

**FUNDAMENTAL LAW OF BINARY PLURALITY OF WORLD****Tetior A.**

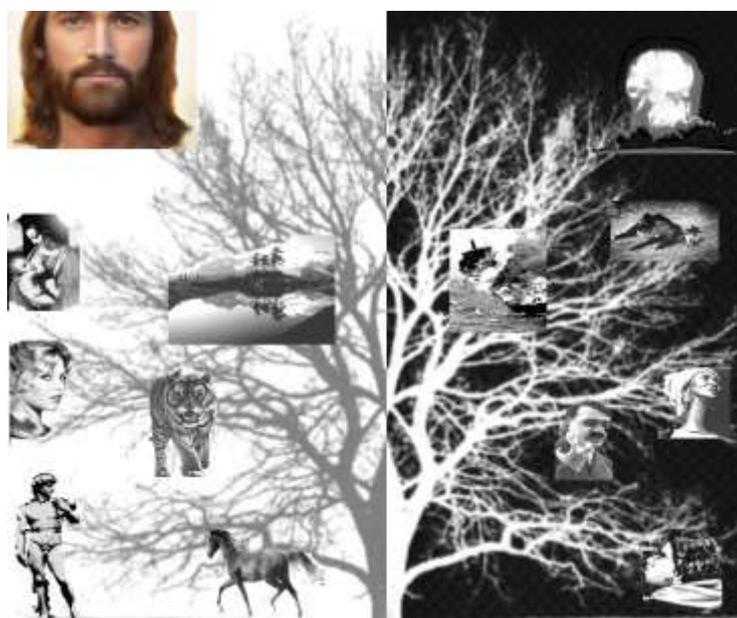
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**ABSTRACT:** *The whole World (Universe) develops with branching and balancing of branches. The World, all its objects and phenomena, their parameters are multiple, not one-way manifold, and multi - positive, negative, and neutral, with many intermediate qualities. The space of our existence lies between good and evil, virtue and sins, beauty and disgrace, meaning and meaninglessness, stability and volatility of development. A person would like to see the space being closer to the positive pole, that people were most virtuous, intelligent, and beautiful, with a deep sense of their unique life. However, one-sidedly positive man (with rare exceptions) and World are not exist, except for fairy tales. It seems there is the most fundamental law of binary plurality of World. Perhaps the binary plurality of World, nature and man is their dialectical (i.e. reflecting the most general patterns) property.*

**KEY WORDS:** branching development; binary plurality; law of plurality; human qualities; binary oppositions

**INTRODUCTION**

Almost each phenomenon and subject of the World have property of binary plurality, manifested as their separation on the properties and qualities of the subset of duality, with the minimum and maximum, sometimes with opposite polar values. The World develops with branching, creating all objects and phenomena with many positive, negative and intermediate qualities (fig. 1).



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Figure 1. Tree of a binary multiplicity of World in equilibrium: truth and falsehood, good and evil, life and death, beauty and ugliness, etc.

Often sample extreme parameters in these subsets are completely opposite on quantity or quality, and they can be called opposites. So opposites are a variety of objects and phenomena - plus and minus, analysis and synthesis,

attraction and repulsion, action and reaction, etc. (among them are zero properties). These binary oppositions are necessary qualities of the World, interacting and mutually reinforcing. Probably, many binary signs distributed by one of the known laws, likely to normal, which, as is well known, the model for many physical phenomena. These values are not always fully (symmetrical) opposite: for example, the duality of high and low temperatures: low tempera-

ture is absolute zero, whereas for high temperatures possible limit much more: known temperature in the millions of degrees. Between these extremes, there are many intermediate temperatures, which are not always in equilibrium.

The multiplicity of objects and phenomena, and the duality of their properties are objective quality, resulting from its branching evolution [4, 5]. The evolution of the World generates binary multiple objects and phenomena and their properties; binary plurality of objects and phenomena provides the existence and development of the World (fig. 2). The role of the duality of all objects and phenomena is very high, and in an effort to exclude a plurality or its duality more or less unpleasant, inconvenient for a person, a man must remember about these dialectical properties. Positive, negative and intermediate subsets of objects and phenomena are equal and necessary for its existence and development.

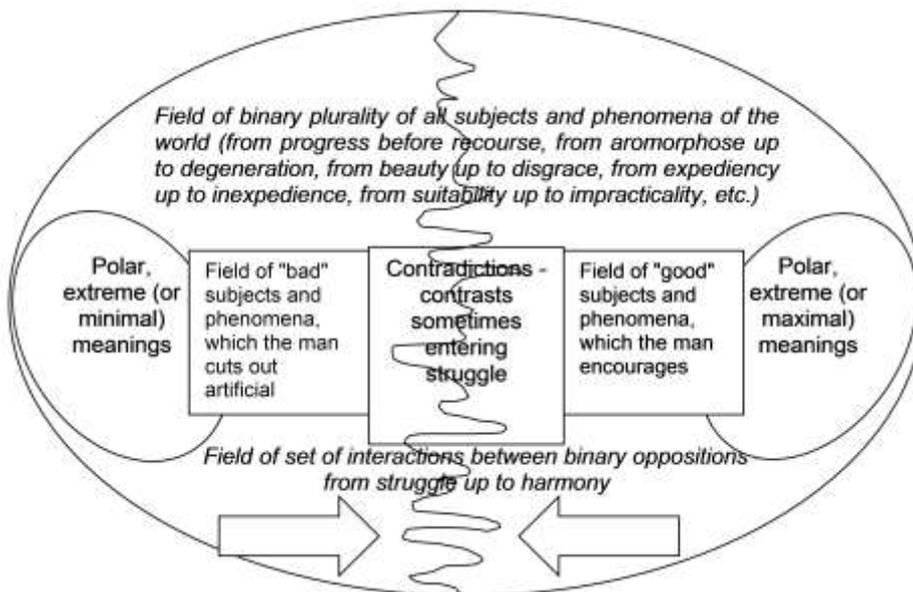
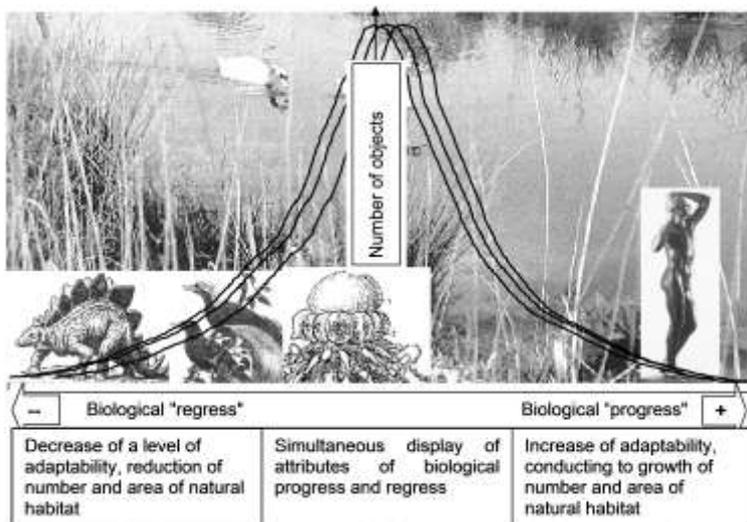


Figure. 2. Field of binary plurality of all objects and phenomena

Plurality and its duality are generated by evolution of the World and represent the dialectical means for its security, for the existence of the World. The World apparently cannot exist and evolve without

binary multiplicity. Binary multiplicity of objects and phenomena is unremovable quality. Active intervention with a view to eliminating negative signs of the world and man, quick improvement of humanity, are not allowed.



As a result of branching development was created all World with a multitude of objects and phenomena with positive, negative, and intermediate qualities. All these qualities are equal for evolution, including progress and regress (fig. 3).

Figure 3. Distribution of nature qualities

Probably a lot of people is accountable for the proper distribution of the Gauss integral on their positivity, neutrality or negativity. Then mankind can be divided into two (equilibrium?)

half. One of them will be presented to people with more positive characteristics. On the right side of the distribution will be a small number of the best and most selfless people who themselves altruists, fully to the service of humanity, such as Mother Teresa, Mahatma Gandhi, and finally, Jesus Christ. The other half will be people with increasingly negative characteristics. At the end of most negative by a combined basis of people - Judas, Genghis Khan, Hitler, Stalin, etc. (fig. 4).

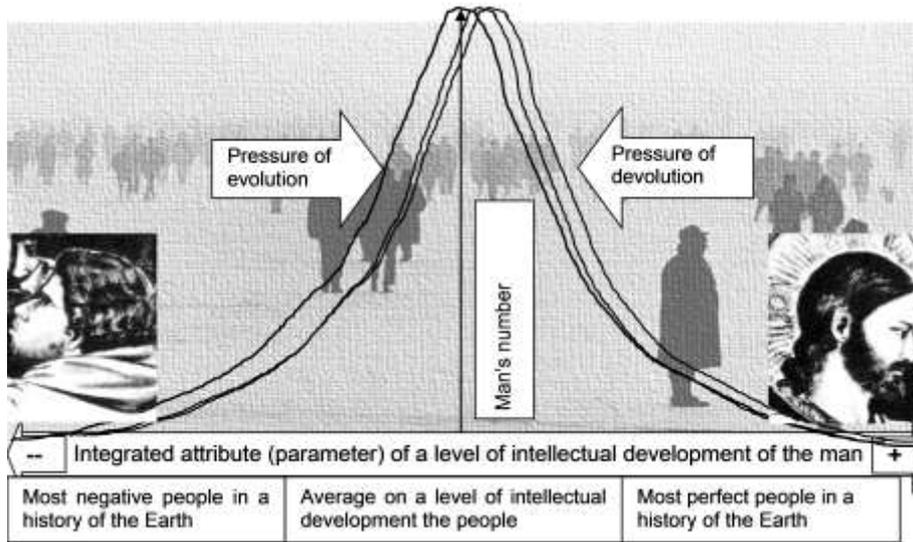


Fig. 4. Gaussian distribution of integral attributes of people qualities

Evolutionarily enshrined simplified perception of the world by man as a legacy of ancestral animals necessary for survival, resulted in the creation of three simplified laws of dialectics. They are only part of the real multiple laws of

world. Instead of these laws, do not take into account the multiplicity of the world are invited to enter: the law of plurality of binary objects and phenomena of the world and their interactions; the law of branching cyclic development of world with balancing branches and further convergence; the law of dynamic integrity of binary plural world.

A man aspires to the simplified perception of reality. This has the ethological origins [5]. In response to the stimulus person remembers a limited number of pieces of information that are not comparable with the actual high volume, it is not inclined to and sometimes is not able to analyze the complexity of the world. Man lives in short-term memory, parts of which are the most iconic memory short 3 item and touch memory only what effect the stimulus with a maximum capacity of 7-9 elements [3].

Duality of the perception of reality and response was formed during human evolution, as a representative of the animal world among other organisms of nature to ensure natural homeostasis. Dual analysis of reality (bad-good situations, especially if they have high biological price) is much faster than multiple [4, 5]. Dual perception of reality is one of the most necessary coping mechanisms in nature: animal must instantly choose a path of survival: "danger-security", "friend-foe", "run-stand", "good-bad", "attack-protected", etc. Therefore, in the process of natural evolution was embedded simplified binary and even single thinking. Obviously, this is a way of thinking altogether in all living organisms in nature, if they survived the process of evolution (fig. 5).

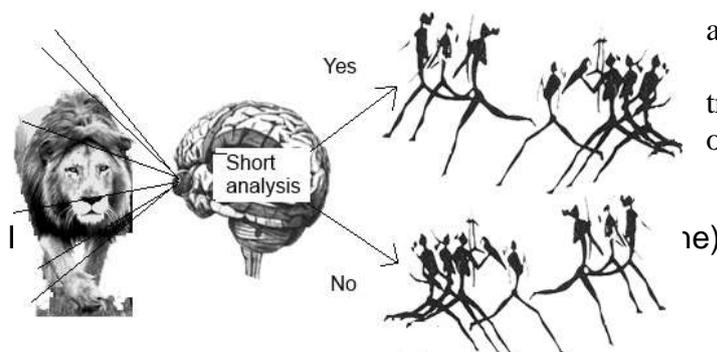


Figure 5. Genesis of quickly dual response

Scientists analyze usually extreme, mini-maximum parameters (the oppositions), and therefore they is often

referred to as the universal form of inconsistencies of existence, unity and struggle of opposites. All these laws, resulting from simplified ways of thinking and because based on the parameters 2-3 (unity - fight, negation of the negation, etc. [2]) must be replaced by the more general law of plurality of binary. Binary opposition is the extreme parameters of objects and phenomena; in reality many parameters lies between them (table 1).

Таблица 1

## Binary oppositions

	Object	Extreme binary oppositions	Realistic condition
1	Universe	Expansion - compression of the Universe Particles - antiparticles Usual stars - black holes Hot - cold stars Galaxies - Intergalactic Space, etc.	Binary plurality of objects and phenomena
2	Solar system	Lifelessness - life Big planets - minor planets Attraction - centrifugal force in rotating Cosmic chill - high temperatures Weight - weightlessness, etc.	Binary plurality of objects and phenomena
3	Earth	Cold shell - hot core Air - airless space Live - non-living nature, etc.	Binary plurality of objects and phenomena
4	Earth: components of landscape and its status	Land - sea, continents - Ocean Mountains - basins Deserts - rain forests Ebb - flow Blossoming - fading Hurricane - calm Drought - rain, etc.	Binary plurality of components of landscapes and its status
5	Earth: time of year and day	Winter - summer, spring - autumn Day - night, morning - evening Sunrise - sunset, moon, etc.	Binary plurality of phenomena
6	Earth: quality of wildlife	Beauty - ugliness Expediency - inappropriateness Balance - imbalance Predators - victims Male - female, etc.	Binary plurality of objects and phenomena
7	Condition of living beings	Birth - death Growth - degradation Evolution - devolution Assimilation - dissimilation Heredity - variability Life - lifelessness Reproduction - extinction Health - disease Wake - sleep, etc.	Binary plurality of objects and phenomena
8	Objects of the materi-	Macro - and microcosm, Giants and dwarfs Infinity - limb	Binary plurality of objects and phenomena

	al world	Activity (chemistry, physics) - neutrality Hardness - softness, fragility - plasticity Rigidity - flexibility, etc.	na
9	Properties of elements and materials	Light - heavy elements Neutral - reactive Non-radioactive - radioactive Acid - alkali Particles –antiparticles, etc.	Binary plurality of properties of objects and phenomena
10	Physical phenomena	Pole electric: plus - minus Pole of the magnet (attraction - repulsion) Cold - heat, absolute minus - high temperature Motion - rest Light - darkness Weight - weightlessness Thunder (strong sound) - silence Action - resistance Entropy – negentropy, etc.	Binary plurality of phenomena properties
11	Sensory effects	White - black color Warm - cold color Nice - vile odor Nice - awful taste Nice, well-balanced sound - cacophony, etc.	Binary plurality of properties of objects and phenomena
12	Human relations	Altruism - egoism Freedom - slavery Free development - oppression Love - hate Respect, assistance - contempt, exploitation Truth - lie, deception Equality - inequality, etc.	Binary plurality of phenomena properties
13	Human activity	Physical - brainwork Creative – non creative work Peace - destructive activities Humane - inhuman activity Eco-friendly – non eco-friendly activity Joyful - bonded labour, etc.	Binary plurality of phenomena properties
14	Environment	Natural - artificial Clean, healthy - contaminated, harmful Beautiful - ugly, etc.	Binary plurality of phenomena properties
15	Human qualities	Beauty - ugliness Physical normality - abnormality Psychic normality - abnormality Mind - absence of mind, talent - absence Courage - cowardice, communicative -avoidant Gentleness - roughness, softness - hardness Honesty - mendacity, diligence - laziness, etc.	Binary plurality of phenomena properties
16	Thinking,	Analysis – synthesis, induction - deduction	Binary plurality of

	higher nervous activity	Excitation - inhibition Irradiation - concentration of nerve impulse, etc.	phenomena properties
17	Religious beliefs	Belief - disbelief God - devil Paradise - hell Heaven - hell (underground space) Angels in white robes - black Devils, etc.	Binary plurality of properties of objects and phenomena
18	Feelings	Joy - grief Good - evil Satisfaction - dissatisfaction Sympathy - envy, hatred Unity - disunity, etc.	Binary plurality of phenomena properties
19	State of the world and countries	War - peace Development - degradation Poverty – wealth Stability - instability development Creation - destruction, etc.	Binary plurality of phenomena properties

Binary plurality of objects and phenomena of the World is a general property of the World. The law of binary plurality is the universal law of reality (which can replace the three laws of Hegel dialectics - the unity and struggle of opposites, etc.). Binary plurality serves for the existence and evolution of the Universe, and for its circular, endlessly repeating development. Most of the critical phenomena in scale of Universe, of individual galaxies, stars, solar system and the Earth could not occur if was not specified in advance by evolution to binary multiplicity of elements and their properties [1]. Such is the evolution of stars and galaxies, when a substance in the Universe evolved to complex forms.

At the scale of the Universe, from the moment of the initial explosion, comes the increase in the number of elements (from the original - helium and hydrogen - to discovered more than 100), which confirms the idea of the law of binary plurality in the inanimate nature. Why so many elements of inanimate nature was created? How it was predetermined that this number and these properties of the elements would be enough to emerge a diversity of inanimate nature, of wildlife, appeared life originated? Maybe binary multiple of these elements so diverse properties (from the lightest to the heaviest, from neutral to active, and so on), these elements are so accounted for all possible combinations of properties and that more of them quantity is not required (and, perhaps, impossible) [1].

## CONCLUSION

The whole World (Universe) develops with branching; all objects and phenomena, their parameters are multiple (positive, negative, and neutral from the point of view of the person), with many intermediate qualities. As a result was created the binary plural World in which the law of binary plurality operates. The law reads follows: all objects and phenomena of the World are binary plural; positive, negative and many intermediate subsets of objects and phenomena of the World are equal and necessary for its existence and development. Fundamental law of binary plurality of objects and phenomena of the World is the universal law of reality,

which would replace the known simplified laws of Hegel dialectics - the unity and struggle of opposites, etc. Binary plurality is a general property of objects and phenomena of the World, the purpose of which is to ensure not only the existence and evolution of the Universe, but the cyclical, endlessly repeating development.

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