

Executive Summary

Gravitation has been granted to us.

Gravitation is an energy source of infinite capacity.

Gravitation affords us an opportunity to utilise its *beauty* and *power*!

Gravitation is our quantum treasure!

However, we have never really understood what *gravitation* is about.

The evidence of its real nature is given to us in black and white, in each moment and in every one of our actions. The truth, however, is so strange that it is hard to believe:

Free fall means *Earth's* surface is “falling” under our feet!

Earth is in sphere symmetrical expanding acceleration at constant speed.

The surface of the *Earth* – together with us on the surface – is in expanding motion, speed of $i = \lim g\Delta t = c$.

We should use this gift of gravitation, granted to us, rather than continue with the practice of converting the environment into wastes of different kinds. This is not merely to agitate for saving the environment; rather to make the point that causing damage, when we are granted the source of infinite capacity, makes no sense and cannot be our objective.

Energy production is our weak point.

All objects of our life are part of a cycle: what we eat, what we wear, what we use - all are coming from cycles. All our tools, our buildings, all our technology are products of nature, a kind of transformation.

Energy alone is the one by means of which we destroy all around us.

At the same time, *energy* is given to us in the easiest way: in the form of *gravitation*!

This is proven in every single moment of our lives. It is just that we do not take note of it, because it is so obvious and so unbelievable.

The formula is simple: *energy* is granted to us in infinite value!

Earth is in sphere symmetrical expanding acceleration = *gravitation*, functioning as electron process.

Gravitation as quantum treasure is about the use of its quantum impact as *electricity* and *mechanical work*!

To arrive at these conclusions, however, takes us on a long journey.

The first point to realise is: there is no event without time and there is no time without event!

We do not really use the *Albert Einstein* and *Max Planck* legacy.

We like to speak about *Einstein's* time formula and about *Planck's* constant, but without really believing what the message is: *time* is part of our existence; the world and we ourselves are processes in our every single “parts”; *quantum* as such is an impact, intensity, acting in time!

With all respect we shall ask:

Do we understand and, most importantly, do we use in our practice *Einstein's* relativity concept?

Do we in our conventional understanding really consider *world* is with a definite end and with a particular “last elementary component”? Will we go there and will we lounge around?

Do we use *time* and *speed* in our science practice today as decisive key parameters, establishing systems of reference?

Do we use the energy balance concept of relativity?

These concerns relate to all “particle” type definitions and concepts, but the “last particle” *Higgs-Boson* case turns the focus really on it.

Do we fully see what *Max Planck* has given by his constant?

Have we ever wondered why its dimension is *Joule · sec*?

Not really, otherwise we would have come to the point that this is the work value of an *impulse*, acting in *time*.

Zero as such only exists as inflexion point; the checkpoint between positive and negative; the transition point between proton and neutron processes.

And elementary particles are processes.

Life is constant change. The goal is for being in balance – the rule of *Nature*.

The entropy value of elementary processes is the corner stone establishing the *energy/mass quantum*. The correct definition is *energy/mass quantum*, indeed. We cannot decide what part of the mass/energy - energy/mass transformation the quantum entropy belongs to. It should belong to both.

The importance of the *entropy* is that it embodies the principle: there is no perfect transformation. Any change has its price. Quantum is establishing the *Quantum System of Reference* in its accumulating stage, which in its loaded status is the *Quantum Membrane*.

Energy and mass are in fact equal categories, just energy usually has the character of the “result” and mass the “appearance”. Proton process, within one and the same elementary transformation, results in energy, neutron process in mass.

The *Quantum System of Reference* has its speed value of quantum communication. The higher the load of the *Quantum Membrane* is, the higher is the speed of its quantum communication.

The speed of light (as we call it in our conventional terminology) is the speed of the propagation of a certain quantum impact. We call this quantum impact “light” within our *Quantum System of Reference* on the surface of *Earth*. But there is no difference whether we see impacts propagating in the quantum system or not (as the case is with radio frequencies), their speed of quantum communication is one and the same.

The speed of quantum communication is not constant, as nothing in *Nature* can be called constant. Its value depends on the load of the *Quantum Membrane*. Within our *Quantum Membrane* on the surface of the *Earth* it has its definite measured value. Within *Earth's plasma* quantum communication is of infinite speed value, the result of infinite conflict and infinite intensity.

The speed value of the quantum impact, coming through the depth levels of the core, the crust and the soil of the *Earth* is getting less and less. The quantum impact of *Earth's plasma* is the drive of *Earth's* sphere symmetrical expanding acceleration = *gravitation*.

Elements are processes, products of the *plasma* conflict. Elements are the building blocks of minerals and the hardened structure of the *Earth*. Each elementary process in its natural mineral stage has its own quantum speed of communication. The deeper the position of the mineral of an element to be found within *Earth* crust is, the higher is its quantum speed value.

The time system of elementary processes is different from our time system on the surface of the *Earth*. This is the reason we measure them as particles. The time system of elements is infinite times slower than ours, the intensity of their processes is infinite times more.

Elements are like our families – cycles of generations: proton, neutron and electron processes in infinite sequence. There should be no surprise and no smile comparing these “components” to real family members: mother as proton, father as neutron and children as electrons. Why would the rules of *Nature* be different for the elements and for us?!

The key of elementary processes is the *blue shift* provided by the electron process, initiating *red shift*, the drive of the neutron collapse. The more the *Quantum Membrane* is loaded, the more intensive the neutron process is. Can we compare this with the structure of the operation of a family? Yes, we easily can.

The electron process is the continuation of the proton process, just in a different time system. The inflexion point is the common point and the change of the neutron and proton processes.

The intensity of the neutron collapse establishes the *inflexion point*, the turning point of the neutron collapse into proton expansion: The intensity of the turnover, the “depth” of the “*zero point*” is the function of the load of the *Quantum Membrane*.

The higher the load is, the higher is the $\pm(dm/dt)$ intensity gradient – the higher is the intensity of the inflexion point. The higher the intensity of the change at the inflexion point is, the more intensive is the unresolved energy intensity reserve (*quantum*) of the mass energy balance and so the load of the *Quantum Membrane*.

If the process is in balance and stable, everybody in the family is happy.
If the balance is destroyed, the isotope stage is full of problems.

Isotopes are the results of the damage of the elementary balance:

Beta is about electron process intensity problems: if it is more than it should be it results in positron radiation, giving off *blue shift* impact; if less, the consequence is electron radiation, taking *blue shift* impact from external elementary sources.

Gamma is serious damage in the elementary balance. The neutron process turns around and is acting as proton would do.

Neutron radiation is the result of the destruction of the elementary balance between proton and neutron processes. The damaged element is in proton process demand and takes proton process cover from other elements.

Alpha radiation is the process of self-correction of the increased intensity of the element. As *Hydrogen* cannot be released through having an infinite long neutron process and so has never been completed, the only option elements with increased energy intensity have is, to release the next in the row element: *Helium*.

If we know the reason of the formation of isotopes, we become also aware what the best ways of their rehabilitation are. Conventional physics, on particle based approach refuses to accept half-life of isotopes can be impacted. But controlled rehabilitation of isotopes is far not a dream or miracle. Elementary processes are events, happening in time and can be influenced.

Hydrogen is one of the countless beauties of *Nature*.

Do we really think that *Nature* has forgotten about the neutron process of the last elementary process within the infinite chain of elementary transformation?

Do we really think that *Nature* creates elements on different basics?

There is a huge difference *between* accepting the fact that we cannot measure the existence of the neutron process in our time system and stating that *Hydrogen* does not have neutron!

Hydrogen has its never-seems-to-be-ending neutron process with infinite low intensity. There is an “end”, however, with a certain inflexion feature: the *Big Bang* itself when all cycles and generation processes start again.

Water, hydro-carbons are our life components with energy surplus.

The majority of elements are with neutron process dominance.

There are, however, *eight* elements with proton process dominance and electron process *blue shift* surplus: *Hydrogen, Oxygen, Nitrogen, Helium, Carbon, Calcium, Sulphur* and *Silicon*. These are our “saviours”: the basic elements of our life.

Aluminium, Magnesium, Potassium (K), Sodium (Na), Chlorine, Phosphorus, Nickel, Fluor, Titanium, Vanadium are with slight neutron process dominance and electron process *blue shift* deficit but very close to equilibrium stage.

Because of this very close-to-the-balance stage status, these elements are very important components for our life in various compositions with the group of the *eight*.

There are proton and neutron processes available within the soil on the surface of the *Earth*, but without the necessary electron process *blue shift* drive. The missing electron process *blue shift* drive is utilised by *gravitation*. In this way, neutron processes have not been driven and proton processes have not been used to their full capacity.

The only *blue shift* drive is coming from those elements surrounding us with *blue shift* surplus: *Hydrogen, Oxygen, Nitrogen, Helium, Carbon, Calcium, Sulphur and Silicon*.

In other words, soil is full of energy, but without the necessary initiation of the process. *Oxygen, Hydrogen, Nitrogen, Carbon* and *water* are the drives and we ourselves and the vegetation around us are the ones establishing quantum contact and making life happen.

Carbon is the element with the most balanced proton-neutron process relation. This is the main reason a diamond as a definite *Carbon* based mineral has its “non-breakable” elementary structure. The speed value of the quantum communication of the *Carbon* element is $c_c = 300,000$ km/sec.

The calculated speed values of the quantum communication of *Hydrogen, Oxygen and Nitrogen* elements are less than the quantum speed (speed of light) on the surface of the *Earth*. *Gravitation* makes them gaseous and results in their quantum speed value of $c = 300,000$ km/sec on the *Earth* surface.

Gold has its quantum speed of communication: $c_G = 366,000$ km/sec

Uranium is with the highest intensity of its electron process *blue shift* impact and quantum communication. Its quantum speed is: $c_U = 378,000$ km/sec.

Why do minerals keep elements in balanced state with different speeds of quantum communication?

The reason is simple: elements represent the resulting balanced status (created at that depth level of *Earth* and at that time point) between the driving *blue shift* conflict of the *plasma* and the expanding and cooling effect of *Earth gravitation*.

These specific statuses have been identified as *different elements*.

Magnetic effect is the acting *Strong Interrelation* across the *Quantum Membrane*. Electron process *blue shift* impact flow (electricity) intensifies proton and neutron processes and this way their interrelation as well. There is no difference does magnetic effect *Strong Interrelation* work within the *Quantum Membrane* of solid elementary structures or is connecting its end surfaces with proton process and neutron process dominances.

Interruption of magnetic lines generates electricity.

Gravitation as quantum treasure is granted to us for use.

Gravitation, the sphere symmetrical expanding acceleration of *Earth*, is the product of the expanding potential of *Earth's* mass/energy internals.

In other words, the increased quantum speed of natural minerals is part of the driving force of *Earth gravitation*. The *blue shift* conflict of the expanding *plasma* status is the engine, but all hardened minerals deep in *Earth* are part of it. Reserves are deep inside.

Gravitation is *blue shift* impact with energy loss. *Earth* is in permanent loss of *blue shift* impact because of *gravitation*.

Rotation and *gravitation* stimulate electron process *blue shift* impact flow within the *Earth*. While *Earth* itself is with proton process dominance in general, the motion of the *blue shift* impact generates magnetic effect between the two ends of the rotation with relativistic proton process dominancy at one end (*North pole*) and neutron process dominancy (*South pole*) at the other.

Our human life and the history of human culture are and have always been about the search and need for finding new energy sources. The classic format of our energy is *electricity*, the propagating electron process *blue shift* impact.

Gravitation is electron process *blue shift* impact!

We have the options for the use of *gravitation* for the benefit of all of us:

- Elementary processes of pulverised mass in free fall *generate electricity*; result of the impact of the interruption of *Earth* magnetic lines.
- Electron process *blue shift* impact acting from a certain height and *blue shifted* in collision by *Earth* surface *generates electricity*; the form is *red shift* at the level of the release of the original *blue shift* impact.
- *Blue shift* conflict generates *Quantum Membrane* of increased intensity above *Earth* surface; *mechanical* (lifting) capability is the benefit for potential use.

Gravitation: our quantum treasure is an energy source of infinite capacity!

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Gravitation: our Quantum Treasure

is the fourth book of the concept, elements and *Nature* are processes.

The Energy Balance of Relativity, the first book is about the mass/energy balance, the ruling principle of the communication of different relativistic time systems.

All around us is happening in time, differences are in the intensities of the processes. There are infinite time systems existing simultaneously. The intensity of events, measured as impact within systems of reference is function of the time flow. The same “absolute” event has different impact within the elementary world and within the system of reference of the *Earth*.

Communication between systems of reference, their relation to each other depends on their intensity relations. Systems can communicate with each other if time systems are the same.

The Quantum Energy and Mass Balance, the second book is discussing the process based atomic structure. Energy/mass *quantum* is entropy product, the infinite small mass/energy balance difference between proton and neutron processes. Electron process is the *blue shift* drive of the neutron collapse, the end product of the proton expansion. Electron process is sphere symmetrical expanding acceleration at constant speed.

The relation of proton and neutron processes of elements is established by the intensity of the electron process. The intensity coefficient of the electron process is the distinguishing characteristic of elements. Its value for the known elements of the Periodic Table varies from $\lim \varepsilon_x = 0$ to $\varepsilon_x = 1.58$. *Hydrogen* as unique element has a neutron process of infinite low intensity.

Quantum Engine, the third book, provides further explanations and arguments of the process based elementary approach, with examples and options for the utilisation of the quantum energy.

Reading the book without the background of the first three books, *the most important definitions* are:

<i>Quantum System of Reference</i>	accumulation of mass/energy quantum within certain defined quantum space
<i>Quantum Space = space</i>	the space, where events happen in time
<i>Quantum Membrane</i>	the loaded status of the <i>Quantum System of Reference</i> ; the load is electron process <i>blue shift</i> impact
<i>Proton process</i>	sphere symmetrical expanding acceleration from $v = 0$ (the inflexion point) to $i = \lim v = c$
<i>Neutron process</i>	sphere symmetrical accelerating collapse from $i = \lim v = c$ to $v = 0$ (the inflexion point)
<i>Electron process</i>	sphere symmetrical expanding acceleration at constant $i = \lim a\Delta t = c$ speed

The most important formulas are:

Speed accelerates time flow: $dt_v = \frac{dt_o}{\sqrt{1 - \frac{v^2}{c^2}}}$

The intensity of the *proton process*

$$e_p = \frac{dmc_x^2}{dt_p} \left(1 - \sqrt{1 - \frac{v^2}{c_x^2}} \right) = \frac{dmc_x^2}{dt_o} \sqrt{1 - \frac{v^2}{c_x^2}} \left(1 - \sqrt{1 - \frac{v^2}{c_x^2}} \right);$$

where $0 \Rightarrow v \Rightarrow i_x$

and at the end-stage: $e_p = \frac{dmc_x^2}{dt_o} \sqrt{1 - \frac{i_x^2}{c_x^2}} \left(1 - \sqrt{1 - \frac{i_x^2}{c_x^2}} \right) = \frac{dmc_x^2}{dt_{ix}} \left(1 - \sqrt{1 - \frac{i_x^2}{c_x^2}} \right);$

The intensity of the *neutron process*: $e_n =$

$$= \frac{dmc_x^2}{dt_{ix}} \sqrt{1 - \frac{(c_x - i_x)^2}{c_x^2}} \left(\frac{1}{\sqrt{1 - \frac{u^2}{c_x^2}}} - 1 \right) = \frac{dmc_x^2}{dt_o} \sqrt{1 - \frac{i_x^2}{c_x^2}} \sqrt{1 - \frac{(c_x - i_x)^2}{c_x^2}} \left(\frac{1}{\sqrt{1 - \frac{(i_x - v)^2}{c_x^2}}} - 1 \right)$$

where $i_x \Rightarrow v \Rightarrow 0$

at the end-stage:

$$e_n = \frac{dmc_x^2}{dt_o} \sqrt{1 - \frac{i_x^2}{c_x^2}} \sqrt{1 - \frac{(c_x - i_x)^2}{c_x^2}} \left(\frac{1}{\sqrt{1 - \frac{i_x^2}{c_x^2}}} - 1 \right) = - \frac{dmc_x^2}{dt_o} \sqrt{1 - \frac{(c_x - i_x)^2}{c_x^2}} \left(1 - \sqrt{1 - \frac{i_x^2}{c_x^2}} \right)$$

Proton start stage: $\frac{dmc_x^2}{dt_o};$

Proton end stage: $\frac{dmc_x^2}{dt_o} \sqrt{1 - \frac{i_x^2}{c_x^2}};$

Neutron start stage:

$$\frac{dmc_x^2}{dt_o} \sqrt{1 - \frac{i_x^2}{c_x^2}} \sqrt{1 - \frac{(c_x - i_x)^2}{c_x^2}};$$

Neutron end stage:

$$\frac{dmc_x^2}{dt_o} \sqrt{1 - \frac{(c_x - i_x)^2}{c_x^2}};$$

The intensity of the electron process: $e_e = \frac{dmc_x^2}{dt_{ix} \varepsilon_{ix}} \left(1 - \sqrt{1 - \frac{(c_x - i_x)^2}{c_x^2}} \right)$

Intensity coefficient of the electron process: $\varepsilon_{ix} = \frac{\varepsilon_p}{\varepsilon_n} \sqrt{1 - \frac{(c_x - i_x)^2}{c_x^2}};$

Absolute balance of elementary processes:

$$\frac{dmc^2}{dt_p \varepsilon_p} \left(1 - \sqrt{1 - \frac{i^2}{c^2}} \right) = \frac{dmc^2}{dt_n \varepsilon_n} \xi \sqrt{1 - \frac{(c-i)^2}{c^2}} \left(\sqrt{1 - \frac{i^2}{c^2}} - 1 \right)$$

ξ representing the entropy consequence of the cycle.

The energy and mass balance of the most important elements of the Periodic Table
(page 101 of Book 2)

Element	Periodic Number <i>P</i>	<i>M</i> Atomic Weight measured	<i>P</i> Proton Mass	<i>N</i> Neutron Mass	<i>Z</i> = ε_x <i>Event Concentration of the Element, equal to the Intensity Coefficient of the Electron Process</i>
Hydrogen	1	1.0079	1.0072	0.00008	0.000081
Helium	2	4.0026	2.0145	1.9869	0.9863
Carbon	6	12.0110	6.0436	5.9640	0.9868
Nitrogen	7	14.0067	7.0508	6.9519	0.9860
Oxygen	8	15.9990	8.0581	7.9364	0.9849
Sodium (Na)	11	22.9890	11.0799	11.9030	1.0743
Magnesium	12	24.3050	12.0872	12.2111	1.0102
Aluminium	13	26.9815	13.0945	13.8798	1.0560
Silicon	14	28.0855	14.1017	13.9760	0.9911
Phosphorus	15	30.9737	15.1090	15.8564	1.0495
Sulphur	16	32.0600	16.1163	15.9349	0.9887
Chlorine	17	35.4530	17.1235	18.3200	1.0699
Potassium (K)	19	39.0980	19.1381	19.9494	1.0424
Calcium	20	40.0800	20.1454	19.9236	0.9890
Titanium	22	47.9000	22.1599	25.7280	1.1610
Iron	26	55.8470	26.1890	29.6437	1.1319
Cobalt	27	58.9332	27.1962	31.7221	1.1664
Nickel	28	58.7100	28.2035	30.4911	1.0811
Cuprum	29	63.5400	29.2108	34.3132	1.1746
Zinc	30	65.3800	30.2181	35.1454	1.1631
Silver	47	107.8680	47.3416	60.5005	1.2779
Gold	79	196.9665	79.5743	117.3488	1.4747
Mercury	80	200.5900	80.5816	119.9645	1.4887
Thallium	81	204.3700	81.5888	122.7367	1.5043
Lead	82	207.8000	82.5961	125.1589	1.5153
Uranium	92	238.0290	92.6688	145.3097	1.5680
Plutonium	94	244	94.6833	149.2651	1.5765

