" at the same time to another; thus they are close enough and electrons can be entangled. Nothing changes for the "catalyst" which remains linked to the new compound formed gravitically of previous two. This phenomenon, which we, living beings on Earth, voluntarily use, could be of very common application in the natural changes of all compounds of matters of space objects.

3,5 - Magnism

We have just seen that the gravity and constituents radiation create a virtual envelope around all objects and materials, at different levels.

They can touch, thus forming more voluminous body or be separated from the other by a more or less large space.

Between materials and different objects, then establish zones which can be disrupted by radiation from objects. Observations are often difficult both to know the origin of radiation than the reasons and results of actions.

Historically scholars have regarded them as **electrical, magnetic or electromagnetic** phenomena. In the 19th century Maxwell theorized them with mathematical equations, without explanation.

Électronisme theory states that there is never attraction of an electron or any other element with another.

Magnetism does not exist.

Magnetic rocks and the magnetization we find on Earth are not yet explained.

A recent study by laser specialists Australian researchers, Dr. Cyril and Vladlen Shvedov Hnatovsky led us to think that the phenomena they discovered and described, could guide our study of magnetism. They explain that radiation in the atmosphere near objects, could carry small particles along, while considered attracted.

Their theory can be supplemented by recent observations and particularly by the fact that the attraction or repulsion of objects still involve only light elements, for short distances in the atmosphere.

With the latest scientific observations, we discover that these phenomena are not restricted to physical objects we perceive directly. Inside the objects, materials are created by many different bodies, with their gravities clouds more or less entangled, and other compounds that fit into the spaces between these clouds.

Thus, there are many areas, more or less visible, between materials and objects with surface and interfaces manifestations within all objects, quite similar to those we easily observe outside.

We call *magnisme* all manifestations of matter in these boundary areas between all compounds and objects. Many are not sensitive directly by us and enhance the randomness of all the operations of electrons in materials and objects.

These are mainly the following events:

- Adhesions, surface tension and capillary action.
- Static electricity and other electrical and electronic phenomena studied with semiconductors and superconductivity.

Current research in nanoscience and technology make us discover some features that are of great importance in achieving artificial phenomena necessary for our activities of living beings on Earth.

It is remarkable that superconductivity at low temperature, manifests itself especially with many different materials including atoms which probably contain more free areas sensitive to magnisme.

The 'magnic' area of Earth, other planets and stars, corresponds to the limits of the atmosphere, with special areas such as:

- The limit of winds of the Earth in those of our star, which creates, as it is observed, a protection belt against some cosmic radiation.
- The areas between the atmosphere and outer materials of our globe, especially maritime areas and mountainous masses, with consequences for weather observations and use of compasses for navigation.
- The creation of clouds, tornadoes and cyclones, wet and dry.
- The possible influence of winds particles and groupings of objects in galaxies and other structures.

So be explained how stars and their planets and other space objects are organized into galaxies and other clusters, by the actions of gravity as explained in our theory.

And we could **attribute to magnisme** maintenance and evolution of these structures.

3,5 bis - Other phenomena

We have seen that when electrons bind and form compounds, there is a reduced volume relative to that of the separated electrons.

This reduction of the volume of space electron could create a vacuum in the space. By their normal operation, electrons prevent it, by unusual movements, creating in the Ether of space, disturbances moving out at "speed of light" - what we explain in chapter IV -. They are sensitive to us as waves, qualified currently electromagnetic.

In some areas, the formation of compounds or their magnification, creates more possibilities of contact between elements with the result:

Either many more connections between the electrons,
Or further displacement of compounds which are radiation whose number is increased.

This is a local increase in thermic agitation, a phenomenon that is growing and increases by itself, leading to another, that of all the events realization frequency.

Inside links may vary with the quality of contacts. The vibrations of electron compounds can be amplified or reduced otherwise.

Thus thermic agitation we perceive as heat can vary greatly from a compound, material or object to another, without being bound by volume appearances or other benchmarks.

The fact is noted in the end 2014, in a study of phase changes in the material, which shows that the changes are moving within the compounds or crystals, instead created from the outside.

(<http://phys.org/news/2014-11-transitions-states-complicated-scientists.html>).

If it is sending back electrons which occur, the body apparently moves like a beam whose quality is that of the body itself.

The compound itself "realizes" its movement: the expansion of the body against the one with which it is in contact, causes its movement which continues until meeting another element.

Thus the rays are differentiated by their own qualities and those of the environment, where they meet various objects more or less numerous.

Free electrons move at the speed induced by the movement of their expansion, we know instant.

The other body, firstly compounds and all most important objects, form rays of very different qualities, depending on the action of their vibrations within the compound. Some movements can be neutralized; thus reduce the power of the external actions, while actions are increased on each other inside the compound.

These actions are very varied. All values exist between the called gamma (they would be formed of a free proton), X, beta or other and larger compounds which run like rays. Technicians on Earth know how to use them according to their needs.

In Chapter I, we note that the material of the comet Tchouri is lighter and less dense than that of our planet. As if the condensation of the material, as will be explained here, was arrested, probably because of a too low temperature of the surrounding environment. While the material of the Earth, and all

other objects, would have continued to condense for a number of billions of years.

This difference between the materials of Tchouri and earth also confirms slow and permanent changes inside of objects, with increased gravity and the same quality of contents. For large objects, this can last very long. On Earth and for our normal use of summaries and other chemical phenomena, events are slower but exist permanently at our levels and duration of observations.

3,6 - The Matter

3,6, a - Nanosciences and biology

Nanosciences are at the limit of the observations between disparate electrons compounds - which we know little - and those involved in the creation of atoms, which are the basis of the matter.

Technicians, engineers and researchers, know how to handle the materials they need, particularly in the electrical, electronics and biology. It is **their observations** during their research that give us many indications about the qualities and functioning of the materials at level of atoms and molecules.

For the first time in nearly a century in the history of physics, the ideas of physicists are beginning to change:

"Collaboration" between Cornell High Energy Synchrotron Source (CHESS) and researchers of the subject, declares that the actual structure of the material is much more complicated than when (atoms) were treated as small spheres. April 2014 information.

Scientists use equipment in continuous improvement, especially microscopes (and nanoscopes) they adapt to their needs. Current observations provide very important information for the knowledge of the creation of matter and objects.

In biology, the researchers and technicians are familiar with the proteins that are the main components of living matter. They describe them as composed of atoms and molecules of varied forms, mainly **flexible and multiple tape** nested or folded over themselves, able to permanently change by replacing small parts, modifying the qualities and actions in cells.

These structures could also exist in the mineral.

3,6, b - Electrons

The operation of the electrons shows that all bonds, one after the other, form objects whose thermic agitation increases gradually as new connections to a certain level that results in their destruction.

Free electrons are round in shape, due to their operation way.

But from the first links in the space or material at the temperature of our planet, without particular pressure, the compounds have very different forms and may often look like ribbons packets, or strings more or less linked to each other comparable to certain proteins of living beings.

The protons produced in stars and their nuclei mergers do not form cylindrical body.

3,6, c - Atoms

All phenomena, explained in the opening paragraphs of this chapter are available for all compounds, of which the best known among the small objects, is the atom.

For two thousand years, it is considered as the main constituent of matter throughout the Universe.

It has been described in different ways by many scientists, particularly in 1913 by Niels Bohr. After him others in quantum mechanics have studied and proposed overly complicated operations.

Very few researchers, physicists, chemists, were interested in its structures. Its spherical shape has never been questioned, and actual practical bonds between its components have not been studied.

With Électronisme, the **atom is a normal compound of electrons**, with the feature, for us living beings, of sentient us almost directly, because of its size and capacity of our current observational tools.

It has another feature of being formed around a core created in a special structure of the material.

It would consist - according to the generally accepted model - of a proton and neutron core, surrounded by clouds gravitic formed out of many electron compounds.

To realize our ideas, **we propose a model, knowing that very many other are possible.**

The protons are created in stars and other objects in space with very high thermic agitation.

They could be almost ball-shaped, consisting of a specific number of electrons, which, according to their mass, should be close to 1836.

Neutrons, like them, may not be created in the stars, but in the nebula, at low temperature, at the beginning of the formation of matter. They break up into several small compounds, when separated from their atomic nucleus.

More protons are "fused" to form the core.

This fusion corresponds to entanglement bonds, more or fewer electrons constituting the protons with electrons.

Protons fusion could be achieved in different ways depending on the circumstances, the number of protons and bound in special conditions that would give certain characteristics to the cores created and used to remake the materials.

It is currently considered by scientists that the core constitutes the largest part of the mass of the atom, and the "valence electrons" realize the connections between the cores for binding of atoms and molecules.

The gravitic clouds of core components are relatively large in terms of number of electrons that constitute them.

They thus perform a large volume of space around the cores, with strings or ribbons electron, more or less overlapped, depending on the variable thermic agitation, without change, to a certain extent, the quality of formation of atoms or those already formed.

They keep more or less long bonds direct connections with core components.

Links with additional free electrons or already participants in the compounds may be very important, preparing the phase change of the material created.

The phase shift threshold may vary depending on the characteristics of the materials.

Atoms are shaped excessively varied according to their creation, giving them very different qualities.

Their structures require relatively precise links with other of the same qualities and explain various other molecules for various materials.

These atom and other compounds forms begin to be recognized by searchers, particularly in nanoscience.

The Magnisme explained in the previous paragraph could be of great importance in the creation of atoms, molecules and additional compounds witch are formed in the voids of the main compounds.

Are still named atom, the cloudless cores in materials with high thermic agitation, such as plasmas, on Earth and in the stars and other objects in space.

3,6, d - Molecules and matter

In objects of space as long as the thermic agitation is low enough not to turn it in plasma, atoms and other compounds of electrons of a certain mass, are surrounded by gravitic clouds.

These gravitic clouds of nearby atoms can combine, forming various molecules of similar or different atoms, more or less stable in very specific conditions, which are still poorly understood.

In these combinations of atoms, further intricacies and "gravitic mergers" create relatively complicated structures. They resemble the mineral or organic polymers currently observed: tangled strands electrons compounds, more or less 'overentangled' linking atoms and molecules.

We give the name of **neomolecules**, term used in technical texts for groups of various molecules. They are studied particularly in nanoscience.

Macromolecules are polymers of similar chemical compounds and molecules (single) of similar atoms groups.

The connections of atoms together, alike or not, are always made by their nuclei. This results in more or less complete interpenetration of their gravitic clouds.

These links are not necessarily entanglements that would mean irreversibility with increased thermic agitation.

The molecules created by interpenetration of gravitic clouds do not necessarily create increased thermic agitation, since there is no entanglement of electrons. They come apart easily.

The **gravitic clouds of molecules are less bulky** than those of accumulated components. During the creation of all molecules with binding of nuclei, it emerges free electron compounds that may have specific uses.

We still have a lot to understand, as a more or less rapid formation of amorphous material or crystals that are realized in the forms that are steering with difficulty.

We know to create and use heat and cold, but we can not control the shape to give the material or liquid or solid phases for particular uses. Technicians can create materials they need, but we do not yet know how to use individual molecules of special atoms to give the material the desired shape.

This is the case for speeding up or slow transformations of material, such as in catalysis, explosions to slow somewhat or heat generation.

3.6,e - Death of Stars, materials and Living Beings

The creation of matter from the bonds of electrons explains the death of stars, by excessive thermic agitation.

In the Universe, all free objects and all those involved in the creation of other bodies in all matters have their "life" limited in the same way by increasing the thermic agitation which would be blocked by their environment.

This would explain the forms and dimensions of all objects and the death of living beings.

CHAPTER IV

THE WAVES OF SPACE LIGHT AND OTHER USES

- 4.1 - Disturbances of electrons in the Ether of Space,
- 4.2 - Disturbances Independence,
- 4.3 - The waves from space,
- 4.4 - Their Qualities,
- 4.5 - The Photon,
- 4.6 - Lighting, Pictures and Sight,
- 4.7 - Other Phenomena

May 2016

4,1 - Electrons Disturbances in Space Ether

We saw in the previous chapter that, upon binding, electrons could not develop fully. The volume of new compound is lower than the aggregate of its components.

This causes various phenomena, some of which have been studied in chapter III, such as internal gravity, the gravitic clouds and increased thermic agitation. It also creates a disturbance in the arrangement of electrons in the Ether of space.

Here we take the latter phenomenon.

Reducing the volume of compounds with respect to individual components, could create a vacuum in space.

This vacuum is unacceptable and neighbouring electrons automatically change their movements - encouraged by their vibrations - to prevent this vacuum.

As soon as the volume of these volume reductions is "sufficient" in a specific place, neighbouring electrons are moving to this place as possible empty.

It is a "negative" movement, to a specific place.

In ongoing studies on the behaviour of sound waves, teams of researchers in Pays, Bordeaux and Winnipeg in Canada were surprised by a phenomenon that had already been observed in 2001 in "electromagnetic" waves and microwaves. It had not been explained:

Out of the researchers text, we read: "The material developed in Bordeaux provides, in addition, another remarkable property: the waves are progressing backwards. The sound, a sound wave, even has its energy spread from the source to the receiver, but the oscillations which it is made, are propagated in opposite direction. Experts speak of "negative velocity phase".

These observations may be a validation of our theory of an environment disturbance waves.

And, going further, our whole theory of Électronisme.

The elements of the environment, **from all around**, are too many and turned immediately to the outside where the same phenomenon occurs.

Upon their departure, they were replaced by electrons around. There are still very short accumulation around, a little further.

The phenomenon is repeated without interruption until the end of the environment concerned, where it then lack of elements of the environment and **the phenomenon stops**.

These displacements, negative, and "normal" are carried out at the speed of the vibration expansion movements of the electrons, everywhere, even in the materials of the space objects where still exist Ether electrons.

So that speed is always the same in space.

We will see later that it is the speed of light.

These disturbances of space electrons, with their accumulation that moves, are not visible to us, but ALL living things feel them unconsciously.

4.2 - Independence of disturbances

We have seen in previous chapters, that according to the operating rules of electrons, all events in the Universe are randomly done and are not related to each other. This is the case of the first entanglement electrons into space to form disturbances.

These disturbances are all independent of each other. So are the waves we observe.

This is an important phenomenon that explains that the waves never interfere with others.

All actions of the waves-disturbances are independent both in space in general, than for materials, especially with the internal space of living beings, as explained in Chapter VI, for the transfer of information through their nervous system.

This does not preclude that similar phenomena are realized in limited areas of very variable dimensions.

Our quality of living being has accustomed us to accept them as different perceptions of almost similar phenomena.

4.3 - Waves of space

So we know that a phenomenon exists in space: the disruption of the arrangement of electrons in the Ether of space. We cannot see them, but they are noticed by some of the senses of all living beings.

We will see in chapter VI that are mainly of touch and vision.

These senses do not allow us to understand them properly, because the events are too fast and too numerous.

We only perceive as a picture which brings to our senses, the most important features of these events:

- Number of events in a given period, That is to say the frequency of such events,
- Dimension of the elements, i.e., their amplitude.

This is a wave or a waves train which move very rapidly to the end of the concerned environment.

To our senses, and adapted material, the wave is characteristic of the event that formed and lasts more or less time. For light, for example, this may be the time of a spark or flame of a candle, or millions or billions years of the brightness of a star.

Other events may cause waves in space at different frequencies, radio, odours, etc.

Since the 19th century, scientists have explained the so-called electromagnetic waves, including light, as analogous to the ripples on a pond when a stone is thrown, and sounds in the air.

So they knew that waves require a concrete environment.

The waves on a pond have never been explained.

They are directly related to disturbances created in the liquid medium, by **a pebble thrown into it.**

The pebble slips into the water of the pond and could create a vacuum of "water" if the void was warned by the rapid movement of quantum of water all around, as we have explained above for the electrons of space. The elements that move to the place of empty can are higher than necessary. They are turned back immediately. The phenomenon is repeated constantly.

This creates a wave accumulation that seems to move away, around the base, always at the same speed which is that of the movement of quantum of water in their liquid environment.

The total amount of water displaced, on a very large distance, can be **much greater** than the volume of the thrown stone.

It is the shifting of the stone in the water, at a certain speed, which creates a wave in the pond; if it is slowly put, the water is not disturbed, there are no wavelets.

If the pond has a certain depth the stone can cause several waves.

A handful of small stones can cause waves that we perceive as a momentary wave.

We find this function in **tsunami**. It is a very special event to which Japanese fishermen have given a name that means "harbour wave". On their way home, they found it destroyed by a massive or very massive short-term increase of the level of the water, though the weather was calm and could not explain such disaster.

Tsunami is a particular wave by its way of creation.

During a **sea or ocean earthquake**, the **sudden collapse of tectonic plates** create in the body of water, a vacuum which cannot exist.

To prevent this, the "quanta" of water all around move towards the collapsed area, and others follow to fill the new holes by their movements, and so on until the end of the ocean.

That's how accumulations of water are formed, instantaneous, successive, similar, of the same height, which come one after the other and get away from the event, to the end of the ocean, at the speed of movements of quanta of water in their fluid medium.

The arrival of a tsunami on the coasts, even thousands miles from the starting point of the wave, is always and everywhere preceded by a **slight decrease in the level of the ocean**. This is the negative displacement observed by researchers of Bordeaux.

The accumulation waves height is the same near the scene of the collapse of tectonic plates, and at the end of the ocean, far away all around, and consequently with a displaced volume of water which is generally **much larger** than that of the collapsed area.

The arrival of the tsunami at the « end » of the sea stops the phenomenon due to that no more quanta of matter exists that would maintain the moving accumulation.

Thus, on coasts, **tsunamis stop without force** to push waves on; any provoked damage is due only to the natural sagging of the wave that stops and disasters are more or less massive depending on the topography of the coast and the presence of people.

Not all great waves are tsunamis, many are not, such as rogue waves and those, huge, created by major collapses in the ocean of glaciers and cliffs, or those formed by surface winds and sea swell. The current huge subsidence of Arctic and Antarctic polar cap ice sheets have never created a tsunami.

In July 2012, experts said they had discovered why the earthquake of magnitude 8.6, off the coast of Indonesia, on 11 April 2012, did not create the predicted tsunami. The movement of tectonic plates was supposed to have been slow and horizontal, contrary to the usual vertical movements.

In modern physics, there is no understandable explanation of the so-called electromagnetic waves.

We find everywhere the same definition: it is "the spread of a perturbation producing on its passage a reversible variation of local physical properties of its medium. It moves with a certain speed which depends on the characteristics of the propagation medium. A wave carries energy without transporting any matter."(Wikipedia French Version).

All this corresponds to the observations, but it lacks many explanations:

The word "disturbance" can be translated as "disorder in a mechanism."

Thus, it is necessary to know the disorder and the mechanism or environment.

"Reversible variation" of physical properties: therefore there is a real provisional modification of the "medium", which is recognisable by its "physical properties".

This confirms the existence of the Ether of space.

Furthermore, it is surprising that since the 18th century, particles have been considered to possess a frequency, with no indication of its nature, and without physicists considering this, until Louis de Broglie attributed to them the singularity of being both wave and particle at the same time. He gave no explanation of this physical phenomenon, while countless mathematical developments were leading to quantum mechanics and the theory of the Standard Model that has never shown how to create matter.

The wave-particle duality is used only in this physics, with misleading explanations, such as the metaphor of the cylinder which is nothing but a special case of the normal observation of a three dimensional object.

After Newton, different physicists, in particular, Huygens, Fresnel and Hertz, were interested in the variations of light, seen as a wave in space and matter of our planet.

Maxwell and Lorentz have likened to electromagnetic phenomena that have never been seriously analyzed and explained.

Depending on the quality of the waves, especially their frequency, contact with other objects can simply bypass more or less obstacles; thus say the waves radiations have different behaviour depending on their wavelength and the environment.

This is also the explanation of phenomena called "gravitational lenses" that can "receive" bundled information from an object whose wave disturbances bypass an obstacle, which in this case may be an entire galaxy.

Considering the limits of the frequency changes, we have on the one hand very fast disturbances of compounds radiation at the same speed as disturbance of space. They merge to form X-ray, gamma and others.

On the other side, to a minimum of disturbances, the intricacies are infrequent. This is the case of all those at the beginning of the formation of objects in nebulae,

at the very low temperature of space and all changes, insensitive or barely perceptible in the field of our planet.

At a certain frequency of electron compounds creation, in a given area of a nebula where matter is formed, the "radio" waves could signal us with suitable receiving equipment, the beginning of the formation of protostars.

This is a possible explanation of the "background noise", discovered by Penzias and Wilson in 1964, which was recovered by the Standard Model of cosmology and designated as the "cosmic microwave background", which has no reasonable explanation.

4,4 - Waves qualities

Physicists know how to represent waves of all disturbances of space objects, and those of so-called empty space. They can establish their **observation spectra**.

Newton was the first scientist to use light diffusion to study different types of waves.

In the following centuries, spectrometry was applied to all the waves of space and all the materials in different environments. They were distinguished by their wavelength or the frequency of their disturbances.

The researchers observed that the speed of their movement is invariable in a given environment, the "vacuum" of space for example. It is almost the same in objects, because the disturbances concern the space itself, Ether, which also exists in all objects.

Spectrography of the set of all the waves shown in each category of disturbances and their environment, a dimming frequency from the very low (high or very high wavelengths), to very fast.

A specific part of them is considered to be waves of light, and they are not different from others, but some living beings know how to use them.

They have never been considered dangerous. There is no reason to think that those of phone could be. There are the "electric shocks" in the atmosphere too close to them that would be harmful to users of mobile phones.

Waves of space have **the same behaviour everywhere**, which depend only on the frequency of the disturbances.

These manifestations are especially studied for waves of light: reflection and refraction, diffusion, diffraction and absorption, but they exist for all wave types, from those at very low frequency radio waves, to the ultraviolet waves that mix with the radiation of particles.

For all the phenomena explained above, the **movement speed of disturbances correspond to those of the movements of the quanta composing their material** in the material itself. It therefore varies with this material.

This is how human beings can recognise the quality of the material of the Earth's crust by observing the speed of the travelling movement of a shock wave from an explosion-disturbance in the matter to study.

For space waves, the travel speed of disturbances and those of the cells constituting their waves, corresponds to **the speed of the expansion movement of electrons**.

In Universe, it is the only invariable speed.

In a given medium, all waves have the same amplitude, because they are always and only due to movement of medium quanta, like electron in space: this amplitude is close to the diameter of an electron, that is to say an attometer, a millionth of a billionth of a millimetre.

This low amplitude and the extremely high speed of movement of all disturbances, allows for some overlapping or encounters of disturbances without significantly changing them.

The frequency of electron entanglements gives the frequency of intricacies of disturbances and is never regular because creations and modifications of compounds are always random.

Space objects are in a state of permanent modification with (relatively) many electron intricacies. Disturbances are therefore generally numerous in specific areas, and spread more or less over time. That is the reason why stars send, for a long time, in the space that surrounds them, perturbations due to the entanglement of electrons **in their periphery**, at frequencies that make them visible to us.

We receive those of our star, the Sun.

4,5 - The Photon

In the early 20th century, Einstein, Planck and de Broglie invent the photon, light particle, which would be simultaneously wave and particle, then declares that all elementary particles - and others - have the same duality and invents the wave function which has never been explained, except by the proponents of quantum mechanics. Their explanations are difficult to understand.

As a result of these proposals, the photon, which should be the size of an electron, is handled, used without reservation by physicists, with the qualities they need.

In current physics, the photon would be created from naught - in an uninterrupted manner to provide all information that we perceive - wherever it appears necessary. Its qualities are not constant, with low or high power, low mass or not. Current physicists still discussing its mass, possibilities of action and life and the reasons for its occurrence and disappearance in structures to understand.

There is no explanation for their transfer to "electromagnetic waves", including light, and used by living things for light and images.

4,6 - Lighting, Pictures and Sight

Light does not exist in the Universe.

If this entity - which is not a substance - was continually manifested everywhere, why and how it would move and what would correspond our nights?

For us, on Earth, the space is black, out of the light sent by our Sun. If it did not, our telescopes could not observe the very few light coming from remote stars.

Light is a particular phenomena known to everybody, because it is always there, around us, as if it were part of ourselves or part of the Universe...

Then, surprisingly, there is **no study** of its origin, the reason why it is there or the usefulness of its presence, the quality of its substance, if it has one, the way it moves and how it "brings" to us images of objects we watch.

The "Fiat Lux" of the big bang dates back from a speech of Pope Pius XII in 1954. Before that date, Georges Lemaître had explained with his theory of the original atom that light existed in the Universe as if it could not be otherwise... except, according to Gamow, at some particular times... during which it would "decide" to be or not to be. Gamow did not mention it any more: light is there and that's it.

Like for all scientists of earlier centuries. And for cosmologists nowadays.

Its speed is considered a **fundamental constant** of the Universe without explaining the reasons.

Its speed is constant only in a vacuum it is said, but in the "official" theory it is not well known what a vacuum in the Universe is.

Some documents indicate that Einstein gave light this character of invariable and unsurpassable speed. This does not seem right: Einstein used it because its qualities were known to him and he needed them for his theory of relativity.

But neither Einstein nor previous physicists have explained why it had these qualities, in particular that of constant speed.

Living beings on Earth have used some phenomena of their environment to facilitate their way of living. They know how to use the waves of space in different ways that we still do not know well.

Some beings have developed tools to use those disturbance waves at very rapid frequencies. We know especially those of human beings and other organised animals. These are **eyes and sight**.

The sense of touch is also involved, permanently, both for individual beings equipped with organs like eyes than others, for example in the plant kingdom.

We are not sensitive to the space disturbances separately, due to that their frequencies are too high, but the sensitive nervous organs are able to differentiate them according to those they receive.

The information gathered by the eyes are interpreted by the nervous reflexes and memory apparent locations for making us images of objects, more or less detailed, without distinguishing all the information provided by the waves.

We see and recognize objects that we have already seen.

In our environment on Earth, electrons of the disturbances meet small compounds which absorb few of them, reflect other and after numerous reflections, reach our visual systems which create a **particular environment called light**.

The rays of what is remaining of this light, and other most direct, reached the objects of our immediate environment, on which they are reflected and diffused, or refracted and partially absorbed, according to the shape and the matter of objects. They absorb more or less easily electrons according to disturbances frequency.

The «lightning» waves reaching our eyes **are only those** which have been modified by the objects we look at. The quality of their surface determines the colour of the objects due to the light they receive and send us back.

The colour and objects shape, their matter quality are visible only by that is remaining in the modified receive rays of light.

The remaining electrons change, by links, small proteins dendrites of the senses of beings who are sensitive. See chapter VI.

Below a certain frequency, our eyes are no more able to perceive the luminous rays. Above we are dazzled, or even injured.

In case of lack or reduce ambient light, our eyes can be sensitive to remote rays, according to their strength or what is remaining when they reach to us. Thus, we do not see easily a candle in the bottom of the garden, but the light of some big stars can reach to us from distances greater than tens of billions light years.

The quality of the vision depends of the functioning of the living beings. All of them have their particular mean to register and interpret the parts of the objects they are looking for.

Certain living beings recognise disturbances at frequencies different of those used for sight or radio. They are able to see environment at their means, and have at their disposal marks invisible for us.

4,7 - Other Phenomena

Electrons of disturbances remain electrons of the Ether of space and are likely to entangle with one another. That is how under certain conditions, in the motion zone of the wave, the same phenomena can take place like elsewhere in the space void of objects.

The electrons of the waves entangle them with other free or already participant of compounds and objects. The disturbance disappears, absorbed for the creation or modification of a compound.

Thus the wave interference of light from distant stars gradually diminish in number. Absorption takes place as a function of frequencies; the strongest disruptions are absorbed first, due to a largest number of entanglements in a given time.

The remaining waves are therefore formed of frequencies which are closer to those of infra-red and thus indicate the age or distance from the source of disturbance of waves, this is the explanation of the **shifting towards the red area** of the spectrum, the "**redshift**". Its quality allows astronomers to calculate our distance from the source of observed light.

The disturbances built by bounding and fusion of compounds in the core of the stars are not visible for us, because their frequency is too high.

We cannot see them, therefore **the matter of these objects is black for us**.

We can see only the peripheral part of the stars, between the core and the areas where start the stellar winds which are going away.

We use to call black or dark all the objects and other structures which we know they are existing and we cannot watch them because they do not create space disturbances at the frequencies giving waves called luminous.

That concerns practically all the space objects, out of the stars during their principal sequence. The time of the succession of the different objects after the stars should be very long. Then, after billions or tens of billions of years, the elements are visible to us in the nebula when the frequency of the electrons entanglements, and the created disturbances matches the speed giving luminous waves.

Photovoltaics is a technic used by human beings to retrieve electrons from disturbances from so called light waves and turn them into electric current.

In order to achieve this, they use a variety of materials, some of which are called semiconductors. Their components have the capacity to bind relatively easily with free electrons (disturbances of space) or small compounds. Thus they include additional charges in an electrical current in the involved "photovoltaic cell", for being connected to an electrical network containing the user equipment or an accumulator.

This phenomena is depending of the qualities of the used matters.

We know how **to create waves for our needs—radio, radar, telephones, various gadgets**—by broadcasting in the space of our planet, some "electric discharges" through an antenna or another control device.

These "discharges" are the release in the "middle" free, that is to say the air in our atmosphere, of compounds (electron) of a certain value, for their connection with the mid compounds by entanglement with the usual consequences: reduced volume of compounds and creating disturbances in space.

The intricacies depend on the quality of the electrical used current, which can be modulated or "bearer" information. "

They move like all other waves of space, with the same movement speed and the same "low power".

All the hertz waves that we use are created in this way. Technicians know how to transmit electrical signals corresponding to their particular needs as far as distances and loads of information are concerned, that need to be recuperated by appropriate receptors. The principle is the same for **long distance communications** towards satellites, for example, radar, mobile phones or gadgets that have a very short range. These disturbances and their waves are also created in special areas of light fibre.

All areas of space, free and within objects, are permanently "disturbed" by numerous waves at various frequencies, which could, individually, be independently recognised by suitable detection equipment, which is their current use for "**passive radars**".

Like all other phenomena and events in Universe, disturbances of space, remote or perceived as waves, have no particular purpose in the Universe, but different consequences depending on the media crossed.

They could participate in the "evaporation" of black holes observed by Stephen Hawking, and in the creation of new objects in WHIM, clouds and nebulae, increasing the frequency of electron entanglements with no need of "gravitational collapse", frequently mentioned for the creation of the stars in the nebulae.

CHAPTER V

ON OUR PLANET

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- 5,1,a - The Matters, 5,1,b - The Gravitic clouds,
- 5,1,c - The Air, 5,1,d, - The Water,
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- 5,3,a - The theory, 5-3,b - Current Energy, 5,3,c - Nuclear Electric Plant,
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May 2016

5,1 - On the Earth

5,1,a - The Matters

The matter of our Earth was constituted during the creating of stellar systems, there is 4.8 billion years ago. All atoms and molecules of different masses of matter existed at the time of the differentiation between our star and small planets.

Since in the Earth, **there has never creating new atoms** and the matter has not changed.

The astronomers observations show that, although the same rules are applied everywhere, trillions of objects that exist and are created continuously in space, are all made of different materials, with atoms and probably other various compounds which we can not imagine the existence and shape...

Some features are determined by the environments in which they are formed where they exist and evolve and renew themselves.

Our understanding of **materials** depends primarily on the way we see them. It is we, Human Beings, who classify and differentiate them and consider exotic all very infrequent elements in our constituted matter. We are allowed to think that those of our galaxy may have common features, whereas in other star clusters, near or far, elements that we cannot even imagine would form. From there sometimes a ray could reach us that we call a cosmic ray...

On Earth and in every objects at medium temperature, matter is said constituted, and represent less than one percent of what is called matter in the observable Universe. This material consisting exists only for a relatively very short period of the life of objects in space

Within our value system, we can distinguish different situations.

1 - The "cold" environments at a temperature below approximately 200 kelvins. This situation is mainly found in space, nebulae and other objects which are barely visible or not visible to us, containing widely scattered compounds or diluted materials. As we cannot see them, we know nothing about their values, amounts or simply if they exist.

2 - Moderate areas for us, living beings, where we live and we developed some thermic agitation - which we call heat - between 200 and 2000 degrees Kelvin about.

3 - Circles with a higher thermic agitation, continually increasing in objects, like our Sun, The gravity also increases.

At certain levels of heat and gravity, important compounds are created. The materials are plasmas that have no tangible reality as we know it on our planet.

The material consists of atoms and molecules, as we know it on Earth and other planets exist only in a very small period of the life of objects in space, between the relative cold of the vacuum of space and glowing warmth of the stars.

But we think it is very important to us!

5,1,b - Atmospheres

The atmosphere of stars and planets matches the objects gravitic clouds. In galaxies and other groupings of objects in space, they are similar winds with much less dense particles.

They consist of small compounds. Their various features are dependent on movement and permanent changes in the materials, creating the gravity of these objects. All material radiations on the limits of these objects form their atmospheres.

Physicists know that the **gravity in and around Earth** varies with the qualities of the matters near the site of the measure.

The shape of the gravitic field of our star depends on the particles winds around other large objects in our galaxy. Many other star systems exist there.

"**Sunspots**" we can observe on the Sun and all its granulations might correspond to particular gravitic areas, different from that of the complete one of the star. All events in these spots locally modify stellar winds with rapid repercussions on the winds and climate of the planets, in the whole solar system, and elsewhere in the galaxy.

5,1,c - The Air

The air in our atmosphere corresponds to "winds of particles", as we have just explained.

This is a particular no constituted matter, existing in varying amounts in all the gravitic environment of Earth, up to the Earth's magnetosphere, including, and this does not come as a surprise to us, in all the interstices of the solid matter of our giant ball, to the interior of all mines and natural deep galleries, including the chimneys of the deep seabed. Air always has the same composition, although oxygen or nitrogen act in the material which seems to contain them.

Like other gravitic clouds around all objects in space, «Earth winds» are a mixture of atoms, reduced to their nucleus, and other very varied small compounds moving side by side and which, in the atmosphere or "on Earth" cannot naturally bind to others.

Different elements form inside the cloud more or less stable materials.

The influence of "sunspots" is transmitted to us through our atmosphere and this of the Sun.

Pollution in some areas of the atmosphere, by dust or soot or ozone, for example, is not moved by currents of the lower atmosphere, but by "planetary" winds, which concern the totality of the gravitic field of Earth, and probably by solar wind.

5,1,d - The Water

In our planet, and all the objects in our solar system, another important quasi-matter is to be considered differently from the said constituted material. This is water.

It exists mainly in liquid form.

It is present everywhere in amounts more or less important, especially in vapour form in the "solid" material and in the air. Water vapour is not a gas, but a bursting into fine droplets of liquid water, which can not turn into gas without dissociation of its components.

These droplets can be extremely thin. Do they correspond to molecules?

It dissolves products without incorporate them and can dissociate them into their components without modifying them.

Water fills oceans, which account for 71% of the earth's surface, but only 0.23% of its volume, because we know only the water which is present in the outer crust.

In early 2014, scientists have discovered that there is an "ocean" **in the mantle between 400 and 600 kilometres deep**. See below.

It is not present in nebulae. But it exists, a few billion years later, in the matter constituting planets. It therefore appears at some stage between the accretion of compounds in the nebulae and the planetary formation. Its origin is not yet well understood.

Électronisme Physics allows us to attempt an explanation.

Its creation

At the beginning of this chapter we have seen that the nuclei of atoms are formed in stars with high thermic agitation, before they turn into other objects, in which the formation of nuclei can continue. After passing through these objects and a number of billion years, these nuclei are found scattered in a nebula at low temperature.

In these nebulae, when the material begins to move and creates new compounds, nuclei reshape their gravitic clouds to complete the atoms. Among them, some heavy, composed with many protons, have a significant gravity. They create major gravitic clouds and the created matter is considered easily fissile and radioactive.

At the same time are formed a certain number of neutrons, probably in connection with the atoms as they never exist free in matters.

In one of these nebulae a material is formed which evolved into various objects alike our Sun and its system of different objects, planets, comets and smaller others. The temperature of the mass of the objects increases, causing the destruction of certain bonds in the materials and especially the molecules of heavy atoms we saw readily fissile, like their gravitic clouds and nuclei. Protons are released in the material and in the atmosphere around. Atoms are formed with broken nuclei and new gravitic clouds.

Some of these free protons act as hydrogen nuclei, and bind to oxygen atoms in the air. They form water vapour, made of water molecules which seem independent of each other, despite the molecular bonds that create solid bulk water, liquid or vapour, passing from one stage to the next depending on the temperature.

In millions of years, **much of fissile material mass in our planet is thus transformed into water.**

This concerns mainly massive of the outer part of the Earth's crust.

This continues during the lifetime of the planet, depending on the outdoor temperature, especially near the uranium massive. Easily fissile material (radioactive) inside the globe can be transformed into water depending on their environment, mainly increasing temperature in the same time than more contacts with the oxygen of the air.

This is probably how would created immense groundwater reservoirs of very pure water discovered in recent years, mainly in Canada and in some areas of Africa where there are great massifs of uranium ores.

Hydro thermic high temperature vents in seabed could correspond to a formation of water from solid to easily fissile material around volcanic chain structures marine shallows.

There are, to a certain depth in our planet, a significant "ocean" whose creation could be related to the temperature of the planet.

The current increase in global temperature of the Earth would create water vapour in all areas where there are masses of fissile material and an increase in the overall volume of "atmospheric rivers"

Meteorologists call so water vapour bands moving between one and ten kilometres in altitude in the troposphere. They are very moving and can be extended to several thousand kilometres.

They could be fuelled by ongoing transformations of fissile material.

Sometimes they provoke heavy rains with exceptional floods, anywhere in the world.

Quasi-matter

The water forms a **quasi-matter** that exists in the other quasi-matter of the planet, the air of the atmosphere.

We can consider that water is dissolved in the air, with very large variations in concentrations due to the difference of gravity. This allows the formation of "mass" of this quasi-matter in the air.

It exists mainly in the liquid state, with gravitic bonds between molecules. It thus forms a uniform material, with a density higher than that of air. It then fills the lower parts of the structure of the planet and settles under its own weight.

Steam exists permanently with or without the presence of liquid water. The transition from one state to the other is easily achieved. It is always linked to temperature and relative problems of the state of the surrounding air.

It "evaporates" easily by the winds of the Earth.

It has a great importance in all weather phenomena.

Its peculiarities

1. **The water can be heated quickly**, only in a container which limits the dispersion of its components. In a thermic agitation increasing, air elements are eliminated in the atmosphere, which is realized only in a fairly complicated process, because of the permanent presence of air.

Boiled water cooled without movement, did not taste the same as running water, because it contains some air.

This also explains the variations of the boiling point, depending on the pressure in the surrounding environment.

2. **At much higher temperature**, the bonds in the water molecules are destroyed and gases, hydrogen and oxygen are released into the air where they already exist.

That explains:

Mtembo effect. It is a fact observed (and used by cooks): hot water freezes faster than cold water, when placed in contact with the cold. In the slightly hotter water than the other, the elements of water are mixed with more air, allowing a modification of the thermic agitation, the surface faster than the elements of water, packed upon each other.

Supercooling. It is due to the same phenomenon and would be destroyed when motion changes the layout of water molecules adjacent to each other.

3. **For the cold the situation is similar.** Because of the large difference in density between water and air, all changes in the environmental temperature, air - water, have immediate consequences, even if these variations are not very large.

Cold reaches the material when the thermic agitation is decreasing that is to say the displacement of the elements of a compound to another. At a certain value, the water mass changes status, it becomes solid. This change applies only to water. The greater part of the air, around the water molecules, is very free even if it supports the steam.

At low temperature in the atmosphere, cold moves from the open, outer, to water, by first reaching the surface molecules that are lighter than in depth.

This is why **ice forms first in surface** and as frozen molecules contain a certain amount of air, they are lighter than those in depth, and ice remains on the surface.

That is also the reason why they occupy a larger volume. This is found in closed containers, piping, in particular.

4. Creating of **rain, snow and hail clouds** in the atmosphere. It depends on the temperature of the water more or less important in the movement of air vapour. Frequent supercooling of the steam cloud is destroyed by different air movement

5.

External elements, primers or condensation nuclei, are not useful for triggering these events in the clouds.

Air pollution above cities worldwide turns mist into "smog", not rain.

In many countries for several decades, product testing dispersed into clouds to prevent hail and cause rains never give conclusive results.

6. Formation or gathering of electrical charges in clouds with creating systems and circuits that are manifested by movements or discharges whose place and time to be determined.

They are accompanied by lightning and thunder. To study since that could help us understand "our" electricity.

Also include the wisps and other events that seem to occur more frequently in humid atmospheres.

5,2 - The Sun Radiations

On Earth, we get **radiations coming from the Sun**.

The main two types are heat and light. These are different phenomena. They are related for us only because they affect us together when "the Sun is up", but the heat comes to us only an hour, approximately, after the light.

Heat is created by electron links that bind together to form progressively larger compounds, up to protons and their fusion into atomic nuclei.

The heat that concerns us comes from the outer part of the star, and spreads throughout the entire solar system. It arrives to us on Earth in about an hour, by convection at a speed of 7 to 900 kilometres per second, through the elements of solar winds, then through the Earth's atmosphere.

It is our distance from our star that determines the heat we receive and which allowed the evolution of life as we know it.

Life, we do not know the original was created and evolved based on this temperature. Changes, even small, like those we currently only fear will hinder many, if not most, of the existence of all living beings.

Light is equally a consequence of very numerous entanglements of electrons in a certain period in the life of the star (main sequence?) forming disturbances of space at frequencies that living beings can use.

"Light" waves reach us.... at light speed, in about eight minutes from the outer regions of the star, where entanglements of electrons take place at corresponding frequencies.

The electrons of the space waves allow us to create the lighting environment. The images are formed by our nervous system that interprets the information provided by the "light rays" **remaining** after refraction and absorption on objects.

5,3 - Nuclear Energy

5,3,a - Theory

The current operation of the said nuclear energy is based on observations made in the middle of the 20th century. They appeared to show that the fission of the nuclei of radioactive material produced heat. The operation would give elements with lighter nuclei, more or less radioactive and heat, whose amount was estimated using formulas like Einstein $E = mc^2$, rather approximate.

All phenomena are being explained by the early 20th century physics, mixing the "chemistry" of the Mendeleiev elements board, and equations of protons and neutrons handled with different forces of Standard Model of particles and quantum mechanics.

The observations seem misinterpreted because it is difficult to determine if the heat is due to:

- The break of atoms of radioactive materials, as interpreted by the current physicists; or
- The creating immediately afterwards - almost simultaneously - new compounds with elements from this break, as explained in Chapter III.

In ordinary chemistry on Earth, changes and destruction of compounds are difficult, if not impossible, and are always endothermic.

All-bonds-intricacies are indestructible.

A relative increase in heat can help break gravitic links.

All chemical syntheses or compositions, including electron bonds are exothermic.

During the creation of our planet, many masses of fissile material were created, as we explain here-above in paragraph 1.11,c (the electron cycle), in Chapter I.

Thereafter, some are degraded by natural reactions in accordance with the increase of thermic agitation.

Everywhere on our planet, decays are realized, without stopping, which we are sensitive by radon gas.

Others created the water, as explained in section 5,1,d, here above.

Some, on the surface of our planet, are exploited for our nuclear power.

In the mines, the uranium material that contains easily fissile elements in very small quantities, is concentrated for uranium and transported as "Yellow Cake" to the plants of use.

5,3,b - Current Nuclear Energy

In the "nuclear", operation starts with the preparation, from the yellow paste, bars of "fuel", adapted to the needs and equipment.

For the operation of the plant, these bars are lowered into tanks filled with water (pressurized or not) where they come into contact with neutrons and small free compounds existing in water and the air from the tank.

Links are realized immediately between electrons of compounds from neutrons, and the free compounds in the tank.

They lead to a first increase in the thermic agitation which triggers the entire operation.

We saw in Chapter III, that the formation of compounds by binding the same or different atoms releases elements of gravitic clouds which are coming together: the gravitic clouds of the compounds are always smaller than the sum of those components.

This thermic agitation is a supply of charges for heavy elements that were "broken" by 2 (or 3) important pieces and many small.

The pieces seem predetermined. They certainly correspond to pre-protons created in stars at end of their life

The compounds released, and those of the atoms gravitic clouds existing in the tank, immediately bind with free or not elements of the fuel, creating new compounds that are radioactive by-products (undesirable) and causing a second and strong increase in thermic agitation.

It is the production of heat, which is sought.

It is transported into no "nuclear" areas of the plant and used for mechanical movements which cause electric generators functioning. See section 5.4, here below, concerning electricity.

According to these explanations, the heat is therefore not produced by the fission of heavy atoms, but by the links, just after, to create or modify compounds.

Does this could be called cold fusion or LENR (English: Low Energy Nuclear Reactions)?

5,3,c - Nuclear Electric Plant (and thermic)

Currently, all thermic (combustion) and nuclear power plants to generate electricity operate on the same principle:

1. Performing one or more chemical syntheses of elements to create heat, and all-together useable or undesirable by-products.
2. The heat is converted into mechanical movements,
3. To turn a generator,
4. And pick up the electrical charges in the air to put in electric systems.

We must try to remove the phases 2 and 3, by creating in phase 1 molecules of products that are not (too) undesirable AND free compounds that are created directly in electrical systems.

5.4 - Electricity

5.4,a - Theory

In the Universe, and therefore on Earth, all events, creations or transformations of materials and objects are achieved by electron bonds, free or already participating in compounds of contents, following contacts, as explained in chapters II and III of this essay.

Electricity is this possibility of action for all free elements of the Universe in the space of objects and subjects and atmospheres of these objects.

She always exists for all electrons and objects in the Universe, **without features or special provisions** in these elements. **Not any force or energy** is not associated or necessary to the electrons that bind.

It is **noticeable and active only when electrons are in contact**. In this case electrons, it is always present.

5.4,b - Its existence

It is present everywhere at all levels of existence of compounds and materials, from the first links of free space electrons to the material changes in the stars and other objects in galaxies.

It has no particular force and action is always adapted to the volumes and other qualities of compounds in contact.

Electricity is the same way, suitable for a transistor, a handheld gadget or high voltage transmission systems "energy."

It leads always and at all levels of importance of the matter, the realization of all phenomena explained in Chapter III for the creation of contents:

- Disturbances of electrons and ether creating waves of space,
- Increasing the thermic agitation, with modification of the movements of electrons and free compounds,
- Gravity in any compound, with gravitic clouds and atmosphere around all objects..

5.4,c - Our use

Part of visible actions and events on Earth is considered electrical phenomenon existing in many forms that some we do not know how use it.

This is, among others, storm clouds, static electricity or diffuse in specific areas of electronic components.

These are well-defined systems, surrounded by an insulating region, in which an electric current creates actions and balance components by their permanent displacement, as elsewhere, that is explained in Chapter II.

It's exactly the same for our "artificial" uses on Earth.

It is always composed of two elements:

- The electrical current made up of elements, electrons and free compounds, which can be combined with others, but no or very little between them.
- The limited system wherein there are, with very little, or not at all, connecting between its elements and those of the electric current.

5.4,d - Electric Current

This is the "tool" acting. It is composed of atoms and other free compounds, with characteristics associated with their use which consists of two actions:

Their bonds. They do not easily bind them. They do this with specific elements, many atoms, according to location and materials.

The balancing of the disorder, that is to say their permanent displacement, to each other in their system. This is the general phenomenon, prompted by the vibrations of electrons in their compounds and materials and space, visible and sensitive for us by thermal agitation and waves from space.

It is realized in electrical systems, and **all matter and the surrounding space.**

When the amount of the compounds in a circuit is changed by a contribution or a use, the balancing is achieved instantaneously and appears to us as the movement of electric current.

The **electric current is never transport entity**, which would be "electricity", from one point to another of a system, but a balancing this entity formed of separate elements, in the whole system in a way that seems instantaneous, but more or less marked, sometimes, by a significant hysteresis.

Compounds connections in a system can change the electric current there, with immediate balancing. It can manifest as a local increase of the thermal agitation, sensitive to us as heat.

The hydrogen atom made of a single proton is the most numerous atoms atmospheres objects. It could be a major component of electric current.

Possible models

- The storm clouds and luminous lightning discharges.

The electrical current is created from the free elements of the existing atmosphere in well defined clouds, determined by different qualities of air from the atmosphere. They are linked to more or less significant accumulations of molecules "steam" of water.

Energy discharges manifested by lightning and thunder lightning, when connection between sectors or clouds at different voltage. Momentary electrical systems may contain significant quantities of electricity which are destroyed during their discharge.

Other electrical systems will likely form around tornadoes and cyclones.

- It is in the atmosphere, cloudy or not, that is "harvested" the electric current through the coil of the current generators.

For two centuries we have only one way to "create" the electricity we need for our equipment by raking the electrical elements in the air by the friction of the winding of the generator.

The winding conductors wires are part of the electrical system. Some of their qualities determine those of electric current.

They rotate at a certain speed in the air where small various compounds are located. bonds are held between the electrons of these little free compounds with:

Or components of the wire of the winding,

Either small compounds from the air, driven by the displacement of the coil. The generator works only if a use is "connected", which shows that the electrical system is stable, so balanced continuously.

5,4,,e - Electrical Systems

These are the areas in which an electric current is created, moves and works depending on the apparatus used.

They are suitable for electric current and the apparatus used.

They are varied depending on the quality of the materials which form the electrical current and they contain.

So they exist, from the smallest structures like single molecule to an electronic component, to larger volumes, load and size of their zone of action.

These systems are an important part of current research in nanoscience and technology because this area is in a creating area of the material of objects of the Universe, intermediate between the molecules and the largest free elements, in the space or systems. Currently, the new "nanoscopes" provide an almost direct observation.

5,4,f - Actions

They are those of all the components of the materials, as explained throughout this study.

This means that virtually electricity is everywhere, often in specific systems adapted to utilized elements.

Some particular cases.

- Photovoltaic

The "accumulations" of free electrons disturbances in space, can be recovered by special materials, probably made of protons from the atmosphere to form compounds able to participate in electric current in a system created from special photovoltaic cells matter.

- Superconductivity

This is a difficult problem because the electrical phenomenon still exists when electrons are in contact, for example those of electricity and those of the systems itself and insulation.

Much research is done with graphene, or the like, and proton atom or hydrogen.

- Electronic components, diodes ...

Transistors, diodes and many other electronics devices are explained by basic phenomena of electricity in power systems consist of the component itself, and the balance of entropy in all relevant areas.

CHAPTER VI

THE LIFE ON EARTH

- 6,1 - Origin of Life, 6,2 - Features of the Life,
- 6,3 - Organs and organisms,
- 6,4 - Nervous Systems,
- 6,4,a - Different systems, 6,4,b - The Action Potential,
- 6,4,c - Nervous influx, 6,4,d - The Senses, 6,4,e - Other actions,
- 6,4,f - The Phantom Signs,
- 6,5 - Social Life

May 2016

6,1 - The Origin of Life

The latest hypotheses about **the origin of life** on Earth bring into play specific elements present in the space of our galaxy. Their molecules are close to the molecules of carbon compounds, and close to organic, mineral or living, dead or alive, matter on Earth.

Life on our planet has appeared in locations distant from each other, with no connection between them. According to some current observations, microbial life was already flourishing and quite widespread, 3.5 billions years ago, or a billion years after the formation of the Sun and its planets..

The first living cells, usually grouped in colonies, are all alike. They probably originate from the same compound that could be created, grow and multiply in order to be created in solar system while forming, that is to say, the Sun and its planets. See chapter I.

What follows is one possible explanation, among many others, for **the development of life on Earth**.

In the nebula in which the solar system was forming, a particular compound or an unusual new molecule might have existed—probably created within a previous object in our galaxy, star or otherwise, or constituted inside this nebula—forming a small unusual body...

We find it very difficult to imagine and we call it **Life**.

By an abnormality, it would have multiplied itself in elements like itself, and these new elements would have dispersed in materials that were being formed. Many examples of this Life-object might then be found in many bodies, including

the Sun and its planets. In our Earth, they were able to maintain and then develop all the way up to us, given particular environmental conditions, such as the external areas of our planet. It might still exist in the deeper layers of our Earth, probably in different forms.

Astronomers will one day probably find signs of life on all the planets in our solar system, as they have recently found on Mars and lately on Titan, a moon of Saturn. With the discovery, which was to be expected, of planets **around all stars in our galaxy**—and in others—it is very possible that Life particles existed and still exist in some of them.

It is not the presence of conditions that seem now to us favourable to life as we know it on Earth, which determined its installation on our planet. A particular Life cell came across to our planet randomly, as it may have done, and probably has done, **elsewhere in the Universe** and it developed according to the conditions that it encountered.

"Life" could therefore exist anywhere on our planet or in other stellar systems. It would be visible or identifiable on the surface of space objects or within certain materials. But only groups of cells under specific conditions could develop, adapting to the environment. The environment in question is not necessarily essentially oxygen and water, but could be quite different media, as shown by some extremophile organisms that are installed on Earth in unusual environments compared to life as we know it.

Even if there were somewhere a nearly life similar to ours, considering which cell Life we come, with an evolution of 4.8 billion years,- and closer to us that of modern man, appeared 200,000 years ago - it is not reasonable to think that we could meet one day living beings in a stage of development allowing mutual understanding.

How were human beings, 2 billion years ago?

Could we understand a man coming from some 20 thousand years ago, or living at 20 or 20 thousand years light from us?

6,2 - The features of the Life

It is difficult to determine what differentiates inert matter from that of the living beings. Among the peculiarities of it, identified by philosophers, we retain self-reproduction, a faculty for all living individuals to create others like them.

But it is not certain that this characteristic is specific to life. Some current observations in nano sciences show some reflex natural reproductions or reflex "repairs" in certain mineral neo-molecules.

Another feature of living matter is that all living organs and organisms are surrounded by **an envelope, participating in their functioning**, involved in the development of certain phenomena.

All compounds of **mineral** organic matter, as well as all the other elements, the cristallogenic elements in particular, have structures that can suggest a skeleton or shell or a more or less solid envelope. These structures give them characteristics that are the subject of special studies in the field of nano science.

However, in our current observations, none of these structures, even those structures that contain other structures, participate in their modifications.

The substance of living beings is created and evolves exactly like all other materials in the Universe, with the same phenomena and the same rules, even if the envelopes of organs and organisms create unusual events and objects, that are still not satisfactorily explained.

6,3 - Organs and Organisms

The outer envelopes of living beings, skin, peel, membrane, shell, or other, serve to protect them and limit their environment. Their permeability to internal or external, physical or seemingly intangible elements, is highly variable, according to classes or species.

We can consider as an organism, a group of unicellular individuals, enough tight together to avoid any way or contact with outside except those necessary to their existence.

That was probably the beginning of multicellular organisms.

Inside the organisms, envelopes or membranes surround all the organs, different each from others by their matters or functions. They are often inside each other, and often surwrapped.

The contacts of the living beings with their outside are made by two ways:

- Physical actions, easy to observe, for ingesting food and air and for evacuating rubbishes and destroyed proteins while internal functioning of organs.

- By the senses, which allows the coming in the organisms of all the events from their medium, with sensations for sounds or noise, odours, vision, touch...

- We will see below, § 6.4,d, that a selective permeability could exist in outer envelopes, enabling valuable or accessories connections of these organisms, of the same genera or animal or plant kingdoms without clear separation. Thus plants and animals can cooperate to their defense or development.

The **envelopes and membranes** have to be consider as a part of the cytoskeleton of the cells of all the living beings.

6,4 - Nervous Systems

6,4,a - Different systems

All operations of life are similar in all living organisms, some of which are much more complicated than others. But the level of complexity is difficult to define, as well as differentiation between the 3 kingdoms, animal, vegetal and mineral.

A plant body that has memory, reflexes and centralized actions, without brain, is it less complex than an animal that seems to think or a colony of bacteria that seems to choose its food?

We study here-below the nervous systems of living creatures called superiors. Other organisms are provided with simpler devices with relatively comparable results.

All events in the life of all individuals considered alive and their bodies are dependent on a nervous system - even without visible physical element such as neurons - in which all actions stem from each other without any choice or program.

The system can be reduced to a more or less important specialized network of proteins which permanent changes may be due to disturbances of the internal space. This is particularly true for higher plants for which the bark injury must be repaired quickly.

Physiologists who are interested in plants experience the phenomena of information transfer between plants more or less distant, but do not yet explain them. Important connections seem to exist in the soil between the plant and animal, fungi, insects organisms, for example.

A nervous system usually consists of very variable size cells, neurons with various extensions, such as dendrites, synapses and many other sites such as memories and ensembles, nodes and brain.

In our study we completely separate the action potential and nerve impulses, whereas:

- The action potential is the material part of the nervous system, ensuring its vital maintenance,
- The nerve impulses is the operation of the system itself, particularly what is considered as the transmission of signals for actions at any levels.

6,4,b - The action potential

It is the material of neurons with proteins that allow the entire operation of nerve impulses.

This is the "vegetative" system of the neurons and glial cells and the whole system, with, for example, the uptake of molecules made by nutrients, based on changes or creations of proteins and the need to evacuate those destroyed by the normal operation in the entire system.

The modifications of value of different ions in the cytoplasm of nerve cells, are regulated by variations in the selective permeability of plasma membranes, induced by the nutrients and the disturbances within the internal space through the nervous influx.

Thus the quality of the nutrients can be sensitive in organisms despite all the changes they undergo before reaching the cells.

6,4,c - Nervous influx

It's a seemingly immaterial part, using proteins of neurons and disturbance of electrons of the inner space of the entire nervous system.

Overall, its operation is already well known but no explanation is given as to the practical realization of protein modification following the transmission of informations by senses, or other neurons in the internal nervous system.

The research is intense and new ideas appear in recent years in connection with the "brain waves" used since the 1930s for electrical measurements in conjunction with health problems or varied research.

We offer below a mode of action, copied over the air space, which helps to explain and justify the brain waves, waves existing in the whole body of living beings with an apparent nervous system. They could also exist in other living organisms.

Sensations or "sense" are the contacts, some appearing intangible, of living organisms with their environment and surroundings. We explain in detail here below.

It is through them that information entering organisms.

These information are collected in the external environment by the special ends of nervous systems. They are dendrites composed of numerous small proteins, modified continuously by electrons, free or already connected to others, and particularly those of disturbances of the space, as the "light wave", in concerning the optic nerve. See Chapter IV.

For example, with respect to the vision, the electrons of the disturbances of the space, - the sunlight after being partially absorbed, and returned by reflection from the object, so what remains - come into contact with proteins dendrites of the retina. Some are modified or newly created and at the same time form new **disturbances and waves in the interior of the nervous system and organs.**

There could be a long series of modifications of proteins and thus a series of disturbances with various uninterrupted activities, despite the independence of all events.

The new space disturbances are created only if the modifications of proteins correspond to a certain volume of electrons.

The wave disturbances in the internal space of living organisms have specific frequencies, different of those of the Ether of space generally.

They relate only to the internal space of the bodies until their outer envelope and would therefore always be specific in each living being bounded by its outer envelope.

They move more or less into the bodies, according to:

- The importance or the "strength" of the signal, which should cover the whole body or only a few cells or organs more or less distant from the point of creation of the signal.
- The quality of the envelope of organs, or sites such as the brain which, for the vision, recognize images or create new ones.

All operations are carried out **instantly** but still one after the other, depending on the importance of modifications of proteins involved in specific sites or specific systems, with important synapses interventions that could bring the features of the genome.

Proteins of the cells are permanently changed. These are accumulations of amino acids with a very short shelf life and are reconstituted immediately with elements of destroyed peptides, modified by disturbances of the internal space according to their importance.

Only significant events, - at different levels - from dendrites, or other places of synapses or modifications of compounds may affect and modify proteins in more or less organ or cells.

Disturbances, and information, always move at the speed of light, with more or less involvement of the hysteresis, because of the very large diversity of proteins.

Recent ideas and discoveries could be a first step towards this theory of information transfer in the nervous disturbances by the interior organs and bodies system.

In early 2014, a team considered as a "cluster of excellence at the University of Freiburg and of the French National Centre for Scientific Research in Gif-sur-Yvette" explores the movement of a "resonance" that could be responsible for the transfer of information into nerve impulses.

This resonance corresponds to such disturbances recovered, partially or otherwise, by changes in protein ready to receive them.

All these provisions could suggest that all systems are alike. But as we have seen from the first chapter of this essay, all events are always randomly performed in systems already randomly done.

The presence of some elements may be accidental and in this case lead to specific events, materials or sometimes apparently psychological.

6,4,d - The Senses

From the beginning of their presence on Earth, and during many billions years of evolution, all living beings have created for themselves tools to guarantee their material life and to use the phenomena of their environment for more or less important or necessary functions. We do not yet know all of them.

All the "connections" between living beings and their environment are realised through these envelopes by "**senses**."

Touch seems necessary for all living organisms, while the sense of taste is unique to some. Sight, smell, hearing are phenomena carried by space waves, and atmosphere waves, and are more or less developed depending on the individuals. Other relevant waves for some other organisms may exist, radio waves, for example, whose frequency of disturbance are similar to the waves called olfactory and luminous.

All the senses are "exploited" in the same way inside bodies, by **nervous systems**, centralised or not. But according to the organisms' needs, the waves of space can be used for different phenomena that can vary from one type of organism to another.

For example, so called light waves are used by "superior" (more complex) animals for sight thanks to their eyes, but plants and other organisms not possessing any "ocular" tools which could still be using those same waves for some phenomena whose consequences are similar.

Thus ivy see the wall, a little further away, on which it is going to climb with roots that it prepares the correct side and sunflower turns towards the Sun?

Actual studies by the Teams of Pr Steven Lockley, Brigham and Women's Hospital de Boston and of the Université de Montréal, show that... « Light doesn't just allow us to see, it tells the brain whether it's night or day which in turn ensures that our physiology, metabolism and behaviour are synchronized with environmental time”. The researchers also show that light stimulates brain activity during a cognitive task even in blind people. It would be interesting to know the nerve endings that transmit information to the brain specialized sites that detect this activity.

“For diurnal species like ours, light stimulates day-like brain activity, improving alertness and mood, and enhancing performance on many cognitive tasks,” explained senior co-author Julie Carrier. “This theory may explain why the brain's performance is improved when light is present during tasks.”

It would be interesting to know the nerve endings that transmit information to the specialized brain sites detecting this activity.

Studies in Canada have shown that plants are sensitive to music.

Numerous other searches and observations relate varied phenomena with environmental influences on the behaviour of plants and other organisms without differentiated nervous system. The lives of these living beings is organized with many events and devices that we think reserved for living "superior" beings, touch, light, smells, sounds, memories and apparent choices.

Colonies of unicellular protozoal might perhaps have the sense of touch, and contacts would allow the functioning in them, as explained above, of a primitive nervous system.

For smells and sounds, there are probably different levels of formation, movement and detection, depending one on the Ether of space and the other on the surrounding environment, with air as an important component.

As far as smell is concerned, an important part could be conducted as for vision, with waves of disturbances of space generated by creations or modifications of compounds.

Scientists have just discovered (in early 2011) that the smell of odour molecules is modified by variations in their shape. These modifications can cause disturbances of space—by electrons entanglement or other connections of compounds in the "aromatic" molecules—with a diffusion and a perception that can take place at a more or less close or far range, according to the quality of molecules and receptors. We should be able to position them in the overall spectrum of perturbations of space. They could be located in the submillimeter band waves, not well known and close to the infrared and light waves, which are perceptible by living beings.

The latest observations, in particular the importance of nostrils in the orientation of pigeons, or dissemination of pheromones by sparrows, allow us to explain very numerous phenomena.

For their migration numerous living beings seem to be attracted and guided by odours emanating from "places" of destination, at more or less precise times in their lives. The hibernation of mammals and other terrestrial animals may be decided by the "smell of the seasons," both for the beginning and for the waking up at the end, while individuals are still "asleep".

It would be interesting and useful to know the importance of odours in the lives of butterflies and other insects, especially those who live within a society, or partially in the ground and their hosts they might parasite or not.

Marine animals, such as turtles, eels, salmon, and perhaps the great cetaceans might be guided by smell, despite the presence of the marine environment which only has a small influence on disturbances and waves of space.

But there could also exist a different and complementary process concerning, among other phenomena, the "odour trails" with the sense of smell of some living organisms or short range odours, carried in the air of the atmosphere.

The sense of hearing is not very different.

Sound waves could be of two kinds. Disturbance of the atmosphere moving at the "speed of sound" like waves of the vibrations of the air, and a more general mechanism involving the disruption of space at particular frequencies.

Is the guiding system of bats sound driven or is it similar to radio interference or radar waves?

The current scientific evidence may let us think «the five senses» could derive, or have evolved from the touch which could be the first sensation or use of their environment by colonies of primitive unicellular organisms.

6.4,e - Other actions

These perturbations of the internal space of the organs and organisms could explain the replication of genetic material, thinking that everything is done very quickly when the necessary conditions, - that we do not know - are met, even for chromosomes and all the DNA.

In vitro, studies are very important for all physiologists, biologists and other researchers concerned with the phenomena of life. They work on samples, larger or smaller parts of organisms, using materials and techniques that they are able to invent and adapt.

But it is likely that these samples will lack the inductor signals brought by disturbances of general space coupled with the **internal** space of organs or organisms that transmit information from one site to one or more others, controlling the entire system.

This is probably one of the reasons that require animal experimentation in laboratories.

In the same vein, could it be that some unusual envelopes of organs within organisms —or lack of them—may cause defects and malfunctions appearing as diseases?

The inheritance of acquired characteristics can be explained in the same way, repeated peculiarities are incorporated more or less quickly in the proteins that make up the genome.

A similar phenomenon is this of learnings. The repetition of actions by limbs or by other organs creates some reflex memory-sites that may exist for a long time, and be reactivated after long periods of pause or suspension. This concerns both the learning of physical gestures, sports, the use of instruments, and the intellectual activities, and we can add all those activities of ordinary life that are properly working and effective only if the information for the operational functioning is transmitted almost instantly from one neurone to the others with the reactions of memories sites, reflexes and effectors. For example, it is the feet touching the ground, who communicate to the knees how to walk and the information received by the dendrites of the optic nerve are interpreted by the memories sites to create images for us.

6.4,f - Phantom Signs

Our amazing discovery of the «Phantom Signs», not yet explained, could confirm the phenomena detailed above.

By carefully looking at a place free of solid color, paper, smooth wall, objects, after a few seconds, "I" see lines of text or drawings of very fine shapes, irregular and moving, a little dark or bright. Everything is sometimes visible or barely perceptible, but always there.

The letters are in constant motion as if the words changed, which prevents reading the texts.

Watched through a magnifying glass, letters and drawings are not changed, but the lens does not enlarge them, as it does for objects around, as if the write lines and signs were insensitive to the magnifying glass, or were between the lens and the eye.

I see them everywhere and even in the stain of my AMD. It would therefore not be the eyes that see these images!

Everyone can see them. But nobody notices them, probably because they know, or we think we know, they could be linked to a eye functioning.

In recent years, research has shown that the sense of touch is the only to act within the bodies of living beings. Attributes such as the eyes, nose or tongue are accessories to this.

The Phantom Signs, lines of text or drawings appear as a visualization of internal disturbances and letters and words might correspond to thoughts that vary constantly, until an unconscious decision that modifies a effector or memory site. The recordings appear not to be made immediately, as if to wait for reflection. Which would confirm that thoughts, like all intellectual acts, are only purely material ...

These remarks seem unrealistic as believing that we see these disturbances in the Phantom Signs ...

This would confirm the transfer of all information - even those being created - by disturbances of the ether of the internal space of the organs and organisms.

The Phantom Signs might correspond to particles created in the inner space and around bodies, at their outer limit to determine this limit may vary with the quality of materials.

Similarly that are created all bodies and objects - along with internal gravity - as explained in Chapter III.

Variations of small proteins in organs and organisms would form around them a small gravitic cloud, as the atmosphere around the objects.

The Phantom Signs do not vary according to activities immediately. That could be the beginning of an explanation of how a quasi nervous system could act in plants and other living things.

6,5 - Life in Society

Touch is a very important phenomenon in the social life of all persons, human and others belonging to the animal kingdom including insects, especially those that live in colonies.

The imposition of hands is an act that exists within all human groups, and probably corresponds to observations dating back from the beginning of the creation of human beings.

It should not be regarded as charlatans, researchers vital energy, followers of acupuncture or relaxation therapy and other dowzers and healer; there is no fluid, "animal magnetism" or positive or negative energy, but probably specific skills in the permeability of the envelopes of organisms. In 2012, studies of mind controlled games could be an application of these phenomena with the use of headphones creating a communication between the inside and outside of organisms.

Contact between the mucous membranes of certain individuals could be the basis for important social organisations.

Kissing and sexual activity are of great value, apart from the satisfaction of pleasure and reproduction. Frequent and particular contacts, through the mucous membranes, help social relations between partners to evolve.

Some current research shows the value of physical contact between a mother and her child.

Physically, spirit does not exist.

It is a way of using, consciously or not, by living beings, differently according to individuals, very numerous sites of the nervous system. This physiological entity brings closer together some specific phenomena participating in the activities of living beings, aware or not of the presence of this spirit.

Its creation is based on the biological evolution of the formation of individuals since the presence of the first cell of life. Then, in billions of years of evolution, repeated phenomena have created reflexes and memories that would be the beginnings of what we now call the mind.

Some complex living beings, called superior, have created special organs, such as the brain, the nerve ganglia, which gather together the reactions to external and internal events.

Multiple proteins that form the tissues of these sites and all sensitive elements have evolved without any directed intervention, not even directed by the spirit itself, as it goes along while it creates itself. It is also possible that at some point, biological evolution has been guided by decisions that seem conscious, taken by the spirit that created.

The intelligence of some living beings is created exactly as their spirit. It is a specialisation, innate or acquired, involving mainly memory and speed of actions, whether they are reflex or not, physical or intellectual.

The "form" of the spirit is linked to permanent modifications in synaptic proteins and of other specialised sites, which could be proved by various phenomena including the following three:

- Studies showing the unreliability of memory,
- The fact that some newborns of complex organisms already possess at birth a complete nervous system with specific sites that react to events happening from birth,
- The difficulty, if not the current impossibility to create with a computer an intelligence that would be comparable to the intelligence of living beings. Memories necessary to deductions, are important to digital and information technology. These are less reliable, but much more finely tuned, for living beings.

Artificial Intelligence will never give doubt or smile that move a step.

We must therefore consider that all the phenomena that lead to the formation of the spirit are realised without any intervention of this spirit, even for us human beings. It seems difficult to imagine and understand how proteins neurons, real hardware, can turn into spirit who feels responsible for living beings of the whole operation.

The decisions taken by this spirit are equally unconscious and that free will does not exist, if we stay at the level of physical science. But these phenomena have great importance in the lives of individuals and societies. Unconscious decisions can create apparently unforeseeable or unavoidable events.

Fortunately, cognitive relations, social contacts and philosophy have created rules of life in organised societies, which give the illusion to individuals that they

are able to intervene in the events of their lives. In the normal frame of reference, this illusion is sufficient, and unconsciously people are happy with it.

Intuition might be a faculty, - more or less developed in contacts between human individuals -, which would short-circuit the sequence of decisions, whether they are expressed or not, the last part being often an hesitation between two or more ideas and how to express them.

This phenomenon would remove an apparently conscious part of reflection and the decision would be taken without this period of consideration that does not in itself bring anything "genetically" more valuable.

This does not alter the fact that free will does not exist, which is hidden to us by our friend, the chance.

There is no conscience or other entity controlling a specific program that supposedly controls evolution or some changes. All organs are created and evolve, without consideration of their usefulness to the organism.

Evolution exists, but its results are not always useful for the development of the organism, according to our human appreciation. It moves in all directions, and we can only know the organs or the organisms that have survived their modifications.

This might confirm a current theory which would partially explain why the majority of the dinosaurs would have disappeared in a few million years, 70 or 80 million years ago, with an evolution which was probably inadequate to their way of living or a climatic change, where they existed.

Observed after evolution, all organs and organisms seem to have been created and to have evolved for a specific purpose. There is no such purpose.

There is no mechanism that would correspond to the control or monitoring of an operation. This could take place only in the presence of an entity that would be conscious of events and would have the means to guide these actions. We have seen that the Universe does not have it.

But in our immediate environment, at our human scale on our planet, living beings, human in particular, were able to use to their benefit naturally occurring genetic modifications, called mutations. These were sometimes beneficial depending on the circumstances of the moment. They subsequently multiplied them, and tried to create more modifications to try to improve their living conditions and, in particular, to fight against seemingly incurable diseases and difficulties of life. They have managed to modify, usually very modestly, organisms that are called GMOs, some of which are poorly understood and variously exploited by political movements or subjective beliefs.

From their appearance, living beings have evolved, in order to enable them to adapt to their environment, with the creation of other individuals and lifestyles. They have advanced together, according to their senses, their environment and contacts with each other, creating and developing cognitive relations that became social.

For some, amongst which Human Beings, the evolution of exchanges has led to language as a tool to make life easier, and enabling communications, whether essential or accessory ones.

When these living beings began to analyse their relationships, philosophy appeared in order to understand that spirit supposedly transforming the realities observed turning them into more complex concepts such as the soul and existence.

It is generally admitted that only human beings have a spirit.

But what do we know of other non-human persons, to whom we recognise a certain level of intelligence as we understand it, and of those who do not seem to need a spirit to exist?

Similar reactions of some individuals to external phenomena depend on acquired reflexes, sometimes imposed by the leaders of these people, for the good of their community or under this pretext. This may involve physical and mental behaviour such as military obedience, and exclusive beliefs, usually religious ones.

Chapter VII

OTHER THEORIES & MATHEMATICS

- 7.1 - The knowledge and diffusion,
- 7.2 - History of sciences,
- 7.3 - The Big bang, 7.4 - Quantum Mechanics, 7.5 - Antimatter,
- 7.6 - Mathematics and Informatique

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7,1 - The knowledge and its diffusion

It is always difficult to find the origin of ideas and physics theories and their exact terms that would allow to well understand them.

Facts are explained by scientists, then some phrases that seem important, are repeated by all extension popularizers and journalists. They take all or part - with very frequent risk of changing the meaning - spectacular formulas or easy to understand even if they are not fair. This is the case for Einstein and his theory of relativity, antimatter appeared with Paul Dirac, light and frequencies of particles, electric and magnetic fields and the last, the Higgs field with its boson.

Extension workers, scientists or journalists write for their readers and their own reputation and to the truth that they know or wish to distribute. Some pictures with words or drawings are classics, such as cake and grapes to show some expansion of space, or the light which cannot escape from a black hole despite his good will... certainly.

The deformations of extension workers and journalists become more important than scientific truths that are hidden and disappear. Scholars and other curious then based on what seems true because it is of all known by everybody and new directions, often false, make the whole uncomprehending.

Many scholars and not the least known, then direct their research to philosophy, a discipline in which the key is to ask questions, not to find answers, because everyone has his own, indisputable.

No Physics or new idea can appear because everything is blocked by a complicated system of dissemination of scientific information which was gradually transformed into an economic package that empowers research. This concerns its or-

ganization and financing, economic and political environment and the lives and careers of scientists.

Scientists aspire to free diffusion of information on research in general, and their results. Currently, it is not, because the agencies that sort, manage and file in archives are too related to business-in charge of distribution.

Nothing is accepted in archive before control by "peers" secretly chosen by these organizations. Then, additional sorting is done by the "media" that disseminate and publish such information, according to their ideas about topics and taking into account not researchers or even the public, but the need for sensational news and their economic and financial interests.

In early 2016, it appeared, with the LHC, rumours of a possible major discovery. Two hundred researchers wrote their observations or conclusions. The usual publisher could not distribute but only four. It was he who chose them. On the criteria defined for him by strangers.

Thus science research is oriented.

To try bearing all or part of the disadvantages of the system, research or educational organizations create their own open archive system under their control, available to certain categories of researchers and technicians in well-established standards that give the scientific orientation of the moment **in these organism**. Each implicitly sets its science and the knowledge is confined in countless places, independent of each other or centralizing agencies, which technicians and scientists out of their norms cannot participate.

This results in a loss of all general scientific research.

Rules and barriers are necessary, but they cannot be fixed by private or state companies that broadcast their information and medals according to their criteria or reputation that are not necessarily scientific.

It is a difficult global problem that all scientists are aware, but nobody feels empowered to resolve themselves or has the capacity to do this study.

It does not appear to archive organization that would easily find the latest research on specific topics in the various sciences. It could list all available archives in science, according to internationally established criteria.

Only a United Nations agency could create an institution of this kind. This might be asked UNESCO, already in charge of Science and Education.

7,2 - The History of Sciences

Studies of ancient philosophers and physicists have to put in their time and we have to accept to review their results based on what we have learned since.

The history of scientific discoveries is very important. It must be written by historians, neutral, ie not engaged in scientific or political positions.

The use of dictionaries, encyclopedias and science archives has evolved in recent years.

Encyclopedias disappear or become unusable directly: conventional because the dates of the items are never mentioned, and no reference exists that would guide theories to date with the latest research recognized by a leading authority on its part, if it exists.

Wikipedia because all information is regularly "updated" by unknown scientists who bring their latest findings, marked and limited by their ideas that become the truth.

There are experts to write articles for Wikipedia.

In the years 2,000, there was talk of the Hubble constant, the value of which varied greatly, and had then been abandoned. It was there only 10 years ago...

Now they say Hubble discovered the expansion of the Universe that we did not speak.

In his time Newton's ideas about the gravitational attraction, were not accepted and were taken over, two centuries later, by Einstein with the theory of relativity that has never been proven, despite cosmologists statements.

Moreover, this theory uses the speed of light, which is not constant, and no one ever explained seriously nor light, nor its speed, nor the creation from nothing, photons and other virtual particles.

The definition of antimatter says it cannot exist and is used in the experiments, in particular colliders. of is rotated it "particles", forgetting that nothing can move other than straight, even with the help of magnetism that has never been explained either.

Physics becomes philosophy of nature, like in its infancy, 2,500 years ago, when everything had to be learned and known

There is always as much to invent, discover and learn.

7,3 - The Big Bang

In 2,005, the age of the Universe was 12 billion years. Astronomers have continued to observe with constantly improving devices and they found older galaxies. So, the age of the Universe was put back, first by a billion years and then another billion.

Then, it was blocked at 13.8 billion years and astronomers do not dare suggest older galaxies anymore.

Nowadays, in 2,016, with the significant improvement of observation equipment, astronomers observe other galaxies that were fully mature, a few million years after the birth of the Universe. When have they been created?

How can we observe variations in the cosmic microwave background, 300 million years after the big bang when the galaxies of the same era are barely visible with the current sophisticated equipment?

In March 2013, astrophysicists would have observed gravitational wave vibrations in the "cosmic background space" during the first second of the Universe, thereby confirming, they say, the validity of the Big Bang. It's amazing that a viewing device has "seen" the vibrations of what was the space, through waves, due to disturbances that we have not been able to observe on Earth despite many trials during the last twenty years.

So, somebody declared that they were being made faster in the "beginning" of the Universe, without explaining for what reason this happened... Probably because everything was there and it was enough to make them grow, a theory that Gamow developed 20 years after the presentation of his theory of a primordial atom by Georges Lemaître. A large atom of which nobody showed the origin or the very reason for its existence in who knows what, probably a chaos, exceedingly full of everything... The Lemaître' atom was reduced to a point without specific dimension containing everything without precision.

Gamow described the beginnings of the Universe of the Big Bang, based on what he knew of the physics of his time. This is quite normal and understandable, but how can he explained the transformation of matter and antimatter, the creation of photons for a light that no one has ever explained and so accurate timing of all events in a so short time...

Since then, astronomers have observed that new stars are created with the remains of dead one. That seems natural because in the nebulae, where new stars are created, some heavy nuclei of atoms that have been created in a very high thermic agitation are present. We might also deduct from the above that dark matter could be the matter of dead stars, which transforms gradually in order to be used in the nebulae to make new stars.

At the beginning of 2015, some scientists, after mathematical studies, dare to question the validity of the big bang, saying that the Universe always existed and will last forever, and others, with different developments and arguments indicate the expansion of space could not exist.

Further studies are in progress.

Results are expected by many scientists.

7,4 - Quantum Mechanics

Quantum mechanics is a speculation that developed when mathematicians and physicists, at the beginning of the 20th century, tried to observe, with the equipment they had, objects of nanometric dimensions. As they could not see

them, they replaced them with mathematical factors. As they could not see either the results they said they had no importance when the calculations were made.

Following some observations, a physics was materialized in the Standard Model. This doctrine describes the forces and particles, including the Higgs boson, which never explained anything to the matter of our Earth and even more elements of the Universe.

According to their rules, they tried to analyze everything including the wave-particle duality, theory confirmed by de Broglie, and of which has never been explained its reality or waves, or other items to which an unexplained frequency was attached. We have seen these issues in Chapter IV.

Schrödinger indicated atom as the upper limit for the application of quantum mechanics. It is surprising that this area corresponds to a very human development of scientific knowledge or the quality of observation equipment, without meaning for the Universe. Nothing explains why, at this undefined stage of matter, there would exist a break or a change in the normal functioning of particles, forces and materials...

Below this vague boundary, a different theoretical frame for physics would apply, based on electron clouds, wave functions, the Planck dimensions, standard model particles and the intricacies of certain particles without indicating limits that, without them, could lead to a general uncomprehending and absurd entanglement.

Apparently, quantum mechanics would only affect this part of the physics.

Has any physicist, quantum physicist or otherwise, tried to imagine how matter could pass from a physics domain to another, or how could object, such as a human being, depend on different sets of rules of both physics?

To provide a solidity to mathematical studies, quantum physicists gave new names to different forms of quasi-forces and to ephemeral particles, which enabled the progress of their research. With time and dissemination of studies taken up by all researchers and students in physics, mathematics results were transformed into laws of quantum mechanics.

Elements, resulting from it, are possible by chance. Some so-called elementary particles of the Standard Model are likely to exist as being composed of electrons. But no indication is ever given for their implication in the creation of matter in any form whatsoever.

The **Planck dimensions** are based on so-called fundamental constants. They are very human indeed because they are supposed to depend on observations that would have been made, and with variable measures put into numbers, varying with the nationalities of researchers and with the units of measuring they decided to use.

In quantum mechanics, the mass or energy quanta replace particles and the **renormalization** is a surprising mathematical technique that allows researchers to

change mathematical results considered incorrect, according to no determined criteria, varying with their users.

Infinites are impossible in physics, and they have been applied in a mathematical sense to particles, which led bizarrely to the concept of **antimatter**.

7,5 - Antimatter

This "substance" was born in 1928, out of a Paul Dirac equation, as much a physicist than mathematician. He believed that the Universe was subject to mathematical rules. While others also believe it, no one ever found, mathematical sense of the Universe and all the objects it contains, including the Earth and ourselves.

Antimatter is supposed to have been another state of matter in the early phase of the big bang Universe.

How do we know this? No observation has been made of it, either in the period of the Big Bang, or currently...

This is the concretisation of a mathematical tool that has no physical justification.

In our Universe, that we touch, of which we are component parts, there are a very wide variety of materials. We can wonder why would any of them be incompatible with others and would make them disappear according to rules that can not exist in a Universe in which we know neither a conscience nor an established programme.

It is surprising that physicists particle colliders say they use positrons, while the usual theory says they can not exist in our actual matter with that which exists in and around in colliders.

Physicists say they have found the antimatter.

The explanations are difficult. To form, it would have "anti" elements, more primordial, exist or are created without encountering material components "normal." Is this possible?

But antimatter has been observed, according to scientists, and biologists make it for use in medicine.

We think that they create some compounds that are almost similar to what would be their anti compounds. Combined with other elements, they form bodies whose characteristics suit these researchers. It is a natural and understandable phenomenon in the constitution of any material, and in particular the matter constituting living beings in which excessively varied proteins are continuously created, which are only slightly different from each other.

7,7 - Mathematics and Informatique

Mathematic Science is tool created by men, according to their reasoning and habits of thoughts, which have changed little since the philosophers of 2,000 years ago.

Nothing in our comments or reasoning has never indicated that mathematical rules could control or direct the phenomena of the Universe as we know by direct observations of random facts.

The most comprehensive mathematical studies of the phenomena observed in the Universe, or the reflections on the same subjects, were used by Galileo and Newton, Descartes and Pascal. They have become more difficult to understand especially with Maxwell and Einstein. Then the School of Copenhagen has transformed physics mainly mathematical studies, bringing nothing to physics.

The difficult mathematics studies have established around the physics of the Universe, the feeling that a strong knowledge in mathematics needed to understand it. This is not correct, Einstein was not a mathematician, he got help when needed.

In the twentieth century Edward Lorenz, American meteorologist physicist studied chaotic system of the Universe, explaining the difficulty, or rather impossibility of forecasting based on observations of figures of randomly made events. He confirmed the impossibility of weather forecasting despite the use of very powerful and sophisticated equipment.

All information we collect does not predict events. We explain this in the first chapter of this essay with the study of chance.

In recent years, with very powerful informatics hardware, simulations are carried out to explain certain phenomena or provide other.

The information used are the same as those of mathematics, that is to say, numbers or other factors observed as a result of new events that are all made randomly.

Despite extensive studies, the results are never satisfactory, both physically and in every other science of the phenomena of the Universe, astronomy, biology, those relating to the hardware operation of the humanities, economics, psychology.

All research results and reflections of researchers, and powerful machines such as the LHC, are accumulated in the archives. They can not be used for further studies or significant forecast phenomena such as meteorology, economics or biology, useful if not essential to the life of living beings.

For the moment they cannot give, sometimes, a general trends of certain events.

They can only be used effectively until they have been purged of all information about random phenomena.

The tools for this does not exist yet.

Their research, difficult, should be an important part of education in mathematics and computer technology.

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