QUANTUM REVOLUTION AND RETHINKING THE “ETERNAL TRUTHS” OF THE ECONOMIC SCIENCE

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Abstract: Quantum physics requires a rethinking of basic postulates of economic science. The article presents the fundamental ideas of the hypothesis theory “The economy of creative imagination”. Also, it identifies the reevaluation methods of mechanistic economic paradigms that were formulated through analogy with classical mechanics. The paper shows that the economic process is performed at two levels – first in individual imagination, and then in traditional workshops and factories. In individual’s imagination, real goods are “truly created” at the subatomic level. As determinism principle dominates big material objects and the uncertainty principle operates at the quantum level, the author believes that rethinking the economic science refers primarily to the discovery of laws that enable us to predict the evolution of economic phenomena within the limitations imposed by the uncertainty principle.

Keywords: Economy, quantum physics, creative imagination, conscience, the factors of production.

1. THE ROLE OF THEORETICAL PHYSICS IN THE EVOLUTION OF ECONOMICS

It has been long claimed that economics as a science has at its foundation mechanical physics. Although, other sciences such as psychology and mathematics have influenced its development, the foundation of economics is considered to be the classical mechanics “discovered” by the English scholar Isaac Newton (1642-1727). In his view, the matter is the basement of the Universe, and it can be divided into small solid and indivisible particles. There is a well-determined order in this Universe. Nothing can happen without a real reason. All events are subordinated to determinism principle. The Universe is ruled by certain objective
laws, and this means that there is some interdependence and conditioning between all phenomena and processes taking place.

Starting with Newton’s physics, other sciences such as chemistry, biology and economy had been later developed. So, departing from the mechanical interpretation of the Universe, the French scholar Francois Quesnay (1694-1774), and more importantly, Adam Smith (1723-1790) founded the Economic Science. In their perspective, all economic processes occur in accordance with specific laws, which are objective, general and eternal just as the rules of nature. Following this principle, the spiritual efforts of the individual, such as intentions, expectations, intuition, imagination or prayers, do not have any importance in the economic activity and do not influence in any way economic results.

At the beginning of the 20th century, the so-called “quantum revolution” was launched. According to its proponents, Max Planck (1858-1947), Albert Einstein (1858-1947) and Niels Bohr (1885-1947), the main element which forms the Universe is not the matter as previously thought by Newton—but energy. The energy has the property of “becoming solid”, that is turning into matter. Small particles, basic particles and sub-atoms are not solid and indivisible as the father of classical mechanics claimed. It may seem incredible but these particles, the so-called quantum, have a dual character of particle-wave. They manifest themselves depending on the person who creates them, and mainly, depend on his imagination and expectations. In concordance to these factors, the particles may appear as energetic waves or point-like particles. In time, scientists have concluded that there is no objective reality at the quantum level (as it has been thought to be in the world of big objects). But there is a “shaped” reality, “created” by the desires, imagination and expectations of the individual. In other words, “the observer creates the observed reality” in the Universe of material particles at the quantum level. The matter, in the shape of minuscule solid points, “appears” from an invisible world of eternal energies as a result of a “mystique collaboration” between human consciousness and energy waves.

Moreover, the determinism principle does not act at the quantum level anymore. The subatomic cells have a strange “behavior” and it is difficult to predict their future actions. In this case, the uncertainty principle is dominant. This principle was discovered by the German Werner Heisenberg (1901-1976) in 1927. It is understood as a physical Universe that does not exist in a well-
determined shape at the quantum level but as a “collection” of probabilities. Therefore, we ascertain the existence of two worlds, two levels of reality – the one of big objects studied by Newton mechanics) and another one of elementary particles (researched by quantum mechanics). In this case, one can probably ask if these two levels of reality form a whole which is governed by the same laws and rules, or are these two different worlds governed by different laws and principles. When trying to answer this question, the scientists and physicians reached two divergent views. In our opinion the position of those who support the laws and principles for both reality levels – elementary particles and big objects worlds (chairs, buildings, planets and galaxies) – have a more reasoned position. As the American physicians Bruce Rozenblum and Fred Kuttner stated, “the quantum mechanics is applied for everything, from baseball balls to atoms. But the technologies limit us when presenting the quantum phenomena on small objects.” [1] In regards with the correlation between classical and quantum mechanics … American authors consider that “quantum physics does not replace the classical physics…It most probably contains the classical physics as a special case.”[2]

By trying to sketch a “bridge” between the world of elementary particles and the world of small material objects (which are formed of these particles), we should underline that contemporary science and big world religions “prove” that the material Universe appeared suddenly, out of nothing – from blankness. And it will disappear some day. There is truly a huge difference between the scientific and the religious approach. “Big Bang” hypothesis states that the Universe appeared spontaneously, by itself, as a result of an explosion after which the pure energy turned into matter, free energy and information. On the other hand, religion claims that the material Universe was created by God gradually, consciously and wisely. It should be noted that in our opinion the biblical explanation of “the world’s creation” seems to be closer to the quantum physics ideas (the observer creates the observed reality) than to the Big Bang theory.

However, the process of “creating the world” continues. On Earth, it is carried out by the one who was created by “the Face and Resemblance of God (Supreme Consciousness)” as the Bible states. In this context, we should go back to ideas of Isaac Newton, Albert Einstein, Max Planck, Thomas Edison who confirmed that “Human consciousness is a part of Supreme Consciousness”, or the Consciousness which according to Religion created the material Universe.
At this point, we must ask ourselves if there is any coincidence in the fact that the Romanian equivalent for the word “brain” is “creier” and the words “creator” and “to create” have the same root.

There are several postulates in economic science. These are basic truths which are considered to be eternal. The production process, which according to the theory of economics, refers to gaining material goods and services through matching physical and intellectual efforts of the individual with turning natural resources into consumer goods. This process takes places in different workshops and factories. In this case, having some links to the concepts of classical mechanics about world, the economic science leaves aside human conscience, imagination, desires, prayers and faith and his expectations.

It is obvious that the economic resources are limited and the results of every production process are predictable and can be successfully planned or shaped in time. This was the initial view but quantum physics “forces” us to look differently at some aspects and makes us take into account not only the determinism but also the uncertainty principle.[3]

As we have seen previously, the elementary particles turn from energetic waves into solid particles but only when they interact with human consciousness. However, there occurs a real process of transformation of one thing into another at the moment of interaction. This can be applied to any production process. This circumstance and the “way” of “creating” the material Universe justifies our intention of suggesting a new perception of the production process, and more specifically, the formulation of a hypothesis according to which the so-called “production process” is a phenomena which occurs in two steps, and at both levels of reality, first, in human consciousness at the elementary particles level, and then, in traditional workshops and factories at the level of big objects.

First, we will look at the processes of production which takes place at the level of human consciousness within a theory-hypothesis which we call “the economy of creative imagination”. [4] According to our hypothesis, both the economic goods and their concrete conditions which allow them to “dress their visible clothes” are conceived and later created in the individual imagination. Secondly, the already “produced” goods in human consciousness, “dress” into their material shape, the shape that is designed for our consumption. Human
consciousness “opens the door” which leads to the inexhaustible “ocean” of pure energy- energy which creates the whole material reality through desires, expectations, imagination and faith. As W. Heisenberg observed, this ocean forms a world of possibilities, more than a world of things or real facts. Even this idea needs to be discussed in a special way, human consciousness does not only “open the door” but it “creates” goods and the expected life situations.

Thus, we can assert that the world of elementary particles (quantum world) represents a huge “storage of raw material” from which the human thought is able to produce anything it wants. To be more explicit, we will apply an analogy to the phenomena of “taking a picture”. At the first stage, through pressing a button, the wished picture is “produced” although nobody can see it yet. Only after the film is developed, and the pictures are printed, we obtain the real picture in its material form.

Now, we will present the development of the “process of production” at the level of human consciousness. We will start this analysis starting with a recent discovery of the American physician William A Tiller, who proved through experiments that wishes and imagination of individuals are real physical forces and not sterile efforts. These “intimate” efforts become known in the entire Universe because as it has been proven by the Irish physician John Stewart Bell (1928-1990), each particle of the Universe is in a permanent “link” with the other particles wherever they may be. The desires, expectations, and creative imagination spoken with faith have the property of “bringing alive”, “mobilizing” the energies of specific frequencies and arranging them into a well-defined order, “creating” this way the life situations and the expected economic goods in the quantum world.

It is important to notice that this incredible idea has been known since Ancient times, Pythagoras (560-500 B. C.) and Plato (427-347 B. C) being sure that human’s mind is able to “create” matter and to “produce” events, and situations which later are embodied in real life.

2. CONCLUSIONS

Creative imagination is the main factor of production and the most valuable capital of the individual. Due to lack of tools, in the “process of production” at the quantum level and in terms of human consciousness, we will use in this case the scientific categories investigating realities at the big objects level, and mainly at the
factories and workshop level. Starting with this premise, we conclude that “the process of production” at the level of human consciousness, takes place as: raw material – subatomic particles, tools – creative imagination, individual desires, faith and requests, work – in this case it constitutes the spiritual effort of the individual in concise form of the thought.

In our opinion the idea of the “production process” happening at two levels (quantum and big objects level) is presented in a special form in the Saint Book of Christians. Therefore, according to the Bible, in order to achieve the wished goods, the man has to work day by day but also pray. It seems that in order to receive these goods it is sufficient to choose one of two, or the man uses his muscles or intellect, or says a prayer. But it does not happen this way. The Bible asks the Christians to work and pray. Why both? We believe that prayer “actions” at the elementary particles level and work represents the physical and intellectual effort made with the help of tools at the material Universe level. Shortly, in order to achieve something, it is necessary to act at both levels.

But can some people manage to achieve everything they want without praying? We believe that the answer is easy: the individual’s creative imagination acts like a prayer, where the prayer is replaced by pictures. This cannot be proved now through experiments using scientific tools.

Although the idea that the creative imagination is a distinct production factor is just a hypothesis, scientists discovered long time ago that every economic process started with individual’s imagination. Therefore, the father of socialist doctrine, Karl Marx (1818-1883) wrote: “… the bee builds its wax cells better than many human architects. But even the most incompetent architect is different from the best bee because before building his cell, he builds it first in his head first.” [5]

It is true; Marx does not use the word imagination. However, to “build first in his head” does it mean “to imagine”?

REFERENCES