

Vladimir Sibirtsev

Whole Universe

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This book presents an integrated, substantially renewed picture of the World. It contains quite a new knowledge that the basis of matter are not atoms and elementary particles but infinitely small structureless primary particles; that the source of all kinds of energy is absolute vacuum, that the visible Universe presents different structural ensembles of primary particles and vacuum.

It is proved that there have been numberless multitudes of Big Bangs in the Universe, that all areas of the Universe are by information connected among themselves with waves of primary particles and their ensembles. On these same waves, the troops of the World Mind are communicated with each other in the mode of real time. It is shown that life is a universal instead of planetary or galaxy phenomenon. It is proved in the book that God is the World Mind, and religion is a system of knowledge and faith in God.

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The supposed audience of the book includes those who are interested to know about the origin and the future life in the Universe, the essence of God, science and religion.

PREFACE

This book gives a picture of the entire infinite Universe from the minutest particle of matter to the largest fields formed by big bangs.

It is safe to say that such a picture of the Universe has never been drawn before.

My hope for this book is that it will give the reader a chance to come a step towards understanding the ideal model of the Universe.

Unlike the popular best sellers of Stephen Hawking and Brian Greene exposing modern advancements of physics, this book comprises physics, and cosmogenesis, and genetics, as well as philosophy, informatics, religion, futurology and other sciences. So for one group of readers some parts of the book will be more interesting and comprehensible, for another group other parts. However, in spite of possible difficulty, the reader who will be wilful enough to read it all will have an integrated idea of the Universe comprising nature and social and spiritual world.

This work can be attributed to metaphysics if metaphysics is understood in the spirit of William James (as an unnaturally stubborn idea to reach the model of clarity) and in the spirit of Bertrand Russell (as an attempt to grasp the world as a whole by means of thinking).

To grasp the world as a whole by means of thinking is the very purpose of this book. It is the result of a fundamental instead of applied study. The book is of an epistemological character and is based on the data from the modern physics, astronomy, genetics and futurology.

The modern science is based on experiments and on a huge mathematical apparatus. In this book, in contrast, you will not find

formulae, there is only a couple of simple arithmetic calculations accessible even to a reader with no more than elementary education. However, this does not mean that the mathematical apparatus cannot be applied to the picture of micro and macro world drawn here.

All chapters of the book are closely interconnected. So in order to better understand the next chapters it is needed to comprehend the previous ones.

It is necessary at least briefly to note those statements and hypotheses which belong personally to the author and which determine the logic of the whole book.

The author proceeds from understanding the universe as an integral and self-sufficient system, existing eternally, not having spatial boundaries and not needing any other, external influence or ordering. It is ordered by its own, internally emerging laws, acting at each level of its structure. Since it is boundless in space and time, no trans-boundary areas and essences exist. The universe is cognisable. It has nothing supernatural, only something not yet cognised by the earthly mind.

The properties of the endless space where the universe exists do not depend on matter and do not determine the properties of matter. Material objects make it possible only to identify subspaces.

Instead of “arrows of time” metaphor this book suggests a metaphor of endless plurality of arrows of time which permeate the infinite-dimensional space. Time is the result of all processes of the universe.

The endless universe exists in the infinite-dimensional space and infinite-dimensional time.

The universe consists of two substances: matter and absolute void (vacuum). Matter is the construction material of the universe, the opposite of vacuum.

The tiniest particle and basis of matter are primary particles, which are non-creatable and non-destroyable. Between them there is only vacuum which is the primary font of all kinds and all energy of the universe. Primary particles cannot turn into the vacuum or emerge from the vacuum. Primary particles in the absolute vacuum can only move at an infinitely high rate.

The primary particles and vacuum quanta form dupoles which join together into ever more complex ensembles up to elementary particles, and then atoms and molecules. The book puts forward hypotheses of the essence of ether, positive and negative charges and poles, force lines, electric and magnetic fields which are the material basis of waves and rays, as well as of the essence of photon, graviton, neutrino and annihilation.

So far it has been accepted that the universe had come into being 15-20 billion years ago in the result of the Big Bang from one point. In this author's opinion, big bangs and areas in the universe formed by them have been and will be an infinite plurality. The book shows the mechanism of big bangs and draws the picture of the pulsing universe.

It is shown in the book that elementary particles and atoms form, on the one hand, stars, planets and other celestial bodies. On the other hand, on some planets there appear inorganic and organic molecules, genetic apparatus of DNA and RNA, living cells and organisms, the information from which is transmitted on the waves of primary particles and simplest

ensembles at an infinitely high rate to all planets of the universe promoting life to spring up and develop on them. The modern science has established that 15-20 billion years that have elapsed after the Big Bang in our area of the universe were not enough for life to appear and develop in the result of fortuitous processes. If, on the other hand, life was gradually appearing and developing in different areas of big bangs, then time limitations are removed. Over the infinite plurality of billions of years each step in the development of life on a certain planet within the given big bang has been transmitted due to the waves of primary particles to all other planets of the universe accelerating on them the process of life. And this is going on, up to the appearance of the human brain – the only possible organ of mind.

All thinking creatures of all planetary civilizations of the universe are united on the waves of primary particles into the Universal Mind. Comparing to the human being and the earth civilization, the Universal Mind was originated infinitely long ago and it is possible to claim that It is eternal and infinite. It is all-seeing, all-knowing and all-powerful. It is God. It can be firmly said that every human, people and mankind “are under God” and He predetermines our destinies.

Human is a part of God and as such he should serve God, i.e. the Universal Mind, to be a firm link in the chain of His eternal existence. This is the ultimate goal and meaning of human life. And the goal of the Universal Mind and human is cognisance of the Universe and of himself.

The concluding, sixth, chapter reveals the essence of information, knowledge, thinking and reason and gives the definition of science as a system of all knowledge of reality and religion as a system of knowledge

and faith in God. Science and religion do not run counter each other but are two flows of the same “faith-knowledge” river.

As to an attempt at looking into the future, it is made on the basis of social optimism. God – the Universal Mind is interested in the highest development of each civilization and shows to them (and to us – living on the earth) the prospects of development. We should believe that God will help us long live and develop!

Chapter I. SPACE AND TIME

1.1. Space

What is space? Space and its properties. Are space and matter interlinked?

Space can be occupied with matter, but can be unoccupied – then it is absolute or physical vacuum. At the micro level, matter and vacuum alternate and interrupt each other. But at the macro level absolutely void space exists only in mind. It is an abstraction: mentally we remove all matter and start operating with the void, with net space.

The first question that arises at the highest level of abstraction is what exists in what? Of course, space exists in time. However, the ascertainment of this fact does not allow us to say about space and time anything more than that. This is the final conclusion and not the start of study.

The other way round, the existence of time in space allows us, as will be seen below, to reveal essential characteristics of time and to refine our understanding of space. Time looks like a more complicated phenomenon; space as a simpler and primordial one. According to this, let us begin with space.

Following the concept of Democritus, Epicurus and Lucrece, empty space should be first considered as homogenous in all regions and in the