

## THEORIES: A.P.B. UITERWIJK WINKEL MSc

On the website [www.uitervijkwinkel.eu](http://www.uitervijkwinkel.eu), the author describes the cycle of the universe and other topics relating to the sciences. The cycle of the universe can be mathematically modelled and thus be quantified and therefore makes it possible to describe the complete past of the universe as well the complete future of the universe! This is amazing!

The author also found a number of assumptions in the foundation of the Sciences which are incorrect

### I) THEORIES AND DOCUMENTS:

#### 1) Document F1d; the periodic table applies throughout the universe:

- In Documents F1c and F1d the author deduced that:

- All matter in the universe is arranged as protons and electrons (F1c) and finally atoms,
- Regarding energy, during the fusion of all atoms in the universe the construction is compulsory and arranged in accordance with the elements / isotopes of the periodic table (F1d).

All the physical and chemical forces of these atoms are the same throughout the universe.

- In Document F1e he deduced how ordinary atoms, higher than beryllium (Be), change into a compressed black hole state. There is, therefore, a periodic table of black hole atoms  $\geq$ Be. The physical properties and forces of black hole atoms / black holes are also elaborated on.

#### 2) Documents B1, B2, B3 and B4; all living matter in the universe is based on exactly the same biochemistry as on Earth:

- In Document B1 the biochemical basics of living matter, which prevails throughout the universe, are derived and the *Six Laws of Biochemistry* are formulated. The periodic table of elements offer opportunities for only one biochemical basis system for living matter. This system is shown in the biochemical schemes of *Biochemical Pathways* by **Gerhard Michal et al.** and in the later *Recon2 model*.

The periodic system permits only one biochemical system and has the following consequences:

- a) The biochemistry of all living matter in the universe is mandatory based on exactly the same biochemical principles such as those found in living matter on Earth.
- b) Throughout the universe spontaneous living matter will develop on all 'Earth-like' planets with sufficient surface water and an 'air pressure' of around 0.8 – 1.5 bar at 'sea' level. In every galaxy tens to hundreds of these 'earthy' planets are present.
- c) In all galaxies, living matter is expected to be on a hundred to a thousand planets!

### 3) Documents C1, C2, C3, C4, F1d and D1; forces and bindings:

- **Documents under C and Document F1d** show, systematically, the physical and chemical forces of the elements of the periodic table in:
  - Ordinary atoms / matter (see **Document F1c and F1d**)
  - Black-hole atoms / material (see **Document F1e**) and
  - Anti-matter (**Document C4**).

See the related **Figures** in **Documents F1c, F1d and F1e**.

- Gravity and the two physical and two chemical forces are generated by the 'shell' electrons of atoms. These forces are generated as a result of the linear and rotational movement of the atom or celestial body in the universe.

Each type of speed of the atom in the universe and its connected energy is also added to the tracks of the 'shell' electrons of atoms and results in a deviation from their orbit around the nucleus. The 'shell' electrons react against these deviations by generating gravitation and the two physical and two chemical forces.

The physical and chemical forces create a binding with the 'shell' electron causing binding energy to be released as heat.

- **Document D1** explains the structure of these physical and chemical bindings and their repelling behavior. These forces and their bindings consist of the same amount of force and binding vectors as the number of movements that the earth experiences in the universe. In principle, from every physical and chemical binding on earth all the velocities of the earth in the universe can be deduced quantitatively! In practice, however, this is very difficult!

All physical and chemical bindings consist of a combination of two of the same attracting forces and two of the same repelling forces. The particles / atoms do not actually bind physically on both sides as this would result in a form of annihilation.

### 4) Documents E1, E2, E3 and E3-1 concern gravity, gravitational energy and the nature of 'dark' mass / matter and 'dark' energy:

- In **Documents E1 and E3** the origin of gravity is derived. Gravitation, like the other physical and chemical forces, is exclusively generated by the 'shell' electrons of the atom in combination with the speed of that atom in the universe with respect to the center (C).

Gravitation is not directly linked to mass but indirectly through the 'shell' electrons in orbit around the nucleus and to the velocity of the atom in the universe.

In **Document E3 Franklin Roos** adapted and changed **Newton's** gravitational formula fundamentally.

- **Document E3-1** contains the Figures which relate to gravity. In these Figures it becomes clear that, in the current gravitation formulae of **Newton** and **Einstein**, the factor  $\cos \alpha$  is missing! When the factor  $\cos \alpha$  is added to the current gravitational formulae the universe actually contains much more gravitation and thus much more mass / matter and kinetic energy than has been calculated up to now.
- **Document E3-1** outlines the origin of gravitation and also outlines the cycle of the universe in the past and the future. 'Dark' mass/ matter in the universe is the direct result of the calculations performed around the mass balance of the universe without factor  $\cos \alpha$  in the gravitational formula.

- **Document E3-1** also shows that ‘dark’ energy is nothing more than gravitational energy in the universe. This is based on the assumption that the universe is a sphere with a balloon-like shape. (Due to an extremely small deviation of light by hydrogen and helium in this balloon ‘skin’, we observe the universe completely different than what it is in reality) (**Document G9**).

Gravitational energy cannot be measured directly but it can be calculated. In fact there is nothing 'dark' about this energy!

**5) Documents under F contains information about; a) the higgs level, b) majoranas, c) the proton / electron, d) the periodic table and e) black hole atoms:**

- **Document F1a (2014)** discloses that all mass and matter is made up of only four elementary *higgs particles*. The standard model of **Uiterwijk Winkel** includes:
  - Two super-symmetric higgs proton particles and
  - Two super-symmetric higgs electron particles.

This mirrored super-symmetric 'low' energy higgs particles contain an equal amount of:

- 1) mass or anti-mass;
- 2) positive or negative charge;
- 3) spin ↑ or spin ↓;
- 4) a fixed amount of kinetic energy on higgs level.

All higgs particles have fixed rotational speeds, clockwise or anti-clockwise, around their longitudinal axes and their two latitudinal axes!

This results in permanent distortions. All proton and electron higgs particles generate a constant and permanent quantity of mass, electric charge and magnetic spin!

These 2 x 2 super-symmetric Higgs particles can only be deduced theoretically! The 'low' energy higgs theory of **Uiterwijk Winkel** will most likely not be found among the ‘high’ energy particles / collision products in particle accelerators with a temporary higher mass, charge and spin!

- **Document F1b** describes the majorana particle. Neutrinos and photons are majorana particles. These particles contain:
  - a) equal mass as anti-mass,
  - b) equal positive and negative charge and
  - c) equal spin ↑ and spin ↓.

Therefore the majorana particles on the outside have no measurable mass, charge and spin! They are real particles with charged sites and they can be absorbed by the protons and electrons of atoms. See **Figures in F1b**.

Only their vibration frequency and energy is measurable. Photons seem to be pure energy while in actual fact they are real particles with a spatial structure.

- **Document F1c** describes the formation and structure of protons and electrons from majorana particles like photons. In this document the transition from mass to matter is developed. That transition mass → matter occurs as  $E = \frac{1}{2} mc^2$  is added to the rotational energy in the construction of photons.

The spatial structure of the proton / electron and their counter forms is developed and designed. In the universe only these four stable particles of matter are possible and ultimately only the proton and the electron.

**Document F1c** outlines the fact that the structure of the proton and the electron is completely missing in the *Theory of Relativity*, the *Big Bang Theory* and *Science as we currently know it*.

#### 6) Documents under G 1-10; the Little Bang and the cycle of the universe:

- In **Document G3** the *12 parameters of the universe* are derived. In **Document G4** the *Nine Laws of the Universe* are formulated.
- **Documents G5 and G6**, in principle, reject the Theory of Relativity and the Big Bang Theory.
- Central to these documents under G are:
  - a) The start of the universe with the Little Bang (**Document G6**),
  - b) The cycle of the universe itself (**Document G7**) and
  - c) Approximately 100 Figures that are part of the cycle of the universe (**Document G8**).

The cycle of the universe is completely energy neutral. As a result, the cycle of the universe repeats itself endlessly and goes through 29 phases / steps over a period of approximately  $2.5 \pm 0.5$  trillion ( $10^{12}$ ) years. These phases have been described in detail. The cycle of the universe which has been derived and described by the author, can be represented on a mathematical model. The *Cycle of the Universe Foundation* wants to start with this project in 2016.

#### 7) Documents under H; the DMF / C:

- With the *Digital Matrix Physics / Chemistry (DMF / C)*, the author aims to bring together the physics, chemistry and nuclear physics under one denominator within one digital display system. The author has not been able to Work out the DMF / C yet.

#### 8) Documents under Section I; Letters and Correspondence:

- The author has sent his documents to the **Royal Dutch Academy of Science**. The letters shown under **I** of the website contain the most relevant letters.

#### 9) Document J1; 25 questions by Gross:

- Nobel prize winner, **David Gross** (2004), surprised the scientific world by posing 25 questions. In **document J1** the author provides answers to these questions asked by Gross. Strangely, no response was ever given by the **Royal Dutch Academy of Science**, nor by **Gross** himself.

#### 10) Document J2; flaws in the foundation of Science:

The cycle of the universe spans from the smallest higgs level, to the building of protons / electrons, the periodic table and where forces on atoms are generated to the periodic table of black hole atoms and black holes.

## II) FLAWS IN THE FOUNDATION OF SCIENCE:

During the development of this cycle the author noted several flaws in the current foundation of Science.

- **1) The Theory of Relativity is based on incorrect assumptions; see Document G5:**

- **No definition of mass and matter:**

**Einstein** did not define the concepts of *mass and matter* accurately. In fact, the Theory of Relativity and the formula  $E = mc^2$  applies only quantitatively for  $m = \text{matter and annihilation}$ . This formula does not apply to  $m = \text{mass}$ , as **Einstein** thought and Science still believes!

Furthermore, during annihilation there is no transformation of mass into energy! During annihilation *matter* is only transformed into photons with  $E = 2 \times \frac{1}{2} mc^2$  energy.

See **Document F1c** where the transition from *mass* ↔ *matter* has been worked out.

**Einstein** swapped the concepts of *mass and matter*.

- **Theoretical considerations only tolerate one observation point:**

**Einstein** thought he was free to choose the point of observation. He even moved that point!

**Einstein** permitted himself liberties that were / are not allowed!

The author shows that the cycle of the universe (**Document G 7**) and the universe has only *one center C*, situated just around 2.5 - 3 billion light-years from Earth. That is the place where the last Little Bang occurred. In this exact same place, the next Little Bang (**G6**) will occur. This Little Bang point is the absolute and constant center C of the universe.

In all theoretical considerations, such as the Theory of Relativity, only this center C applies. It is the only point of observation, even if we do not exactly know where point C is located.

The moment of the Little Bang itself, forms the *exact starting point* for the development of both space and time in this universe. At the next Little Bang the universe-clock-time of this universe will end and the universe-clock-time of the next universe will again begin at  $t = 0$ .

From the moment of the Little Bang all matter in the universe possess exactly the same linear advancing universe-clock-time. Differences in time are not possible within the universe; however, differences in the moment of observation are. (If two identical atomic clocks are subject to differences in the velocities in the universe, it will result in differences of the physical and chemical forces, and bindings of all the atoms / molecules within these atomic clocks. This also results in measured time differences while the universe-clock-time of both clocks remains exactly the same.) The actual measured time differences are explained and do not have anything to do with the distortion of time and space as is now widely accepted and was predicted in the Theory of Relativity!

- **Einstein presented an incorrect view of gravitation:**

Like **Newton**, **Einstein** linked gravity directly to mass or the mass of the atomic nucleus. In **Documents E3 and E3 -1** it shows that gravity is only generated by the 'shell' electrons of atoms when this atom moves in the universe relative to the center C of the universe.

**Einstein's** Theory of Relativity resulted in wrong interpretations of time, space and gravity.

As a result of the fact that **Einstein** took the liberty of choice, he developed the wrong impressions regarding gravitation, space and time. **Einstein's** Theory of Relativity now fails and thus the formula  $E = mc^2$  regarding  $m = \text{mass}$  is incorrect (**G5, G6**).

However, according to the author, this formula is still valid *quantitatively* for the specific case of annihilation. In the case of annihilation no mass is converted into energy but  $E=mc^2$  is generated by photons and rotational energy! The Theory of Relativity also causes the *Big Bang theory to become invalid*.

● **2 The beginning of the universe with a Little Bang and from a super black hole; not from a singularity:**

- **A singularity is technically not possible:**

The universe started from a super big black hole which was filled with all the matter (black hole atoms **F1e**) and kinetic energy of the universe, brought together by gravity. The existing black hole atoms in compact celestial bodies bump against each other through their electron shells, see **Document F1e** and **Figures 18a – 18n**. Because the electron-shells of black hole atoms repel each other, these compact celestial bodies cannot collapse to a singularity any further!

- **The universe starts and ends with a Little Bang:**

The author describes that the beginning of the universe occurred at a super cold 0 Kelvin, creating a Little Bang. This cold Little Bang occurred without any apparent explosion around the center *C* of the universe. At the Little Bang, all black hole atoms become unstable at the same time. At this Little Bang, all black hole atoms fall apart in an equal number of protons and electrons.

These protons and electrons arrange themselves in alternate layers of one proton and one electron thick. These mono-layers extend by approximately  $\frac{1}{2}$  -  $\frac{2}{3}$  of the speed of light *c* from the center *C* of the universe. These mono-layers of protons / electrons attract each other through an electrical charge but also repel each other through their equal magnetic spin. As long as there are no atoms, there is no gravity and no gravitational energy!

Despite the attraction / binding these mono-layers of protons and electrons do not physically touch one another. These mono-layers act as a perfect spherical ‘ball bearing’.

Through the release of the electrical spring tension the former ‘Little Bang’ black hole starts to swell from the outside at a speed of approximately  $\frac{1}{3}$  -  $\frac{1}{2}$  of the speed of light *c*. Peeling off the Little Bang black hole mono-layers of protons and electrons takes approximately 1.300-1.500 years to complete. This ‘black-hole’ swells to a sphere with a radius of about 500 -750 light-years before the hollow interior arises! This expansion after this super cold Little Bang takes place without inflation!

- **Formation of hydrogen:**

For the next 5 – 10 billion ( $10^9$ ) years, the thickness of the spherical-shell of the universe decreases from 500 - 750 light-years to a few km. The universe / the spherical-shell of the universe expands over a distance of about 2.5 - 3 billion light-years around center *C*.

Due to the extremely slow transfer of the kinetic energy of the electrons to the protons, the velocity of the electrons, during these 5 - 10 billion years, slows down from approximately  $\frac{2}{3}$  the speed of light to about 2.2 Mm / sec. This is equal to the velocity of ‘shell’ electrons in the hydrogen atom.

At some point, about 5 - 10 billion years after the Little Bang and about 35 - 40 billion years ago, each proton captured its own electron orbiting the proton. The current universe is already about 40 - 45 billion years old and is much older than the current, estimated age of 13,8 billion years!

This capture by the proton of its own 'shell' electron resulted in the formation of the hydrogen atom and was directly followed by the formation of the hydrogen molecule. The combination of hydrogen atoms and speed result, at the same time, in the creation of gravity and gravitational energy relative to the center **C** of the universe!

Since then, gravity has diminished the expansion of the universe. All energy released as a result of this, is converted into the rotational velocity / energy of the current galaxies. This is now reflected in the (too fast) rotation of the galaxies. From the pre-existing background knowledge, the current galaxies are rotating much faster than what they should, based on what is expected according to the Big Bang Theory! What we now observe is the natural rotation speed of galaxies!

From now onwards, the inhibition of the balloon-shaped universe will continue for a further, approximately 350 - 450 billion years, until the gravitational expansion rate has finally slowed down to zero. In the meantime, all galaxies are completely engulfed by their own central black hole with the electromagnetic radiation of photons which has materialized again.

- **3 The Cycle of the Universe:**

After the Little Bang, the universe goes through a fixed cycle consisting of 29 successive steps / phases, which continue in one direction and are irreversible (**Document G 7**). This cycle of the universe meets the **Min / Max 1 Principle (F1f)**.

Each of the 29 steps / phases, and all transitions between these steps, can be describe. Each phase can be mathematically modelled and therefore also the cycle of the universe as a whole.

To go through one of the 29 phases/ steps of the cycle of the universe it takes an estimated period of approximately  $2.5 \pm 0.5$  trillion ( $10^{12}$ ) years! This cycle of the universe / Taeutcycle ends at phase 29 and results in a new Little Bang which always occurs in the exact same spot **C**. See **Document G6 + Figures**.

The author clearly describes how the universe, at each new cycle, gets the free energy at the moment of the formation of hydrogen, gravity and gravitational energy. This free and added gravitational energy is necessary to complete the cycle. Within the theory of the cycle of the universe no matter is converted into energy!

With each cycle of the universe, the universe starts with exactly the same amount of matter, mass, charge, magnetic spin and kinetic expansion energy. See **Document G4** with the *Nine Laws of the Universe (G4)*.

● **4 All matter in the universe is arranged according to the system of the periodic table of normal matter and black hole matter:**

During the cycle of the universe, hydrogen is produced from protons and electrons. During the 4 – 20 billion of hydrogen-supernovas all the elements of the periodic table are constructed from the protons and electrons of hydrogen. These hydrogen supernovas form the start of the galaxies around their central black holes. These supernovas are described in **phase 16** of the cycle of the universe.

Regarding energy, during these supernova explosions only atoms can be formed in accordance with the elements / isotopes of the periodic table as we see on earth. The periodic table and physical and chemical forces therefore applies throughout the universe. During all supernovas the central part of the explosion transforms into the central black hole that is now present in the center of all galaxies!

● **5 The atomic model of Bohr adapted by the author:**

The atomic model according to **Bohr** assumes nuclei containing charged protons repelling each other, coupled with neutral neutrons. The author shows that the **Pauli ban** does not apply to the atomic nucleus. Neutrons, as building blocks, are not present in the atomic nucleus. He therefore replaces all neutrons in the nucleus by one 'core' proton and one 'core' electron. As a result, the structure of atomic nuclei is more easily accommodated.

All bindings in the nucleus, between protons and electrons, consist of an attracting force / binding via an electric charge in combination with a repelling force via magnetic spin. As a result, the protons and electrons in the nucleus cannot physically touch one another!

The replacement of neutrons with protons and electrons result in a perfectly logical structure of the atomic nucleus of protons / electrons without the gluon, the 'strong' nuclear force and the 'weak' nuclear force.

● **6 The three autonomous forces of the atom:**

Any stationary atom in the universe only manifests the following three autonomous forces:

- a) +/- charge;
- b) magnetic spin  $\downarrow \uparrow$ ; and
- c) the centripetal force of the "shell" electron around the nucleus.

These are the most fundamental forces of the atom as well as of matter and physics!

The three autonomous forces of the simplified atom by Uiterwijk Winkel do not correspond to the current principles with four fundamental forces of matter:

- The 'strong' nuclear force is in fact an electric charge binding in combination with the repelling of the magnetic spin or 'weak' nuclear force.
- Gravitation is generated by the 'shell' electrons of atoms and is not a fundamental force.

● **7 All forces on matter are qualitatively uniform throughout the universe:**

In addition to the three autonomous forces, all other forces on all forms of matter are systematically derived:

- 1) Ordinary atoms / matter from H: (**C1, C2** and now **F1c and F1d**)
- 2) Black hole atoms from beryllium Be: (**C3** and now **F1e**)
- 3) Anti atoms / anti matter from anti-H: (**C4**)



- **8 In time, most forces on matter changes quantitatively:**

The *elementary electric charge* and the *elementary magnetic spin* of the proton / electron are the only real constant physical forces in the universe.

All other forces on the atoms are derivatives of the proton, the electron and the construction of the atom and are related, quantitatively, to the velocity of the atom in the universe and within the spherical-shell of the universe. These forces are generated as a result of the velocity of the atom in the universe with respect to the center *C* of the universe or through rotation.

Speed causes deviations in the paths of the ‘shell’ electrons and ‘shell’ electron pairs in the electron shells of all atoms.

In order to counteract these deviations caused by speed / rotation, the electron / electron pairs generate a range of two physical and two chemical forces. These forces are quantitatively dependent on the local velocities with which the atom is moving in the universe relative to the center *C* of the universe.

During the cycle of the universe the velocity of the atom changes extremely slowly during periods of millions / billions of years. Therefore, the forces of atoms, quantitatively, also change extremely slowly! Each speed generates its own vector on these forces.

- **9 Only a small part of the constants of nature are really constant throughout the cycle of the universe:**

Only the constants of nature associated with:

- a) the elementary charge / magnetic spin of the proton / electron and
- b) the speed of light

appear to be real constants during the cycle of the universe.

All other constants of nature change their underlying forces very slowly during the unwinding of the cycle of the universe / universe-clock-time and are predictable over time.

For this reason a mathematical model of the cycle of the universe is needed!

- **10 Gravitation is not directly, but indirectly, linked to mass:**

Gravitation is, like almost all other physical and chemical forces, only generated by the ‘shell’ electrons of atoms but only if the atom is subject to movement in the universe.

Gravitation is not directly related to the mass of the atomic nucleus, but indirectly via the plurality of ‘shell’ electrons and the linear and / or rotational speeds of the atom in the universe! Gravitation is linked to gravitational energy.

The weight of every object on Earth is generated, solely from the ‘shell’ electrons of atoms, and not from the mass of the atom nucleus. In fact the nuclei of atoms are *without weight completely!* This requires a different way of looking at, observing and interpreting the measured data!

- **11 Black holes at absolute zero temperature; they do not distort time / space:**

The author describes the formation of black hole atoms through the inward collapse of the electron shells of ordinary atoms to the nuclei. The collapsed atoms change into a black hole condition. The ‘shell’ electrons of black hole atoms rotate in orbits directly around the

nuclei at an angular velocity of the speed of light. The nuclei is completely trapped within these electron shells. During this collapse all the absorbed photons on the 'shell' electrons and on the nuclei are emitted completely.

In black hole atoms the nuclei has virtually no room to vibrate! All black hole atoms / black holes are therefore, by default, near the absolute zero; presumably about 2.7 kelvin. This temperature is equal to the background temperature of the universe.

In black hole atoms the electrons move at the speed of light. These 'shell' electrons cannot absorb any more energy nor can they change their orbit. These 'shell' electrons cannot emit or absorb light.

Black holes will therefore, reflect all electromagnetic radiation such as light and heat. Black holes can however, radiate infrared, but it has little effect as black holes have a standard temperature of 2.7 kelvin.

The fact that black holes cannot emit light has nothing to do with gravity. Black holes cannot distort the local space and time either.

- **12 Biochemistry of all forms of living matter in the universe:**

All forms of living matter in the universe are biochemically based on exactly the same system as found in living matter on Earth. See **Documents B2, B3, B4, and B1.**

The periodic table of elements which applies to the universe as a whole, only allows for one biochemical system. This biochemistry is presented in *Biochemical Pathways* by **Gerhard Michal et al.** and the *Recon2 model*. As a result, the biochemistry of all living matter in the universe is exactly the same as the biochemistry found in living matter on earth.

Living matter is found on all planets similar to the Earth with plenty of water (20% - 80%), with ice on the polar caps and an 'air pressure' at sea level of 0.8 - 1.5 bar which mainly consists of nitrogen.

### **III EPILOGUE:**

The author has developed visions and theories that describe the context and different transitions between:

a) The very smallest higgs level, b) the majoranas, c) the proton / electron, d) the elements of the periodic table, e) the periodic table of elements in a black hole state / black holes and f) the greatest possible and imaginable scale of the universe and its energy-neutral cycle of 29 phases and a cycle-period of 2 – 3 trillion ( $10^{12}$ ) years.

His approach by linking the higgs level to the level of the universe is unique and currently lacking in the Sciences. This integrated approach from Higgs level ↔ level of the universe clashes fundamentally with the current principles of Science. Currently (2016) the views of the author is considered to be 'not scientific' and is therefore ignored and, to some extent, condemned.

During this integrated and comprehensive approach of higgs level to level of the universe, however, the author came across various basic errors and inaccuracies in the assumptions and in the foundation of Science, including the Theory of Relativity and the current *Standard Model*.

The author is an agricultural engineer and an outsider in the world of science. Provisionally, aid has been denied in his attempts to model the cycle of the universe and therefore to quantify the universe and its cycle.

As long as the cycle of the universe is not modeled, these fundamental flaws in the basis of the Sciences are continued to be absorbed and festered. This brings about the responsibility that, in time, more and more research must be reviewed. This is huge and it is going to have emotional, financial, and especially political consequences!

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Zwijndrecht, the Netherlands January 22, 2016. \*

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