

## THE CONCEPTS of a UNIFORM PICTURE of the WORLD

IVANOV BORIS P.

The All-Russia Research Centre « S.I. Vavilov State Optical Institute » Russia, St.-Petersburg, 199034, Exchange line д. 12, (812) 3282208, (812) 5575320 houses

In clause some rules(situations) of the theory, stated in his(its) book « PHYSICAL model to the universe » are resulted

Following the basic principle of study of a Nature: - from simple to complex(difficult) we shall begin a statement of the given message from the statement: - irrespective of size of volume of Space of the universe the basic form of existence of a Matter is its(her) system which has received the name of the organizational form of a Matter or brief (OFM). This system of a Matter represents its(her) clot which is settling down in volume of an open sphere as continuous environment(Wednesday), organizing near to the centre a firm nucleus (core) of high density of a Matter sharply passing in a physical field, extending in all sphere, of small density of a Matter, which absent-minded weight математически is displayed by function of a standing wave:

$$m_{OFM}(r) = Z / \sqrt{r} [ 1 + 5/6 \exp(-ik\sqrt{r}) ] \cos \phi \cos \theta$$

Where: Z - generalized charge OFM, r - distance up to сингулярного of the centre OFM,

$k = 2\pi / r_0$  - wave parameter,  $r_0$  - radius of a nucleus OFM,  
 $\phi, \theta$  - corners between radius - vector and with axes X and Y accordingly.

The diagram of this function is represented in a fig. 1. The top curve corresponds(meets) to behaviour of extending weight itself OFM depending on distance up to сингулярного of the centre OFM.

The bottom curve - value of absent-minded weight of microenvironment(microWednesday) (ether) of the universe penetrating through continuous environment(Wednesday) OFM, which by a standing spherical wave is broken both inside a nucleus, and in a physical field into shells with radiuses equal:

$$r_k = r_0 k^2 \quad (\text{где : } k = 1, 2, 3, \dots, 256)$$

$m_{OFM} = Z / \sqrt{r} \{ 1 + 5/6 \exp[-ik(\omega t - k\sqrt{r})] \} \cos \phi \cos \theta$  - radiational a spherical wave of a Matter,

$\rho(\phi) = v(r) / \omega(r) 1/\phi$  - Trajectory of flows of a whirlwind in polar system of coordinates.

Where:  $\omega = 2\pi\nu$  - Angular frequency излучаемой of a spherical wave OFM,

$\nu = 2\pi r_0$  - Frequency of fluctuations of physical processes of a nucleus OFM,

$t$  - time (  $t = 1 / v$  ),  
 $V(r) = V_0 \sqrt{r}$  - Radial speed of movement of an element of a Matter of a whirlwind OFM,  
 $V_0 = \sqrt{r_0}$  - Speed of movement of a nucleus OFM,  
 $\omega(r) = \sqrt{\alpha_k / r}$  - Angular speed of rotation of an element of a Matter of a whirlwind OFM,  
 $\alpha_k$  - Constant Кеплера (geo- or гелиоцентрическая constant)

The organizational form of a Matter (ОФМ) is in an environment of other objects of the universe radiating a spherical wave of a Matter. Their total set from all sphere 4 стерадиан is organized in directrash to the centre ОФМ a spherical wave of microenvironment(microWednesday) (ether) of the universe and simultaneously in втекающий in this the centre a whirlwind ( vortx ) by Dcartes:

$m_{эфир}(r) = Z / \sqrt{r} [ 1 + 5/6 \exp(-ik \sqrt{r}) ] \cos\phi \cos\theta$  - Spherical wave, pulled together to the centre, of a Matter of an ether of the universe,

$\rho_{эфир}(\varphi) = V(r) / \omega(r) \cdot 1 / (\varphi + \pi / 2)$  - Trajectory flowing in the centre OFM of elements of an ether.

Continuous environment(Wednesday) of spherical waves and whirlwinds consists of set of flows of microobjects with extents, decreasing to zero, with casual distribution them in various spatially - temporary points. Microobjects are arranged under the laws of the organizational form of a Matter - have nucleuses and own physical fields, by means of which congestion of microobjects cooperate among themselves. As a result of these interactions in two counter casual flows of microobjects there is a determined (uncasual) physical process, математически displayed ковариацией of two stochastic functions. Therefore result интерференции некогерентных of counter spherical waves of a Matter математически is determined:

$$\text{Cov} [ m_{офм}(r) m_{эфир}(r) ]^{1/2} = Z / \sqrt{r} [ 1 + 5/6 \exp(-ik \sqrt{r}) ] \cos\phi \cos\theta$$

As we see function of a standing spherical wave of a Matter ОФМ does not depend on time, as at интерференции когерентных of counter waves. In connection with stated the extending wave represents a driven cloud consisting of incalculable set of microobjects with extents, discretely decreasing to zero. For each value of their size there is a huge quantity(amount) of microobjects, identical on extent, between which there are only forces of pushing away. It results in crystal structure of places of a rule(situation) of identical microobjects.

Излучаемые by them the spherical waves from any orientation them диполей are organized in a uniform cross wave of a various degree of polarization. The stated integrated physical picture explains the following properties of wave processes: поперечность and продольность of fluctuations, polarization of waves, degree когерентности, поли- and монохроматизм of wave flows. The presence at

anyone OFM of a firm nucleus is explained quantum effects of its(her) energy, and presence of a whirlwind - by(with) a constant Rod.

In излучаемых flows of microobjects of a missing spherical wave there are carriers

Interactions penetrating inside of nucleuses соседствующих OFM and creating the central force:

$$F_{ц} = v ( r ) Z / r [ 1 + 5/6 \exp ( - ik\sqrt{r} ) ] \cos \phi \cos \theta$$

где :  $v ( r )$  - Frequency of fluctuations of a spherical wave, radiational by a nucleus OFM.

The presence at the central force of wave properties allows to explain till now inexplicable following facts:

- Inertia of forward and rotary movements, and also occurrence of centrifugal force at rotation of a body around of a motionless axis,
- Phase condition of substance from firm to liquid and газообразному and other condition,
- Elastic properties of firm bodies, not сжимаемость of a liquid and physics of its(her) boiling,
- Physics of a natural radio-activity of chemical elements,
- Occurrence of electrical and magnetic power(force) lines,
- Physics корпускулярно - wave дуализма of microparticles (protons, электронов and фотонов),
- Physics of a hysteresis of the electrical, magnetic and thermal phenomena of a Nature,
- From a uniform position all forces, known for a science, - strong, electrical, gravitational and weak and many other phenomena are explained.

The force of interaction between two neighbourhood OFM is equal kovariation of intensity of the central forces:

$$F_{вз} = Cov[F_{ц1}(r)F_{ц2}(r)] = v_1(r)v_2 Z_1 Z_2 / r [ 1 + 5/6 \exp(-ik_1\sqrt{r}) ] * [ 1 + 5/6 \exp(-ik_2\sqrt{r}) ] \cos \phi \cos \theta$$

At equality of radiuses of nucleuses cooperating OFM between them there are forces of pushing away. In other cases there is a force of an attraction of a nucleus of smaller radius to a nucleus of greater radius.

The matter of a physical field OFM consists of set of huge quantity(amount) of microobjects

With extents, reducing to zero. Owing to interaction between microobjects by means of own physical fields in one and volume volume of space of a physical field arise of a various sort of a congestion with the integrated characteristics. So simultaneously in a physical field OFM there are congestions of microobjects describing integrated value of absent-minded weight OFM :  $M ( r ) = Z \int m ( r ) dr = 2 Z \sqrt{r}$ . And congestions describing extending weight of a physical field OFM. These two congestions of microobjects by means of their integrated fields cooperate among themselves and organize generalized with constant value of

absent-minded weight OFM. The result of this interaction математически is displayed ковариацией of amplitude between integrated and extending of weights of a physical field OFM, owing to casual distribution of microobjects in various spatially - temporary points:

$$\text{Cov} [ M(r) m(r) ] = Z^{-1/2} \text{-a generalized charge .}$$

Volumetric density of the generalized charge coincides with concept of an electrical charge and is the constant universe independent from size of radius of a nucleus OFM.

The stated concepts allow to formulate physical sense кинетической of energy and weight of objects of the universe. Кинетическая the energy of a firm body represents an integrated pulse of set of microobjects with various extents and their speeds, of which the body consists:

$$W = \sum m_i \int V dv = m v^2 / 2$$

Weight is a constant quantity(amount) of microobjects making a basis of continuous environment(Wednesday) OFM.

From two OFM at their close rapprochement, when the nucleus by one OFM is put in a nucleus another OFM, there is a generalized organizational form of a Matter extending whih weight is equal:

$$m_{\text{общ}}(r) = Z / \sqrt{r} (1 + 1/\sqrt{1 + \Delta r / r}) [1 + 5/6 \exp(-ik \sqrt{r})]$$

Where: r - distance centre to centre of nucleuses incorporated OFM

As we see, the size of total extending weight new OFM, received at merge two OFM is less than the arithmetic sum of each of them. It explains defect of weight.

It is necessary to emphasize, that any located object of the universe irrespective of size of his(its) extent that - whether a galaxy, - whether electron, - whether foton or ether-object are arranged equally under the laws of the organizational form of a Matter (OFM). For this reason OFM is invariant, self-similar unit of a Matter all the World.

Let's proceed(pass) to consideration of the complex(difficult) phenomena occurring both in continuous environment(Wednesday) OFM, and in microenvironment(microWednesday) and ether of the universe.

The matter fills in all external boundless and internal inexhaustible Space of the universe as изотропной and uniform continuous environment(Wednesday), which consists of incalculable set of objects with an infinite chain (circuit) of discrete values of extents from indefinite - large up to sizes, aspiring to zero. By means of own physical fields between objects, identical on extent, irrespective of their size there are only forces of pushing away. Therefore in any congestion the located objects, identical on extent, among other objects with the large or smaller sizes aspire to be organized in crystal structure with a primary arrangement of objects of the identical sizes in units of a lattice. The located objects, located in its(her) units, with the equal sizes borrow(occupy) in local points a part of Space of the universe and with the help of own physical fields in aggregate organize volumetric подпространство by the universe.

In intervals between these objects other objects with smaller, but equal among themselves extents in близи of units of other lattice in aggregate organizing own volumetric underspace, enclosed in the underspace of identical objects of the greater extent settle down. So there are parallel worlds. Indefinitely continuing filling of the stayed intervals by objects, identical on extent, with the sizes, decreasing to zero, we come to concept of continuous environment(Wednesday) with infinite quantity(amount) подпространств (parallel worlds), consistently enclosed one in another: from the bottom levels in the top levels of organization of a Matter of the universe, that testifies to hierarchy ( subordination) smaller large OFM.

At last we pay your attention that by means of own physical fields the located objects of the universe, cooperating among themselves, are grouped in structural levels of a matter, for example, set of galaxies, stars, planets, comets. And further following sets of microobjects: molecules, atoms, protons, электронов, фотонов and continuing to go deep into internal Space of the universe shall come to an ether and more thin matter, which sizes aspire to zero not reaching(achieving) it(him). Stated is displayed in tables 1 and 2 whence it follows, what with reduction to zero of extents эфиробъектов them over light speed of distribution continuously grow indefinitely. Simultaneously with it, the sizes of physical fields эфиробъектов are increased, that promotes interaction between them on the indefinitely distances, uniting all unending universe in uniform majestic Supersystem. Therefore inexhaustible internal Space of the universe filled with an ether, is as a whole motionless, high-temperature, superfluid, изотропной and uniform, superthin environment(Wednesday) of the universe. In each point of this environment(Wednesday) the trajectories of incalculable set эфиробъектов, Space, driven from all sphere, of the universe are crossed. In units of crossings of trajectories эфиробъектов the clots of a Matter, which parameters are organized: - their size, weight, energy, density and the structure is continuous by a casual image change. This idea proves to be true флуктуациями of vacuum. With rather small probability in these units can simultaneously be crossed huge quantity(amount) эфиробъектов of hundred twenty eight structural levels of a Matter Interaction these эфиробъектов by means of own physical fields can result in occurrence of the steady or unstable organizational form of a Matter, i.e. to occurrence of substance from microenvironment(microWednesday) of the universe.

Thus, ether - in whole motionless very rarefied microenvironment(microWednesday) characterized by extremely low pressure, small density and weight of its(her) elements. And in too time this environment(Wednesday) is characterized over a heat, owing to which all located objects become transparent except for the central area OFM with infinite value of density of a Matter. In this area OFM incalculable flows эфиробъектов dissipate inside a nucleus, engendering simultaneously both missing spherical wave, and following whirlwind OFM. By this process becomes isolated eternal huge кругооборот of a Matter of the universe simultaneously on all located objects of an infinite sequence of structural levels of a Matter.

Owing to existence of various structural levels of a Matter the science was compelled to investigate the phenomena of a Nature differentiation, creating narrow directions, for example, mechanics, Dynamics(changes), molecular and

nuclear physics, electrodynamics(electrochanges) and optics. With development of the theory OFM it is represented an opportunity with a uniform position to carry out(spend) the further researches of a Nature.

Was found out, that with change of radiuses of nucleuses of the located objects the physical sizes describing their matter, including universal physical constant change. On other space objects these constant will have other values.

Was found out, that all functional dependences in coordinates of Space of the universe (CSU) with a unique(sole) axis абцисс - sizes of extents of nucleuses OFM математически are displayed as sedate functions with fractional and integer parameters of a degree. Therefore in logarithmic scale these functional dependences are represented as a bunch(beam) of straight linees crossed near to a beginning of coordinates as shown in рис.3.

In first and third квадрантах the straight linees describing quantitative characteristics of a Matter OFM settle down. In second and fourth квадрантах settle down кинематические of the characteristic of a Matter OFM.

Any element of environment(Wednesday) OFM consists of the located microobjects having nucleuses and own physical fields, by means of which these microobjects cooperate among themselves, forming independent among themselves integrated congestions - association as the parallel worlds described not only quantitative parities(ratio) of a Matter OFM, but also generalized кинематическими in parameters of movement of microobjects of these congestions.

It is necessary especially to emphasize, that the flows of microobjects in a physical field OFM are characterized by casual distribution of events in various spatial - temporary points, ковариация between which is by the uncasual (determined) function. The determined process arises owing to interaction between microobjects by means of own physical fields.

In connection with stated the laws of Preservation of a Matter of the universe carry not additive, and multiply character. Therefore ковариация кинематических of functions (see рис.3) with quantitative dependences describing environment(Wednesday) OFM are CONSTANTS of the universe, Independent from size of extents of the located objects (OFM). At the same time, the constant universe are the sizes of volumetric density of the generalized charge (Z), pulse of a nucleus OFM and its(her) moment of quantity(amount) of movement.

In microenvironment(microWednesday) of the universe simultaneously in the same space in common there are congestions and associations both with the determined processes, and with casual processes, i.e. in common there is a chaos and order continuously passing one in another as uniform system of a Matter.

In the book of the author Ivanov B.P. « the Physical model of the Universe » is stated the theory of a Uniform picture of the World. (publishing house Polyengineering, 2000r. 313 pages. St.-Petersburg). The theory in the book satisfies to all methodological principles of a science with an estimation of reliability of the received results and with предсказаниями. At a theoretical and high qualitative level the beginnings of the mathematical analysis and algebras are explained by all inexplicable modern science, known for the author, of the

phenomenon of a lifeless nature in all areas of physics, astronomy and geology with the help of evident images.

It is necessary especially to emphasize, that the major half-empirical laws of classical physics, for example, laws of Newton and Кулона, гидро- and aerostatics, laws of an electricity, magnetism, nuclear physics and optics follow from the theory stated in the book as consequences. The received physical and mathematical results can serve as System of readout for the further research of a Great Nature in all narrow-specialization directions of a science.

Thank for attention! By all of kind health and successes on тернистом of a way of knowledge of our majestic and severe Universe!

#### STRUCTUREL LEVELS OF MATTER (SLM) OF THE UNIVERSE AND SLM BEING PART OF THE EARTH

TABLE 1

NN СУМ	Структурные пласты Материи	Наименование структурных уровней Материи (СУМ)	Верхние и нижние границы ОФМ	Средние геометрические радиусы ОФМ	Кинетическая энергия скоплений ОФМ	Собственные частоты ОФМ
1	2	3	4	5	6	7
$\infty$		К выше стоящим структурным	$\infty$	$\infty$	$\infty$	0
$\uparrow$		уровням Материи	$\uparrow$	$\uparrow$	$\uparrow$	$\uparrow$
21,0		Кратные Квазары	$8,8 * 10^{\wedge} 43$	$7,78 * 10^{\wedge} 42$	$4,50 * 10^{\wedge} 61$	$2,89 * 10^{\wedge} - 64$
20,0		Квазары	$6,88 * 10^{\wedge} 41$	$6,08 * 10^{\wedge} 40$	$3,11 * 10^{\wedge} 58$	$4,19 * 10^{\wedge} - 61$
19,0		Радиогалактики	$5,38 * 10^{\wedge} 39$	$475 * 10^{\wedge} 38$	$2,14 * 10^{\wedge} 55$	$6,07 * 10^{\wedge} - 58$
18,0		Сверхскопления галактик	$4,20 * 10^{\wedge} 37$	$3,70 * 10^{\wedge} 36$	$1,48 * 10^{\wedge} 52$	$8,79 * 10^{\wedge} - 55$
17,0		Скопления галактик	$3,28 * 10^{\wedge} 35$	$2,90 * 10^{\wedge} 34$	$1,02 * 10^{\wedge} 49$	$1,27 * 10^{\wedge} - 51$
16,0		Кратные галактики	$2,56 * 10^{\wedge} 33$	$2,26 * 10^{\wedge} 32$	$7,06 * 10^{\wedge} 45$	$1,84 * 10^{\wedge} - 48$
15,0		Гипергалактики	$2,00 * 10^{\wedge} 31$	$1,77 * 10^{\wedge} 30$	$4,88 * 10^{\wedge} 42$	$2,67 * 10^{\wedge} - 45$
14,0		Галактики	$1,56 * 10^{\wedge} 29$	$1,38 * 10^{\wedge} 28$	$3,37 * 10^{\wedge} 39$	$3,86 * 10^{\wedge} - 42$
13,0		Субгалактики	$1622 * 10^{\wedge} 27$	$1,08 * 10^{\wedge} 26$	$2,33 * 10^{\wedge} 36$	$5,60 * 10^{\wedge} - 39$
12,0		Гипершаровые скопления	$9,55 * 10^{\wedge} 24$	$8,44 * 10^{\wedge} 23$	$1,60 * 10^{\wedge} 33$	$8,10 * 10^{\wedge} - 36$
11,0		Шаровые скопления звезд	$7,46 * 10^{\wedge} 22$	$6,59 * 10^{\wedge} 21$	$1,11 * 10^{\wedge} 30$	$1,17 * 10^{\wedge} - 32$
10,0		Субшаровые скопления звезд	$5,84 * 10^{\wedge} 20$	$5,15 * 10^{\wedge} 19$	$7,66 * 10^{\wedge} 26$	$1,70 * 10^{\wedge} - 29$
9,0		Рассеянные скопления звезд	$4,55 * 10^{\wedge} 18$	$4,02 * 10^{\wedge} 17$	$5,29 * 10^{\wedge} 23$	$2,46 * 10^{\wedge} - 26$
8,0		Кратные звезды	$3,65 * 10^{\wedge} 16$	$3,14 * 10^{\wedge} 15$	$3,65 * 10^{\wedge} 20$	$3,56 * 10^{\wedge} - 23$
7,0		Гиперзвезды	$2,78 * 10^{\wedge} 14$	$2,45 * 10^{\wedge} 13$	$2,52 * 10^{\wedge} 17$	$5,16 * 10^{\wedge} - 20$
6,0		Звезды	$2,17 * 10^{\wedge} 12$	$1,92 * 10^{\wedge} 11$	$1,74 * 10^{\wedge} 14$	$4,13 * 10^{\wedge} - 19$
5,0		Субзвезды	$1,70 * 10^{\wedge} 10$	$1,50 * 10^{\wedge} 09$	$1,20 * 10^{\wedge} 11$	$5,98 * 10^{\wedge} - 16$
4,0		Планеты	$1,33 * 10^{\wedge} 08$	$1,17 * 10^{\wedge} 07$	$8,30 * 10^{\wedge} 07$	$8,66 * 10^{\wedge} - 13$
3,0		Астеронды	$1,04 * 10^{\wedge} 06$	$9,15 * 10^{\wedge} 04$	$5,73 * 10^{\wedge} 04$	$1,25 * 10^{\wedge} - 09$
2,0		Кометы	8092	715	39,60	$1,82 * 10^{\wedge} - 06$
1,00		Глыбы ( гиперметеороиды )	63,22	5,58	$2,73 * 10^{\wedge} - 02$	$2,63 * 10^{\wedge} - 03$
0,1		Гравий ( метеороиды )	0,4939	$4,36 * 10^{\wedge} - 02$	$1,89 * 10^{\wedge} - 05$	3,81
0,2		Песок ( микрометеороиды )	$3,66 * 10^{\wedge} - 03$	$3,41 * 10^{\wedge} - 04$	$1,30 * 10^{\wedge} - 08$	$5,51 * 10^{\wedge} 03$
0,3		Пыль ( алеврит )	$3,00 * 10^{\wedge} - 05$	$2,66 * 10^{\wedge} - 06$	$9,00 * 10^{\wedge} - 12$	$7,99 * 10^{\wedge} 06$
0,4		Кристаллы	$2,35 * 10^{\wedge} - 07$	$2,08 * 10^{\wedge} - 08$	$6,22 * 10^{\wedge} - 15$	$1,17 * 10^{\wedge} 10$

NN СУМ	Структурные пласты Материи	Наименование структурных уровней Материи (СУМ)	Верхние и нижние границы ОФМ	Средние геометрические радиусы ОФМ	Кинетическая энергия скоплений ОФМ	Собственные частоты ОФМ
0,5		Кластеры	$1,84 \cdot 10^{-09}$	$1,62 \cdot 10^{-10}$	$4,29 \cdot 10^{-18}$	$1,67 \cdot 10^{13}$
0,6		Молекулы	$1,44 \cdot 10^{-11}$	$1,27 \cdot 10^{-12}$	$2,96 \cdot 10^{-21}$	$2,42 \cdot 10^{16}$
0,7		Атомы	$1,12 \cdot 10^{-13}$	$9,92 \cdot 10^{-15}$	$2,05 \cdot 10^{-24}$	$3,51 \cdot 10^{19}$
0,8		Нуклиды	$9,53 \cdot 10^{-16}$	$7,75 \cdot 10^{-17}$	$1,41 \cdot 10^{-27}$	$5,09 \cdot 10^{22}$
0,9		Протоны	$7,44 \cdot 10^{-18}$	$6,05 \cdot 10^{-19}$	$9,76 \cdot 10^{-31}$	$7,37 \cdot 10^{25}$
0,10		Электроны	$5,82 \cdot 10^{-20}$	$4,73 \cdot 10^{-21}$	$6,74 \cdot 10^{-34}$	$1,07 \cdot 10^{29}$
0,11		Позитроны	$4,54 \cdot 10^{-22}$	$3,69 \cdot 10^{-23}$	$4,65 \cdot 10^{-37}$	$1,55 \cdot 10^{32}$
0,12		Субэлектроны	$3,55 \cdot 10^{-24}$	$2,88 \cdot 10^{-25}$	$3,21 \cdot 10^{-40}$	
0,13		γ-кванты	$2,77 \cdot 10^{-26}$	$2,25 \cdot 10^{-27}$	$2,22 \cdot 10^{-43}$	$2,23 \cdot 10^{35}$
0,14		Рентгеновские лучи	$1,69 \cdot 10^{-30}$	$1,76 \cdot 10^{-29}$	$1,53 \cdot 10^{-46}$	$3,24 \cdot 10^{38}$
0,15		Видимые лучи	$1,32 \cdot 10^{-32}$	$1,38 \cdot 10^{-31}$	$1,06 \cdot 10^{-49}$	$4,69 \cdot 10^{41}$
0,16		СВЧ и ВЧ	$1,03 \cdot 10^{-34}$	$1,07 \cdot 10^{-33}$	$7,31 \cdot 10^{-53}$	$6,79 \cdot 10^{44}$
0,17		Средние радиоволны	$8,07 \cdot 10^{-37}$	$8,04 \cdot 10^{-36}$	$5,05 \cdot 10^{-56}$	$9,83 \cdot 10^{47}$
0,18		Длинные радиоволны	$6,31 \cdot 10^{-39}$	$6,56 \cdot 10^{-38}$	$3,49 \cdot 10^{-59}$	$1,42 \cdot 10^{51}$
0,19		Низкие частоты	$4,93 \cdot 10^{-41}$	$5,13 \cdot 10^{-40}$	$2,41 \cdot 10^{-62}$	$2,06 \cdot 10^{54}$
0,20		Инфранизкие частоты	$3,85 \cdot 10^{-43}$	$4,00 \cdot 10^{-42}$	$1,66 \cdot 10^{-65}$	$2,98 \cdot 10^{57}$
0,21		21-слой (СУМ)	$3,00 \cdot 10^{-45}$	$3,13 \cdot 10^{-44}$	$1,15 \cdot 10^{-68}$	$4,32 \cdot 10^{60}$
0,22		22-слой (СУМ)	$2,35 \cdot 10^{-47}$	$2,44 \cdot 10^{-46}$	$7,93 \cdot 10^{-72}$	$6,26 \cdot 10^{63}$
0,23		23-слой (СУМ)	$1,83 \cdot 10^{-49}$	$1,91 \cdot 10^{-48}$	$5,48 \cdot 10^{-75}$	$9,07 \cdot 10^{66}$
0,24		24-слой (СУМ)	$1,43 \cdot 10^{-51}$	$1,49 \cdot 10^{-50}$	$3,78 \cdot 10^{-78}$	$1,31 \cdot 10^{70}$
0,25		25-слой (СУМ)	$1,12 \cdot 10^{-53}$	$1,17 \cdot 10^{-52}$	$2,61 \cdot 10^{-81}$	$1,90 \cdot 10^{73}$
0,26		26-слой (СУМ)	$8,75 \cdot 10^{-56}$	$9,10 \cdot 10^{-55}$	$1,80 \cdot 10^{-84}$	$2,75 \cdot 10^{76}$
0,27		27-слой (СУМ)	$6,84 \cdot 10^{-58}$	$7,12 \cdot 10^{-57}$	$1,25 \cdot 10^{-87}$	$4,00 \cdot 10^{79}$
0,28		28-слой (СУМ)	$5,34 \cdot 10^{-60}$	$5,56 \cdot 10^{-59}$	$8,60 \cdot 10^{-91}$	$5,77 \cdot 10^{82}$
			$4,17 \cdot 10^{-62}$			$8,36 \cdot 10^{85}$
↓		↓ к внутренним СУМ и к эфиру Вселенной				