

# New-Paradigm view upon our own evolution

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- In contradiction to the Traditional-Paradigm point of view, **life has not originated in some deep past from non-living matter**. The quanta of living matter-spirit originate (also presently) directly from the Universal Quantum Field (Universal Creative Potential), the state of membranes, separating the living quanta from the inanimate quanta in the Quantum Spectrum of Matter-Spirit.
- **Evolution of life is not a spontaneous process**. There is no evolution to any higher forms of life without an evolution forcing change of the physical conditions in the life environment.
- **Natural evolution of higher forms of life on Earth IS NOT an example of a universal natural law**. It is an example of an extraordinarily seldom (maybe even unique in the entire observed Universe) coincidence of astrophysical and geophysical conditions forcing the evolution on Earth during the recent 3.5 milliard years.
- **The lifetime of all taxonomic groups of organisms**, from phylum to species (and below, to civilisations, generations, and individual lives) **is in each case an exactly defined period** of our Cosmic Hierarchy of the Solar System.
- The recent cosmic quantum jump of level 5 of our Cosmic Hierarchy (which culminated 4720 years B.C.E.) **is the first period to study**, if we are trying to understand the details of our own evolution from primitive organisms to human beings.

## Illustrations of the New-Paradigm point of view

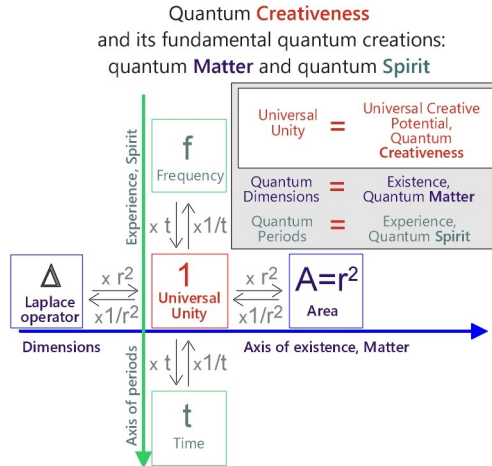


Fig. 1. Quantum Creativeness with its two inseparable components, Matter and Spirit, as the origin of all quanta.

$R \backslash C$	-3	-2	-1	0	1	2	3	4
-3	$x = \mu^n x_u$ $n = C+2R$ $x_u = r_u^C t_u^R$				-5 $\vec{G}$ gravity factor		-3 $\vec{E}^2$ el. field sq.	
-2				-4 $\vec{f}^2$ frequency square	-3 $\vec{a}$ acceleration	-2 $\vec{c}^2$ light-speed square	-1 $\vec{F}$ temporal force change	0 $\vec{P}$ power
-1			-3 $\vec{B}^2$ mag. ind. sq.	-2 $\vec{f}$ frequency	-1 $\vec{c} = H^2$ light speed	0 $\vec{\Phi}_f$ flux of frequency	1 $\vec{F} = i^2$ force	2 $\vec{W}$ energy
0	-3 $\vec{n}$ spatial density	-2 $\vec{\Delta}$ Laplace operator	-1 $\vec{k}$ wave vector	0 $\vec{1}$ universal unity	1 $\vec{r}$ length	2 $\vec{A}$ area	3 $\vec{p}$ momentum	4 $\vec{j}$ action
1		0 $\vec{\sigma}$ electric conductivity	1 $\vec{\rho} = \vec{D}^2$ mass dens.	2 $\vec{t}$ time	3 $\vec{k} \vec{m}$ linear mass distribution	4 $\vec{m}$ mass	5 $\vec{q}^2$ el. charge sq.	
2		2 $\vec{\epsilon}$ dielectric factor	3 $\vec{C}$ electric capacity	4 $\vec{\Phi}_\epsilon$ optical area		$r_u = 5.074 \text{ nm}$ $t_u = 0.197 \text{ ps}$		

Fig. 2. Unified Family of all physical quantities reducing all of them to Quantum Area A and Quantum Period t (comp. Fig. 1).

R\S	-3	-2	-1	0	1	2	3	4
-3					G $6.6816 \cdot 10^{29}$		E <sup>2</sup> $1.7199 \cdot 10^{13}$	
-2				f <sup>2</sup> $2.5885 \cdot 10^{25}$	a $1.3133 \cdot 10^{17}$	c <sup>2</sup> $6.6630 \cdot 10^8$	fF $3.3805 \cdot 10^0$	P $1.7151 \cdot 10^{-8}$
-1			B <sup>2</sup> =j <sup>2</sup> $1.0028 \cdot 10^{21}$	f $5.0877 \cdot 10^{12}$	c=H <sup>2</sup> $2.5813 \cdot 10^4$	Φ <sub>f</sub> $1.3096 \cdot 10^{-4}$	F=i <sup>2</sup> $6.6445 \cdot 10^{-13}$	W $3.3711 \cdot 10^{-21}$
0	n $7.6570 \cdot 10^{24}$	Δ $3.8848 \cdot 10^{16}$	k $1.9710 \cdot 10^8$	1 1.000	r $5.0736 \cdot 10^{-9}$	A $2.5741 \cdot 10^{-17}$	p $1.3060 \cdot 10^{-25}$	J $6.6261 \cdot 10^{-34}$
1		σ $7.6357 \cdot 10^3$	ρ <sub>m</sub> =D <sup>2</sup> $3.8740 \cdot 10^{-5}$	t $1.9655 \cdot 10^{13}$	km $9.9722 \cdot 10^{-22}$	m $5.0595 \cdot 10^{-30}$	q <sup>2</sup> $2.5670 \cdot 10^{-38}$	
2		ε $1.5008 \cdot 10^{-9}$	C $7.6145 \cdot 10^{-18}$	Φ <sub>ε</sub> $3.8633 \cdot 10^{-26}$				

Fig. 3. Universal values of the Unified Family calculated according to their definitions (*comp. Fig. 2*).

R\S	-3	-2	-1	0	1	2	3	4
-3					G $6.6261 \cdot 10^{29}$		E <sup>2</sup> $1.7056 \cdot 10^{13}$	
-2				f <sup>2</sup> $2.5741 \cdot 10^{25}$	a $1.3060 \cdot 10^{17}$	c <sup>2</sup> $6.6261 \cdot 10^8$	fF $3.3618 \cdot 10^0$	P $1.7056 \cdot 10^{-8}$
-1			B <sup>2</sup> =j <sup>2</sup> $1.0000 \cdot 10^{21}$	f $5.0736 \cdot 10^{12}$	c=H <sup>2</sup> $2.5741 \cdot 10^4$	Φ <sub>f</sub> $1.3060 \cdot 10^{-4}$	F=i <sup>2</sup> $6.6261 \cdot 10^{-13}$	W $3.3618 \cdot 10^{-21}$
0	n $7.6570 \cdot 10^{24}$	Δ $3.8848 \cdot 10^{16}$	k $1.9710 \cdot 10^8$	1 1.000	r $5.0736 \cdot 10^{-9}$	A $2.5741 \cdot 10^{-17}$	p $1.3060 \cdot 10^{-25}$	J $6.6261 \cdot 10^{-34}$
1		σ $7.6570 \cdot 10^3$	ρ <sub>m</sub> =D <sup>2</sup> $3.8848 \cdot 10^{-5}$	t $1.9710 \cdot 10^{13}$	km $1.0000 \cdot 10^{-21}$	m $5.0736 \cdot 10^{-30}$	q <sup>2</sup> $2.5741 \cdot 10^{-38}$	
2		ε $1.5092 \cdot 10^{-9}$	C $7.6570 \cdot 10^{-18}$	Φ <sub>ε</sub> $3.8848 \cdot 10^{-26}$				

Fig. 4. Universal values of the Unified Family (*comp. Fig. 3*) reduced to the cosmic single-parameter model ("absolute second").

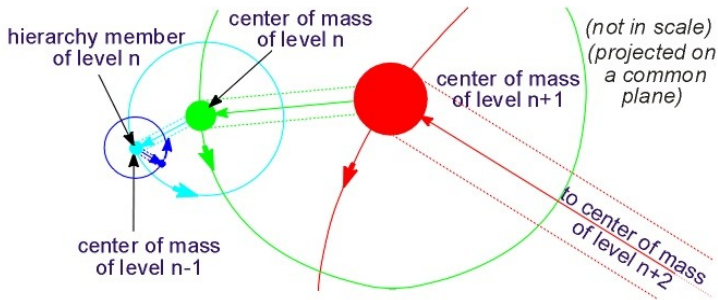
Material class	Const. $\Phi_f, P, B, E$	$\sim\mu^1$ $r, c^{-1}, U, H$	$\sim\mu^2$ $t, W, i, D$	$\sim\mu^3$ $p, a^{-1}, \Phi_H, C$	$\sim\mu^4$ $m, J, q, \bar{\mu}$	Electro-magnetic radiation in vacuum
Superbrain cells	-1	-10 <sup>8</sup>	-10 <sup>16</sup>	-10 <sup>24</sup>	-10 <sup>32</sup>	Extra-long waves
Brain cells	-1	-10 <sup>7</sup>	-10 <sup>14</sup>	-10 <sup>21</sup>	-10 <sup>28</sup>	Radio waves
Nerve cells	-1	-10 <sup>6</sup>	-10 <sup>12</sup>	-10 <sup>18</sup>	-10 <sup>24</sup>	Micro-waves
Tissue cells	-1	-10 <sup>5</sup>	-10 <sup>10</sup>	-10 <sup>15</sup>	-10 <sup>20</sup>	Far-Infrared
Membranes	-1	-10 <sup>4</sup>	-10 <sup>8</sup>	-10 <sup>12</sup>	-10 <sup>16</sup>	Infrared
Molecules	-1	-10 <sup>3</sup>	-10 <sup>6</sup>	-10 <sup>9</sup>	-10 <sup>12</sup>	Visible
Atoms	-1	-10 <sup>2</sup>	-10 <sup>4</sup>	-10 <sup>6</sup>	-10 <sup>8</sup>	Ultraviolet
Atomic nuclei	-1	-10 <sup>1</sup>	-10 <sup>2</sup>	-10 <sup>3</sup>	-10 <sup>4</sup>	X-rays
Quarks	-1	-10 <sup>-1</sup>	-10 <sup>-2</sup>	-10 <sup>-3</sup>	-10 <sup>-4</sup>	$\gamma$ -rays
	-1	-10 <sup>-2</sup>	-10 <sup>-4</sup>	-10 <sup>-6</sup>	-10 <sup>-8</sup>	Cosmic rays
	-1	-10 <sup>-3</sup>	-10 <sup>-6</sup>	-10 <sup>-9</sup>	-10 <sup>-12</sup>	
	-1	-10 <sup>-4</sup>	-10 <sup>-8</sup>	-10 <sup>-12</sup>	-10 <sup>-16</sup>	
	-1	-10 <sup>-5</sup>	-10 <sup>-10</sup>	-10 <sup>-15</sup>	-10 <sup>-20</sup>	
	-1	-10 <sup>-6</sup>	-10 <sup>-12</sup>	-10 <sup>-18</sup>	-10 <sup>-24</sup>	
	-1	-10 <sup>-7</sup>	-10 <sup>-14</sup>	-10 <sup>-21</sup>	-10 <sup>-28</sup>	
	-1	-10 <sup>-8</sup>	-10 <sup>-16</sup>	-10 <sup>-24</sup>	-10 <sup>-32</sup>	

Fig. 5. Relative Quantum Spectrum of Matter-Spirit; a "library" of all possible quanta in our Universe. The values are shown in relation to the universal values of Fig. 4 for each quantity, as listed in the table caption, for five classes of the material dependence ( $\mu^0$  to  $\mu^4$ ), according to their definitions in Fig. 2.

### Typical values for all possible classes of matter-spirit quanta

Cl.	Quantum	Size	Frequen- cy	Tempera- ture	Velocity	Voltage
4	<i>Superbrain cells</i>	<i>0.5 m</i>	<i>~2/hour</i>	<i>2.4 <math>\mu</math>K</i>	<i>0.26 mm/s</i>	<i>2 MV</i>
3	Brain cells	5 mm	5 Hz	240 $\mu$ K	2.6 cm/s	20 kV
2	Nerve cells	50 $\mu$ m	50 kHz	24 mK	2.6 m/s	200 V
1	Tissue cells	0.5 $\mu$ m	500 MHz	2.4 K	260 m/s	2 V
<b>0</b>	<b>Membranes</b>	<b>5 nm</b>	<b>5 THz</b>	<b>240 K</b>	<b>26 km/s</b>	<b>20 mV</b>
-1	Molecules	50 pm	50 PHz	24 kK	2.6 Mm/s	200 $\mu$ V
-2	Atoms	0.5 pm	500 EHz	2.4 MK	260 Mm/s	2 $\mu$ V
-3	Atomic nuclei	5 fm	$5 \times 10^{24}$ Hz	240 MK	26 Gm/s	20 nV
-4	<i>Quarks</i>	<i>50 am</i>	<i><math>5 \times 10^{28}</math> Hz</i>	<i>24 GK</i>	<i>2.6 Tm/s</i>	<i>200 pV</i>

### "Energy bridges" between three adjacent levels of the Cosmic Hierarchy



The energy absorbed (mostly during cosmic impacts) by a coloured object (here green, cyan or blue) reaches its maximum when this object crosses a differently coloured "bridge" (for instance, the red one) between a higher hierarchy member and its center of mass.

Fig. 6. Three adjacent levels of a Cosmic Hierarchy; an energetic arrangement of the cosmic objects in the directly observable cosmic environment into a hierarchically ordered system.

### Two quantum jumps of level $n$ of the Cosmic Hierarchy

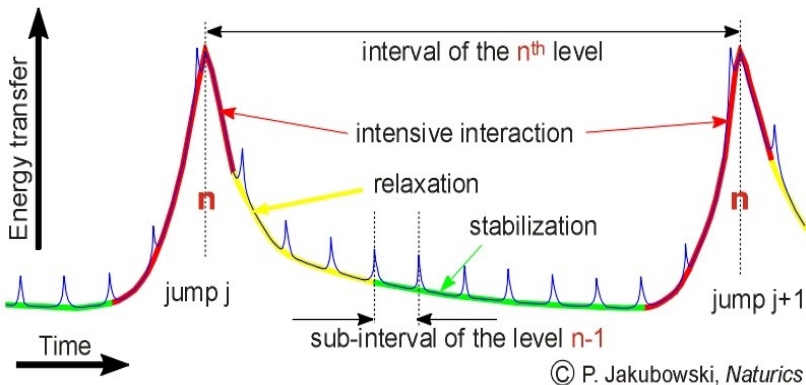


Fig. 7. Energy transfer to the observer's cosmic object during a complete period of level  $n$  of a Cosmic Hierarchy, showing the quantum jumps at its beginning and at its end, together with the corresponding cosmic quantum jumps of level  $n-1$  in between.

**Main properties of the Cosmic Hierarchy of the Solar System**

L	Object	Cycle [yr] = Radius [ULy]	Radius [AU]	Relative velocity [km/s]	Mass [M <sub>Proto-Sun</sub> ]
9	Sloan Great Attractor	3.585*10 <sup>9</sup>	1.951*10 <sup>10</sup>	2033.2	1.056*10 <sup>26</sup>
8	Great Attractor	295.2*10 <sup>6</sup>	1.607*10 <sup>9</sup>	1089.2	5.898*10 <sup>22</sup>
7	Virgo Cluster of Galaxies	24.311*10 <sup>6</sup>	1.323*10 <sup>8</sup>	583.48	3.294*10 <sup>19</sup>
6	Andromeda Group of Galaxies	2.0021*10 <sup>6</sup>	1.090*10 <sup>7</sup>	312.57	1.840*10 <sup>16</sup>
5	Large Magellan Cloud	164878	8.974*10 <sup>5</sup>	167.44	1.028*10 <sup>13</sup>
4	Omega Centauri Cluster	13578.3	7.390*10 <sup>4</sup>	89.698	5.739*10 <sup>9</sup>
3	Orion Complex	1118.22	6085.97	48.051	3.206*10 <sup>6</sup>
2	Ursa Major Moving Group	92.0896	501.201	25.741	1790.4155
1	Solar System	7.58390	41.2757	13.76	1
0	Proto-Sun	0.62456	3.39920	–	1/1790
S	–	cqn <sup>8</sup>	cqn <sup>8</sup>	cqn <sup>2</sup>	cqn <sup>24</sup>

colour code used above:	Exactly the same value as observed	The same observed order of magnitude	Level discovered with Unified Physics
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Notes:

a) L – level; S – scale factor.

b) The above used units and symbols are:

- the cosmic quantum number,  $cqn = 1.3662801$ ; (from our relation of the present mass density of the Solar System to that of the Proto-Solar System, that will be explained in further text); the used powers of this number are:  $cqn^2 = 1.8667213$ ;  $cqn^8 = 12.142775$ ;  $cqn^{24} = 1790.4155$ ;
- the universal speed of light,  $c_u = 25741.16$  m/s; (it is one of the new discoveries of the Unified Physics);
- the astronomical unit of distance,  $AU = 1.492581 \cdot 10^{11}$  m; (the mean Earth-Sun distance);
- the universal light year,  $ULy = 8.123429 \cdot 10^{11}$  m = 5.442538 AU; (the distance, a light-ray travels with the universal speed,  $c_u$ , during a year).

c) The universal velocity of light in the original Proto-Solar System was the same as in the whole observable Universe; it equals 25741.16 m/s. Therefore, the previous distance of the Proto-Sun to its “Dark Companion” - *Andrea-Star* (of 7.58390 ULy) has to be the same as the present Sun’s distance to the Kuiper-Belt center of mass: ( 7.58390 ULy ) x ( 25741.16 m/s ) = 41.2757 AU.

### Energy “bridges” between three levels of our Cosmic Hierarchy

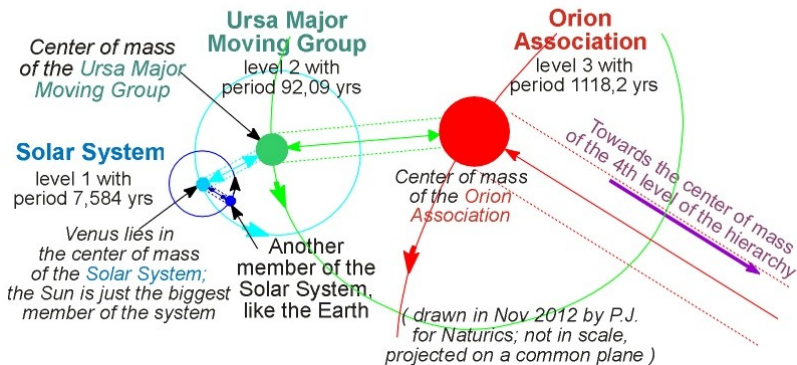


Fig. 8. Three lowest levels of our Cosmic Hierarchy of the Solar System (compare the table defining the Cosmic Hierarchy).



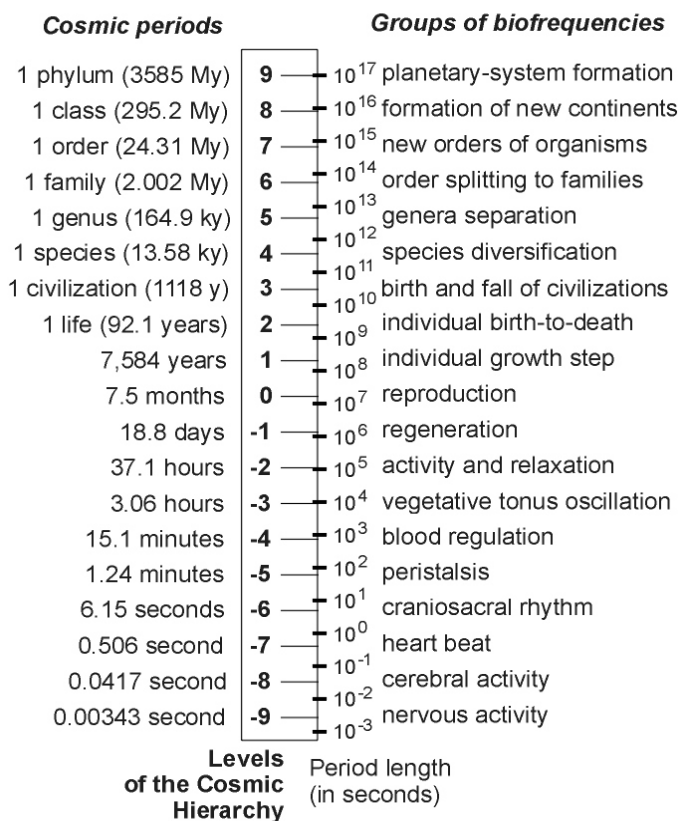


Fig. 9. Complete spectrum of bioresonances including all levels between the cycle of planetary system formation (+9) and the cycle of the highest nervous activity (-9), all scaled with the single scaling factor of our Cosmic Hierarchy of the Solar System of 12.1428 (*comp. the defining table*).

<i><b>Super-groups of biofrequencies</b></i>		<i><b>Individual groups of biofrequencies</b></i>	
planetary waves (evolution base)	1 phylum	<b>9</b> —	planetary-system formation
	1 class	<b>8</b> —	formation of new continents
	1 order	<b>7</b> —	new orders of organisms
evolutionary waves (species evolution)	1 family	<b>6</b> —	order splitting to families
	1 genus	<b>5</b> —	genera separation
	1 species	<b>4</b> —	species diversification
civilizing waves (social rhythmic)	1 civilization	<b>3</b> —	birth and fall of civilizations
	1 life	<b>2</b> —	individual birth-to-death
	7,584 y	<b>1</b> —	individual growth step
universal waves	7.5 m	<b>0</b> —	reproduction
body waves (nutritive rhythmic)	18.8 d	<b>-1</b> —	regeneration
	37.1 h	<b>-2</b> —	activity and relaxation
	3.06 h	<b>-3</b> —	vegetative tonus oscillation
organ waves (tissue rhythmic)	15.1 min	<b>-4</b> —	blood regulation
	1.24 min	<b>-5</b> —	peristalsis
	6.15 sec	<b>-6</b> —	craniosacral rhythm
brain waves (nervous rhythmic)	0.506 sec	<b>-7</b> —	heart beat
	0.0417 sec	<b>-8</b> —	cerebral activity
	0.00343 sec	<b>-9</b> —	nervous activity

**Levels of the  
Cosmic Hierarchy**

Fig. 10. Preliminary proposal for analysis of the complete spectrum of bioresonances from Fig.9.

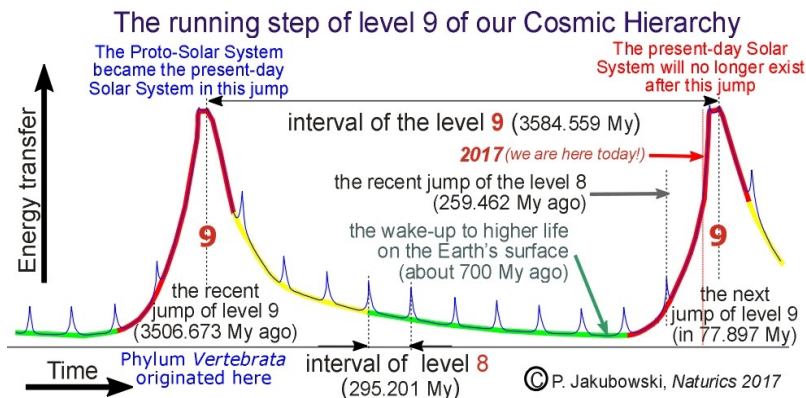


Fig. 11. The running step of level 9 of our Cosmic Hierarchy and its sub-periods of level 8; note that the red arrow points to our present position on this diagram. Our Moon has originated at the period beginning.

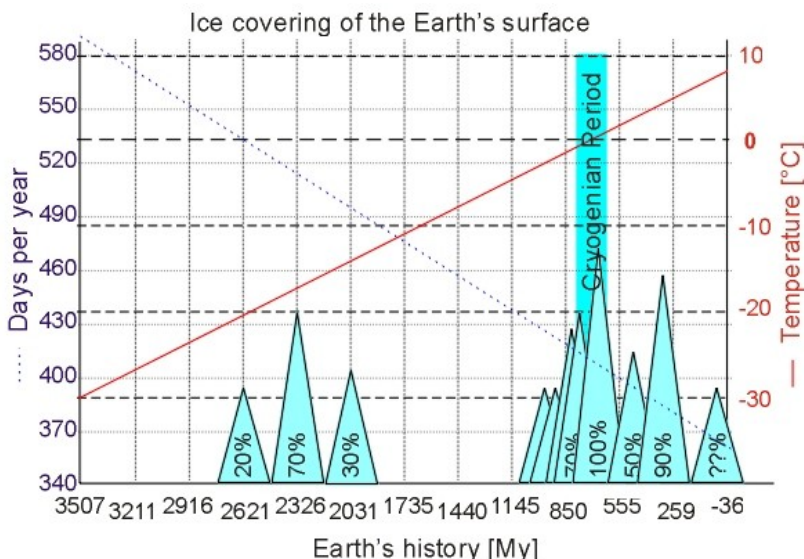


Fig. 12. The running step of level 9 of our Cosmic Hierarchy; the Cryogenian Period (Earth's surface temperature  $T = 0 \pm 1^\circ\text{C}$ ) was the time of the real origin of the oceans on the Earth's surface.

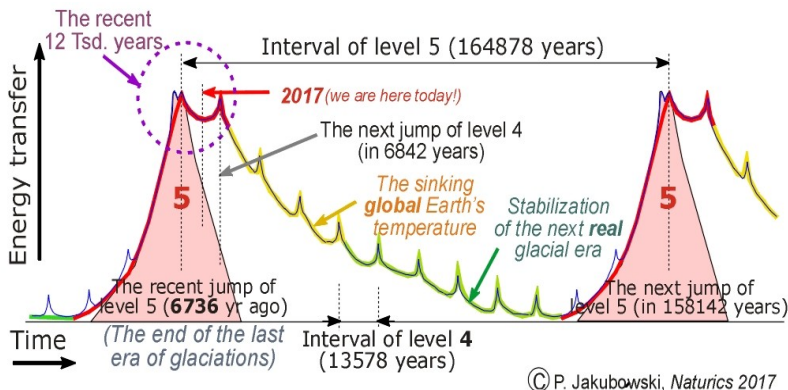


Fig. 13. The running step of level 5 of our Cosmic Hierarchy

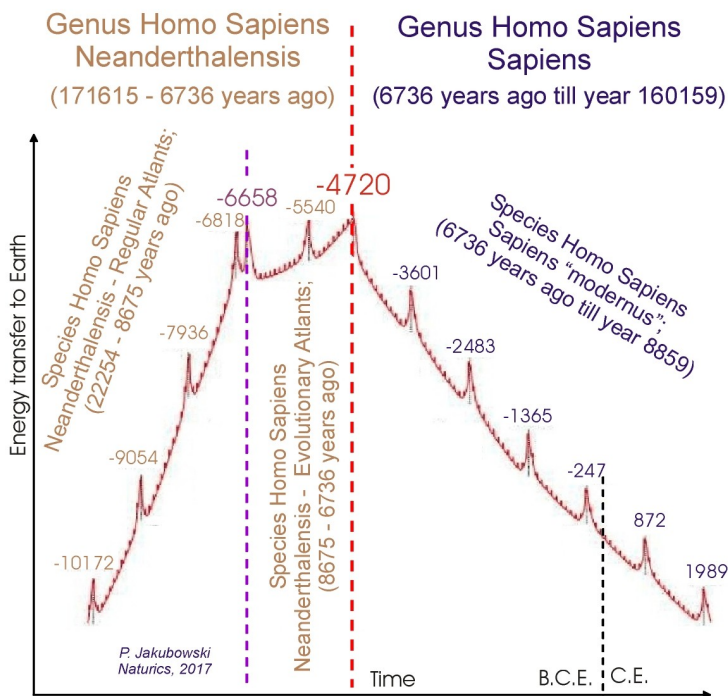


Fig. 14. The recent 12 thousand years of our evolution (*comp. the circled fragment of Fig. 13*).

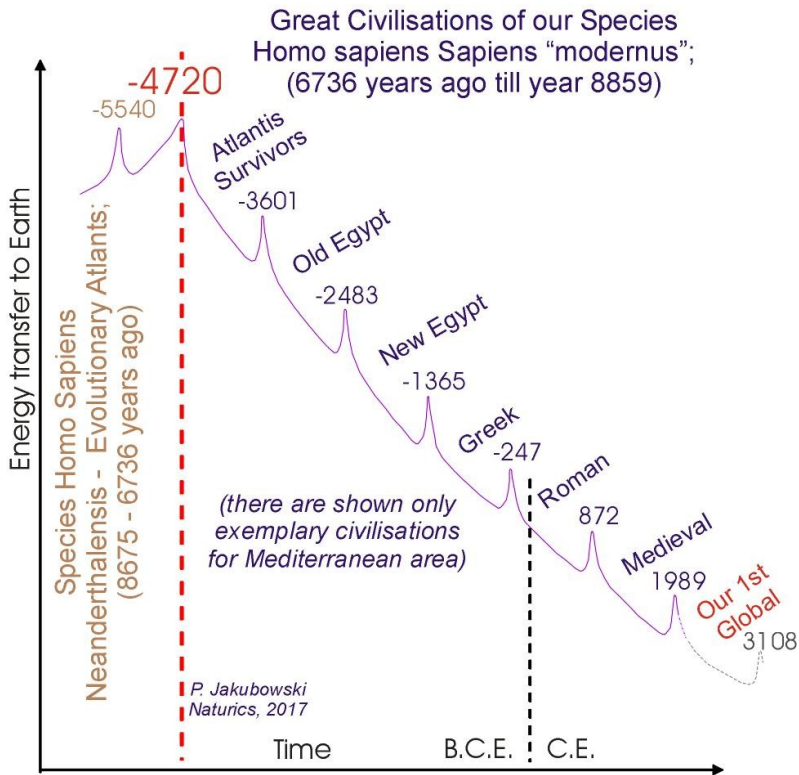


Fig. 15. Examples of the Great Civilisations of our own Species since its origin directly from the last Species of the Genus *Homo sapiens Neanderthalensis* (comp. Figs. 14 and 13).