

## INTRODUCTION: [WWW.UITERWIJKWINKEL.EU](http://WWW.UITERWIJKWINKEL.EU)

### ■ The website [www.uitewijkwinkel.eu](http://www.uitewijkwinkel.eu) aims to describe:

- a) the lowest conceivable level of only four Higgs particles, two protons and two electrons;
  - b) the formation of neutrinos and photons; these are majorana particles without any measurable mass, electric charge and magnetic spin;
  - c) the building of the proton / the electron which, in addition to mass, also has the property of matter;
  - d) the structure of the elements of the periodic table (starting with hydrogen);
  - e) and the periodic table of black hole atoms (starting with beryllium).
- f) The site extends its scope to the level of the universe and its cycle. This balloon-shaped universe follows an energy-neutral cycle of 29 phases endlessly and it occurs during a period of about 2-3 trillion ( $10^{12}$ ) years. *This cycle of the universe can be represented mathematically.*

### ■ Followed by the elaborate modeling and quantitative consideration from Higgs ↔ universe:

The qualitative visions can be developed and modelled mathematically in the year 2016 and then be linked to the existing literature. With this model of the universe everything, from the lowest higgs level to the atomic level can be quantified and linked to the level of the universe and the cycle of the universe. With this model of the universe the past and the future of the universe can be explained quantitatively!

This mathematical model of the cycle of the universe cannot be realized without the help of modern scientists. With the information contained in these documents the author goes against everything that the scientific world believes in, because he rejects the *Theory of Relativity* and the current *Standard Model*. He has developed very different meanings to the concepts of: a) gravity, b) mass / matter c) space and time as well as their origins

### ■ Overall vision:

This website describes how the universe is qualitatively organized:

- a) from the smallest higgs level with just four 'low energy' super-symmetric higgs particles;
  - two proton higgs particles and
  - two electron higgs particles (**Document F1a 2014**).These four 'low energy' higgs particles are not detectable within the many 'high energy' collision products in particle accelerators!
- b) via the majorana particles (neutrinos and photons) as constructions of the four Higgs particles (**F1b**),
- c) up to the matter of the proton and electron as structures of neutrinos and photons which result in protons and electrons and are possible building blocks of atoms (**F1c**). Matter arises only after  $E = \frac{1}{2} mc^2$  is added to the rotational energy of the constructions of neutrinos and photons,
- d) the universal identical construction of all the atoms in accordance to the elements of the periodic table / system with the same system of mechanical, physical and chemical forces as well as the structure of their bonds, anywhere in the universe(**F1d**),
- e) the transition of *ordinary atoms* (except H, He and Li) to *black hole atoms* and black holes (**F1e**),
- f) the organization thereof at the level of the universe itself and the energy-neutral cycle that the universe continues endlessly (**G7** , **G8**).

In 2016, these views will be developed into models and can only then be quantified mathematically.

### ■ Major changes to the exact sciences:

Linking the smallest level to the greatest possible level of the universe has serious consequences.

In 2015, it showed that there are a number of fundamental errors in the existing beliefs regarding the foundation of the exact sciences. See **document J2**. These errors include aspects regarding:

- 1) the Theory of Relativity,
- 2) the Big Bang theory,
- 3) a new explanation for gravity as an alternative to the curvature of space and time and
- 4) a simple model with 4 higgs levels as an alternative to the current *Standard Model* (**J2**).

The documents and the information contained on this website brings about significant changes to the foundation of the exact sciences as we know it. In time, the Standard Model, the Theory of Relativity and the Big Bang theory will probably disappear! This will undoubtedly encounter strong resistance. Within the field of the

sciences, the views of the author will, in all likelihood, only be recognized and accepted in a few decades from now. The author does not, as yet, expect much support from the scientific world even though the information on this website [www.uitervijkwinkel.eu](http://www.uitervijkwinkel.eu) offers solutions to gravitation, 'dark mass / matter' and 'dark energy'.

#### ■ The min / max one principle:

Based on the bio-chemistry of living matter, the author has derived the basic physical and chemical minimum and maximum one principle (**F1f**).

- a) Each particle of mass / matter is, at any one time, in only one physical and chemical state.
- b) Only one physical, chemical or energy change can simultaneously happen to any given particle.

Therefore, all the changes can be broken down to a series of small steps with still only one nuclear physical or bio-chemical modification. This forms the essence of the minimum and maximum one principle, simply put: *min / max 1 principle*.

Currently, the sciences meet the descriptions of many processes mathematically, but they do not meet the min / max 1 principle. These processes can only be explained mathematically, and not in physical terms!

#### ■ Even Einstein's equation $E = mc^2$ does not fit in physical terms:

Einstein's famous formula  $E = mc^2$  with presumed equivalence of mass and energy does not meet the *min / max 1 principle* as the transition of mass into energy and vice versa cannot be broken down into small steps of one change at the same moment. (**G5**)

Einstein's formula may be mathematically correct but not in physical terms. As a result that this widely used and accepted formula is now fundamentally rejected! The views of the author questions the research, during the past decades, regarding particles- and astrophysics

#### ■ The current Standard Model:

The structure of atoms / matter and the cycle of the universe prove to be incompatible with the current widely accepted 'high-energy' Standard Model and the formula  $E = mc^2$  from the Theory of Relativity!

The author has developed his own 'low-energy' model with only 4 higgs particles; two higgs protons and two higgs of the electrons (**F1a 2014**). Currently (2016), this model has not been accepted in the world of science yet!

For this reason, the author and the information contained in the documents on his website, is not very popular among the present generation of the exact sciences as their visions are dismissed as 'fantasy'. As of yet, they do not feel the need or feel obliged to give a serious and substantive answer. .

#### ■ Almost no literature references:

All the information given in the documents on [www.uitervijkwinkel.eu](http://www.uitervijkwinkel.eu) explains the development of the main line and the interdependence between the higgs particles, the atoms and the universe. While developing this principle, the author discovered several errors in the current foundation of science that have been generally accepted for years (**J2**). These mistakes have resulted into, among others, 'dark mass / matter' and 'dark energy'. Using the current foundation, one can zoom into multiple errors and mistakes regarding the detail. Due to the current errors there are hardly any references to the existing literature in the documents on [www.uitervijkwinkel.eu](http://www.uitervijkwinkel.eu).

The author would first like to gain clarity and obtain a strict logical structure of the main lines i.e. from the higgs level, the periodic table, the protons / electrons and the elements in the universe and the cycle of the universe itself, before these documents can be tested and compared to the existing literature and before it could be added.

#### ■ Explanation of mass, electric charge, magnetic spin and dimensions:

The author has established that:

1) With regard to the higgs particles, the phenomena a) mass, b) electric charge, and c) magnetic spin arise not only simultaneously but also in mutual coherence. These characteristics are the result of kinetic energy as well as the three rotations caused by it. These three physical characteristics arise inherently as a result of the rotations of all four of the higgs particles / strings around their three axes of rotation,

2) Mass, charge, spin and kinetic energy are inseparable; pure mass particles do not exist; however, particles with mass, charge and spin do.

3) The higgs level consists of *three*, immeasurable, rotational dimensions. The rest of the dimensions of the current 'string theory' are all at an atomic level and only flow as a result of the 5- 9 movements of the earth in the universe. The measured dimensions are present on all atoms of the measuring equipment used. The

measurement of the higgs particles relating to the 5 - 9 dimensions, are in fact, none other, than a 'measurement error'!

4) The other physical and chemical forces of nature only arise on atoms and are mainly generated from the 'shell' electrons and the speed in the universe. The physical and chemical forces, and the phenomenon of gravitation are the result of the movement of the atom / molecule and of the Earth in the universe.

5) The origin of these physical and chemical forces of the atom (including gravitation), and their properties have been derived systematically!

■ **All atoms in the universe are ranked according to the periodic table / system:**

To prove the uniqueness of *Biochemical Pathways*, the author has deduced that, during the cycle of the universe and during supernova explosions, all atoms which formed as a result of the fusion of hydrogen, are arranged in accordance with the mandatory periodic table of elements; see **Document F1d**.

These elements, anywhere in the universe, generate the same system of physical, chemical and mechanical forces and force -/ bonding-vectors as on earth.

■ **Simplifying the Atomic Model of Niels Bohr:**

The author has simplified the *atomic model* of **Bohr** by replacing all neutrons in the nucleus by one core- proton and one core-electron. All atoms then consist of : 1) protons, 2) 'core/nucleus' electrons and 3) 'shell' electrons which then, as elementary forces, only generate *electric charge* and *magnetic spin*! See **Document F1d and the related Figures 20 to 23**. Here the build-up of atoms and their atomic nuclei during nuclear fusion reactions, is carried out step-by-step in accordance with the min / max 1 principle. The fusion process is carried out by adding only one proton or one electron as either a 'core' electron or as a 'shell' electron. This is done at each step and alternatively.

The admission of neutrons in the atomic nuclei also occurs during each step. All atomic nuclei is based on only two elementary particles protons and electrons, each with two elementary forces a) an electric charge and b) a magnetic spin. Both forces adapt the current 'strong' and 'weak' nuclear forces concretely with existing forces. In atoms the centripetal force is added to keep the 'shell' of electrons in orbit around the nucleus.

■ **A total of 12 forces of the atom:**

In **Document F1d** the author developed the *12 different forces* of the atoms systematically. Some of these forces i.e. gravitation, two physical forces and two chemical forces, are created solely by the velocity of the atom in the universe. Gravitation is generated from the 'shell' electrons of atoms and the speed of the atom in the universe. See **Documents E3 and E3-1**.

■ **All living matter in the universe is based on the same biochemistry:**

During the 1970s, the author was intrigued by the biochemistry of living matter, and by questions such as:

- ) Is a different structure of atoms and of physical and chemical forces possible other than that based on the periodic table / system? Is the periodic system applicable to the universe as a whole?
- ) Are there laws underlying the biochemistry of living matter on earth? If so, which laws?
- ) Why is the biochemistry of all life on earth only organized around the carbon chemistry with water as the primary reaction medium? Is water the only liquid suitable as a primary reaction medium for biochemical reactions, and why?
- ) Does the periodic table provide room, theoretically speaking, for different structural biochemical systems of living matter than which are found on Earth today or is that not possible?
- ) Does living matter arise spontaneously on all planets similar to the earth?
- ) Is the universe a single phenomenon or does it repeat itself in an endless cycle similar to living matter?

■ **The biochemistry of all life on earth is based on only one biochemical system:**

The biochemistry of all living matter on earth is built around one basic biochemical system as represented in the biochemical schemes of **Biochemical Pathways (BP)** by **Gerhard Michal et al.** and in the **Recon2 model**. Since 1985, the author has worked, in his spare time, for about 15 - 20 years on the derivation of the biochemical basics of living matter through:

- 1) The relatively simple top-down analysis of *Biochemical Pathways (BP)*,
- 2) The highly troublesome bottom-up deduction of all possible biochemical systems for living matter on the basis of all the molecules that are to be formed based on the periodic system, and
- 3) Deriving the six biochemical Laws of the biochemistry of living matter (**Documents B1, B2, B3 and B4**).

On the basis of the *top-down analysis* of the Biochemical Pathways (BP) and the *bottom-up deduction* as well as the periodic table, he concluded, around the year 2000, that all forms of 'living matter' in the universe as a whole is based on the same carbon chemistry as that which exists on Earth!

■ **The periodic system allows for only one biochemical system:**

The periodic table allows for only one biochemical system like Biochemical Pathways. The biochemistry of all forms of living matter in the universe is based, imperatively, on exactly the same biochemical principles or reactions found in living matter on Earth; the carbon chemistry and DNA / RNA! Nothing else is possible.

■ **Laws of biochemistry:**

The author has derived the biochemical basic principles of living matter, which are valid universally, and has formulated them into *The 6 Laws of biochemistry*. See **Document B1** and the shorter versions in **B2, B3 and B4**. In **Document B4** he has established why it is not possible to replace the element phosphorus by the element arsenic in living matter.

■ **Forces and properties of black hole atoms and black holes:**

A description is given of the transition of ordinary atoms into black hole atoms and all the forces of black hole atoms were determined (see **Document F1e**) as well as the physical properties of black holes. The 'electron' shells of the elements hydrogen, helium and lithium cannot collapse towards their atomic nucleus. These *elements H, He and Li* cannot be transformed to black hole atoms and can therefore not be included in a black hole. These elements continue to rotate around the black hole.

The author has formulated and clarified the understanding of the *Critical black hole gravity (Cribhgra)*. When the gravity of a compact heavenly body or black hole falls under *Cribhgra* then such a black hole will be blown apart. At the beginning of the universe, the Little Bang explosion was the same type of structured explosion (**G6 and relating Figures**).

■ **Gravitation:**

In 2007, the author explained the phenomenon of gravitation and posted it on his website! According to him, gravitation is not generated by mass, as assumed by **Newton** and **Einstein**, but from the velocity of the 'shell' electrons of atoms in the universe relative to the center (C) of the universe. Therefore, gravitation does not come from the mass of the atomic nucleus or as a result of the elementary higgs particles!

Gravitation and time are the only forms of 'radiation' and are physical phenomena with absolutely no mass, charge, magnetic spin or kinetic energy. Thus, the graviton is not a gravitational particle!

Gravitation has no mass, charge and spin and it also has no wave character. Gravitational radiation cannot be deflected in the universe. Gravitation only moves rectilinear through the universe and at infinite speeds.

Gravitation and (universal clock) time are the only forms of 'radiation' that leaves the universe. The amount of generated and emitted gravitation increases / decreases linearly with the speed of the atom / celestial body in the universe! See **Documents E3 and E3-1 (and Figures)**.

**Documents E3 and E3-1 and the relating Figures** outline the 'dark mass / matter' solved by adding a factor  $\cos \alpha$  to the current gravitational formulae). The 'Dark energy' (=in fact gravitational energy) of the universe is a normal and reasonable phenomena. This 'dark energy' of the universe is everywhere. This energy is nothing more than gravity / potential energy relative to the center (C) of the universe! That requires a different structure of the universe than that of a balloon or universe-sphere-shell!

The amount of gravitational energy cannot be measured directly but it can be calculated from a model of the universe. There is nothing 'dark' about gravitational energy!

■ **Seven errors in the principles of the theory of relativity:**

The statement by the author regarding the origin of gravitation and gravitational energy also indicates that **Einstein's theory of relativity** contains serious errors or flaws in its assumptions. Although the author has *great respect for Einstein*, he found seven errors in **Einstein's** assumptions. See **Document G5**. **Einstein** cannot be blamed for these errors as they were based on the knowledge known at that time!

Therefore, based on these errors in assumption, the theory of relativity is no longer applicable. The author is of the opinion that this theory should be removed from the foundation of science. As this could be a painful process, the author realizes that he will not become very popular.

■ **Einstein swapped mass and gravitation:**

With the speed of an atom / earth in the universe, it is not the mass of the nucleus of the atom that increases or decreases but the amount of gravity generated by the 'shell' electrons of the atom. Technically this results in approximately the same measurement results! **Einstein** has therefore, swapped the concepts of gravitation and mass. Incidentally, this happens more often!

■ **Einstein's  $E = mc^2$  only applies for quantitative annihilation:**

The formula  $E = mc^2$  does not apply to  $m = \text{mass}$ . Mass, in principle, cannot be transformed into energy! This formula only applies to the annihilation of equivalent matter and anti-matter. With annihilation no form of mass is converted into energy!

With annihilation only photons are released. These photons are actually majorana particles (**F1b**) of which the real mass, charge and spin present, are no longer measurable on the outside of the photon! In addition,  $E = mc^2$  is set free as rotational energy! This leads to the deception that *mass* is converted into *energy* which is absolutely not the case!

**In conclusion, Einstein's** formula  $E = mc^2$  applies only quantitatively for  $m = \text{matter} / \text{anti-matter}$ . During annihilation no mass is converted into energy! See **Documents F1a 2014 F1c, F1d and G5**.

■ **Laws concerning the conservation of energy and momentum only apply locally and not in the universe:**

When nuclear fusion takes place in stars, the 'shell' electrons bind to the nucleus of the atom and in doing so the 'shell' electrons lose both their gravitation and gravitational energy!

For this reason, the laws for the conservation of energy and momentum do not stop at stars and galaxies! These laws only apply to the relatively small scale of planets without a nuclear fusion!

■ **The universe did not start from a singularity but from a super cold (0 Kelvin) complete Little Bang:**

The mutual electric repelling between the electron 'shells' of black hole atoms prevents black hole atoms and the black hole itself to collapse into a singularity! The beginning of the universe happened due to one super large Little Bang black hole (radius 5 – 10 million km) containing all, collected through gravity, mass, charge, spin and kinetic energy of the universe.

At the end of the previous universe and through the contraction of the previous universe-sphere-shell the Little Bang black hole was formed with C in the center. Due to the continued decrease of the shrinking velocity all the gravitational force and the remaining gravitational energy fell away.

At the very end of this contraction the *Critical black hole gravitation* or *Cribhgra* dropped below the limit. As a result the gigantic Little Bang black hole became completely unstable and fell apart at 0 Kelvin into unstable black hole atoms in an equal number of protons and electrons.

This Little Bang explosion, described in **Document 6**, happened in a perfectly structured manner. In the Little Bang theory, all matter remains fully intact in the form of protons and electrons. During this cycle of the universe no reaction takes place whereby *mass is transformed into energy*!

■ **The new universe starts directly with an equal number of protons and electrons:**

After the Little Bang explosion, the universe expanded for approximately 5-10 billion years into the form of an increasingly thin balloon / universe-sphere-shell consisting of mono-layers of protons and electrons. During this period, the expansion of the universe-sphere-shell takes place at about 1/2th - 1/3rd of the speed of light. The universe, therefore, starts without inflation!

In the first period there are no atoms and therefore also no gravitation and gravitational energy! For the first 5 – 10 billion years they are both absent! From the equal number of protons and electrons, hydrogen is later formed.

■ **With the formation of hydrogen gravitation and gravitational energy returns:**

Approximately 5-10 billion years after the Little Bang explosion, and an equal expansion on all sides for about 2,5 - 3,0 billion ( $10^9$ ) years, each proton captured its own 'shell' electron. Then hydrogen was formed exclusively. The further construction of atoms happened through a nuclear fusion some 15 – 20 billion years later.

As a result of the hydrogen atom / molecule and speed, gravitation returns to the universe and with gravity an enormous amount of gravitational energy is freely added into the universe and to the cycle of the universe. Therefore, the Laws of the conservation of energy and momentum do not apply during the cycle of the universe! At the exact moment of the formation of hydrogen, a huge amount of gravitational energy is released, relative to the center (C) of the universe. ! The gravitational energy which was formed then, is none other than the 'dark' energy scientists are searching for now!

■ **The Cycle of the Universe repeats itself endlessly:**

This free additional gravitational energy is the driving force behind every cycle of the universe and causes the cycle of the universe to repeat itself endlessly! This cycle consists of **29 steps /phases** and can be divided into 16 short-term *chemical and nuclear physical changes* and 13 long-term *physical periods*.

We are now in **phase 23** of the cycle and it has been approximately 40 - 45 billion years since the last Little Bang. The cycle of the universe is based on the nine laws of the universe (**Document G3**) and the 12 parameters of the universe (**Document G4**).

With this gravitational energy, which has been added and is free, the universe is able to continue the complete and energy neutral, cycle (see **Document G7**). All gravitational energy is completely consumed! For the related Figures (approximately 100) and their explanations see **Document G8**.

In **Document F1d**, the author elaborates on the *how, which* and *when* of the cycle of the universe, how the different physical and chemical forces on atoms are formed and what the impact of these forces have on the movements in the universe of the existing matter.

■ **The cycle of the universe complies with the minimum and maximum one principle:**

The universe and its cycle complies with the minimum / maximum one principle (**min / max 1**) See **Document F1f**. As a result, this *cycle of 29 steps /phases* can be exactly deduced and described. Based on the **min / max 1** principle of the universe and its cycle a comprehensive mathematical model can be drawn up. Within a few years and aided by this mathematical model, the universe could eventually be quantified in detail.

■ **Creation of physical and chemical forces on atoms:**

Most of the physical and chemical forces are generated by the 'shell' electron / electron pairs in the electron shells of atoms. This can only happen if the atom is subjected to a rotational movement in the universe. All the physical and chemical forces and bonds, in our daily lives, are the direct result of the movement of the atom / the earth and all other heavenly bodies in the universe.

■ **The velocity of each, terrestrial / atom, in the universe generates its own power and bonding vector:**

The author distinguishes, within each galaxy, 5 to 9 different movements in the universe with respect to the center (C). The velocity of each, generates its own corresponding speed vector on the physical and / or chemical forces. Each velocity in the universe, results, accordingly, in a specific physical or chemical bonding vector which is related to the speed; see **Document D1**.

Without a model of the universe the number of speeds of the earth and thus the number of power and binding-vectors are estimated to be somewhere between a minimum of 5 and a maximum of 9 different movements. These velocities can only be realized quantitatively with a model of the universe-sphere-shell.

■ **All physical and chemical bonds can be dissected quantum mechanically:**

By modeling the universe, all 5 - 9 velocities of the earth can be derived and quantified. On the basis of this knowledge, all the physical and chemical bonds on the earth can be analyzed in their 5 - 9 bonding vectors. Therefore, all physical and chemical bonds on the earth can be analyzed in detail and quantitatively. (Only vectors which are similar can form a bond. This is the *vector-law* by **Uiterwijk Winkel**.)

This also applies to the build-up of forces and bonds which happened in the past. It is therefore, useful and usable for both quantum mechanics and astrophysics.

■ **The current universe is much older:**

The cycle of the universe shows that the current universe actually has a very long history consisting of 15 steps up to the 4-20 billion Big Bang of galaxies. The current universe is about 30 - 35 billion years older than the 13.8 billion years based on the Big Bang Theory which are widely adopted in science today.

The Big Bang theory is based on only one Big Bang while the cycle of the universe shows that each galaxy began with its own Big Bang. The current Big Bang theory is therefore, rejected.

The current universe of approximately 40 - 45 billion years has a much longer history, which unfortunately, is no longer visible!

■ **The formation of all galaxies simultaneously and with their own Big Bang:**

The basis of each of the current 4 - 20 billion galaxies lies in their own, much smaller Big Bang. This information was revised to prevent duplication. . This is **step 16** of the cycle of the universe. The Big Bang Theory is replaced by the Little Bang Theory and the Theory of the Cycle of the Universe. By modeling the cycle of the universe, the past, the present and the future of the universe can be described qualitatively as well quantitatively.

### ■ Black hole atoms and black holes:

The particular physical characteristics of black hole matter and black holes are described in **Document F1e**. Special attention need to be given to the transition of ordinary atoms into their equivalent black hole atoms, outlined in **Figure 18**, by which the transition of ordinary atoms into black hole atoms get other physical properties. Black hole atoms have a standard temperature of about 2.7 Kelvin.

Black hole atoms are very unstable and can only be maintained in compact celestial bodies / black holes where there is sufficient gravity. The gravity must be more than the **Critical black hole gravity** or *Cribhgra*. The concept of the critical black hole gravitation (*Cribhgra*) is also explained. The loss of gravity and reaching levels below *Cribhgra* was the immediate cause of the Little Bang and the beginning of the current universe (**Document G6**). This universe will end with a Little Bang again and then move into the next universe; (**G7, G8**).

### ■ The 29 steps of the cycle of the universe; 12 parameters and nine laws:

Assuming that the Little Bang occurred, and that it led to the 29 steps of the cycle of the universe (**Document G7, G8 Figures**), then the development of the velocity dimensions in the universe can be described.

Furthermore, the 12 basic parameters of the universe can be deduced (**Document G3**) and this occurrence led to the formulation of the nine laws of the universe (**Document G4**).

### ■ Except gravitation all the other forms of radiation are deflected:

All the information that has been collected about the universe has to be corrected regarding the deflection to an average of approximately 1 degree per 10-40 millennia, the Doppler Effect due to the velocity in the universe. Apart from the physical constants of *elementary electric charge and magnetic spin* all other physical and chemical constants are changing very slowly during the cycle of the universe (**G9, G10**).

### ■ Errors in Science:

Since 1995, the author has noted that various substantial errors have crept into, and are present, in the foundation of the sciences: (**J2**).

- ) Einstein's Theory of Relativity and the inappropriate use of  $E = mc^2$ ,
- ) The Big Bang theory and everything around it,
- ) The atomic nucleus with *neutrons* in the atomic model of **Bohr**,
- ) The system with 4 fundamental forces (in 2016): 1) the strong nuclear force, 2) the weak nuclear force, 3) the electro-magnetic force and 4) gravity.

In fact, nature is based on only two *forces*: a) *elementary electric charge*, and b) *elementary magnetic spin*.

These forces are generated at the lowest higgs level next to mass and anti-mass. See **F1a 2014 and figures 1 – 6**.

- ) The law of universal gravitation of **Newton** and **Einstein** which misses the factor  $\cos a$ . When this factor is added and the balloon shape of the universe is considered, this universe actually contains much more gravity, mass, matter and energy!
- ) Black holes have different physical properties than is currently assumed,

-) The 2016 applied **Standard Model of elementary particles**. This model consists of '*high energy*' particles obtained in *particle accelerators*. However, all mass and all matter in the universe is based on only four '*low-energy*' higgs particles:

- a) only two basic super symmetrical proton higgs particles and
- b) only two basic super symmetrical electron higgs particles. See **F1a 2014 + Figures**.

It is going to take many scientists, spanning many generations to correct these errors.

### ■ Discussion and improvement:

In his documents, the author states all of the abovementioned fundamental errors and they are subject to discussion.. For all these errors he has improved or developed a completely new suggestion or view. They are mainly reflected in:

- ) The different **documents contained in E, F and G** and are supported by
- ) Approximately **100 Figures in Documents F1a 2014 - F1e and F1e** and
- ) Approximately **100 Figures in Documents G7 and G8** relating to the Little Bang and the cycle of the universe.

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Zwijndrecht, The Netherlands, January 22, 2016.

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