

Boris Balkh

## THE SCIENCE TODAY

Today, the leading principle of the world's science is "*Seeing is believing*" i.e. the monistic materialism. If one does not know when and how it was enacted, I will tell him.

Thousands of years ago, a curious-minded man stood on the sea coast, looked at its vast and bethought oneself. He turned back. Had a look at the green field, reaching the horizon, and decreed the first scientific theory "*The Earth is flat!*"

Plenty of time has passed since then. That theory was slowly and with effort refuted and rejected but the principle has remained!

Knowledge has a pyramidal structure. Following the principle "*Seeing is believing!*", modern materialistic science is coming to know the nature and is drawing knowledge upward in the ranks of the pyramid. It has already reached the very top of the pyramid but It cannot and It will not move from there until It "has seen" that Idealism is on the top. It will not move until It "has understood" and "accepted" the idea that its all efforts and achievements are made to prove and decree the supremacy of Idealism.

Modern scientists, inspired by their own achievements and the desire to climb up the top of the knowledge pyramid, draw conclusions on fundamental issues concerning the Universe's structure and its construction, which are beyond the powers of materialism.

Surprising is the ease with which the international scientific community places trust in some hypotheses in sciences like Physics, Astronomy and Mathematics and how they are becoming final conclusions and theories just because they are accepted to be "obvious truths".

It is due to the indefiniteness and inexactitude of fundamental terms and concepts in modern science which sound too conditional and too vague. In my opinion, they can be clearer and more accurate. Thus, for example:

- **Physics – the science of physical systems and their interaction!**

All things and events outside this definition are not Physics.

- **Physical system is one that has its own physical nucleus!**

These are: elementary particles, atoms, planets, comets, stars, black holes, galaxies, etc.

- **The physical system consists of nucleus and field!**

- **Chemistry – the science of chemical systems and their interaction!**

- **Chemical system is one that does not have its own physical nucleus!**

These are molecules and compounds!

Physical and chemical systems are governed by different laws of nature!

- **Mechanics – the science of the movement of chemical systems!**

Now I will try to show three of the "obvious truths" firmly settled in the worldview of modern scholars.

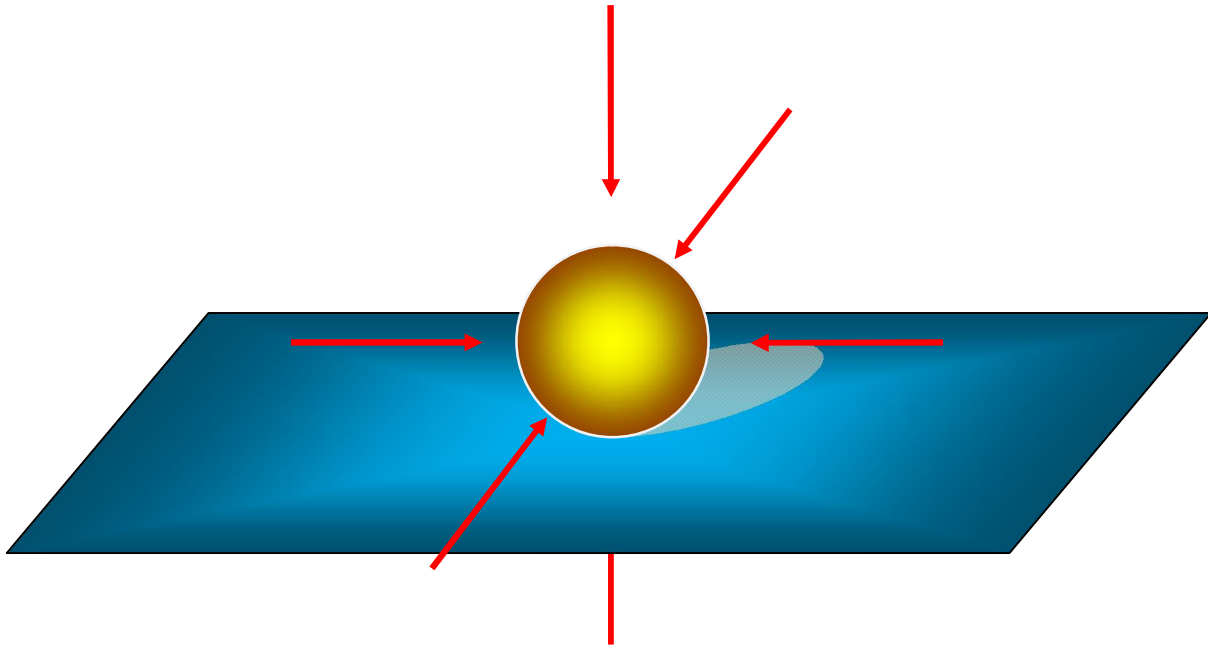
The first one is their explanation, their answer to the question: "Why do heavenly bodies stay in orbit?" And their answer is the following.

Heavenly bodies-satellites do not fly up in space because gravity attracts them to the central heavenly body. But they do not fall over it because the centrifugal force, when they go round in orbit, aims at moving them away from the central heavenly body. Thus, the two forces, through their counteraction, affect the satellite and keep it in orbit.

Inexplicable and unacceptable in the above explanation is to compare two incomparable quantities. On one hand the paramount physical force – gravity, on the other hand the minor mechanical force – centrifugal one. In comparison between physics and mechanics, physics is always a reason, and mechanics is always a consequence. It is impossible the reason and the consequence to be equally positioned. Could I and my shadow be equal? Equal to me can be only another person and equal to gravity can be another primary physical force.

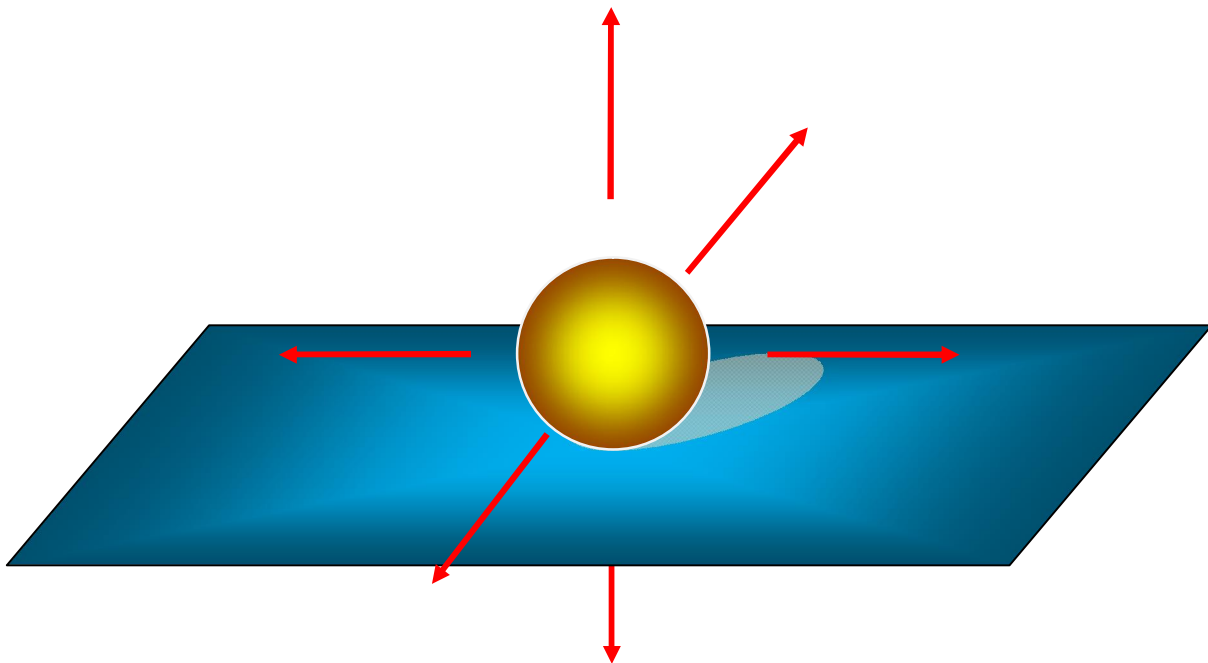
In this case monistic materialism is powerless. In order to properly answer the question "Why do heavenly bodies stay in orbit?" we should turn to dualistic idealism. It claims that the Universe consists of two perfect opposites which while interacting carry out their propensities.

One propensity is **contraction of the field**, whose counterparts in modern science are the **nuclear powers – the strong interaction in physics and the gravity in astronomy**.



CONTRACTION OF THE FIELD,  
FROM THE INTERSTELLAR VAKUUM TO THE NUCLEUS.

Another propensity is the **extension of the field**, whose counterparts in modern physics are the weak forces – the weak interaction, but in astronomy *dark energy*.



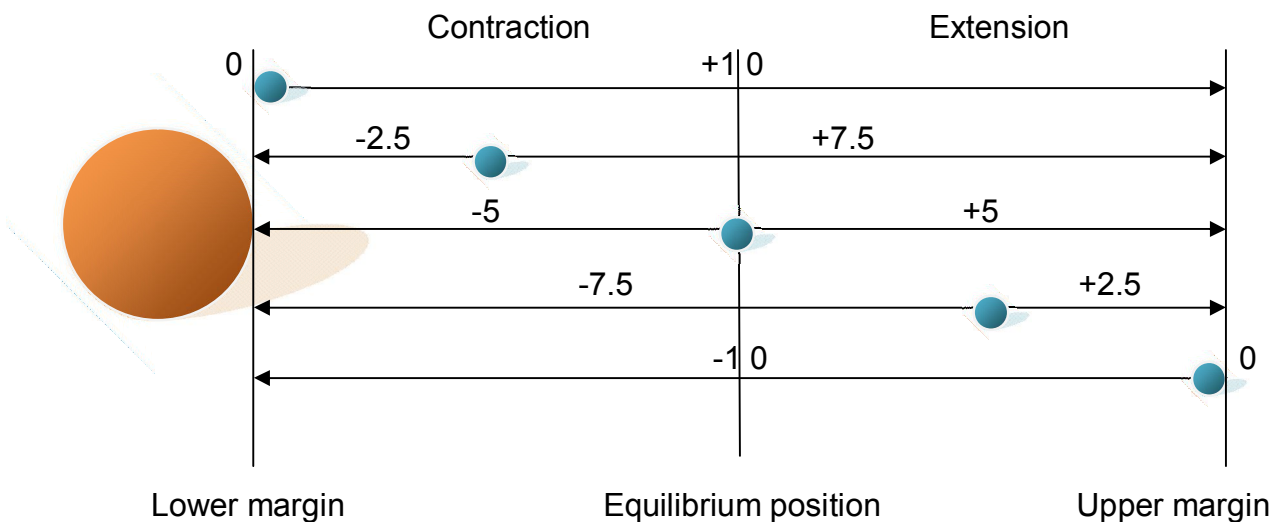
EXTENSION OF THE FIELD,  
FROM THE CORE TO THE INTERSTELLAR VAKUUM.

The reciprocal action of physical propensities – contraction and extension, on moons, is the reason for them to stay in orbit – in their equilibrium position toward the central heavenly body.

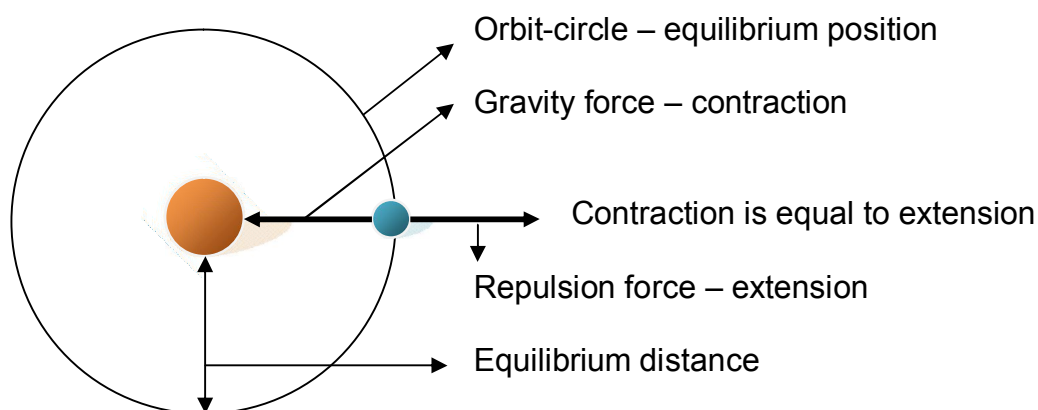
What is equilibrium position?

Fields of physical systems have different intensity. For that reason, **in interaction, two physical systems put their fields together and establish the equilibrium distance between each other, where the intensity between their fields is zero and their fields try to fix their nuclei at that distance.**

The alteration of ratio between the propensities of contraction and extension, in the interaction between two physical systems as a result of the radial motion of the smaller one from the lower to the upper margin of the field of the larger one, looks this way:



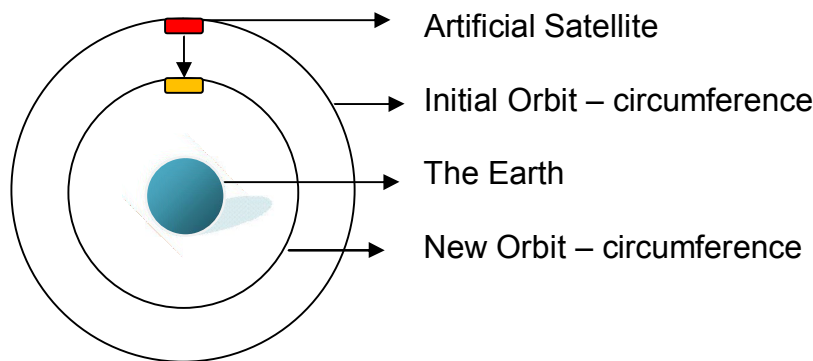
If two physical systems are at the equilibrium distance between each other, the smaller one – the satellite will orbit the larger one and its orbit will be a circle – its equilibrium position towards the larger one.



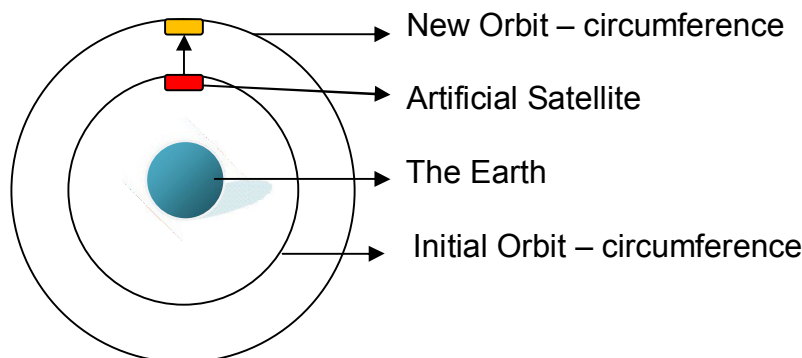
The interaction between two physical systems differs from the interaction between a physical and a chemical system. In the second interaction, **with artificial satellites valid is the current scientific opinion, that the gravity and the centrifugal force keep them in orbit.**

This can be illustrated by examples of changing the orbits of an artificial and a natural satellites.

If an artificial satellite goes round in an orbit and we move it closer to Earth, it will begin going round in a new orbit whose circumference will be smaller than the original one. But in case of a mistake, it may fall to Earth.

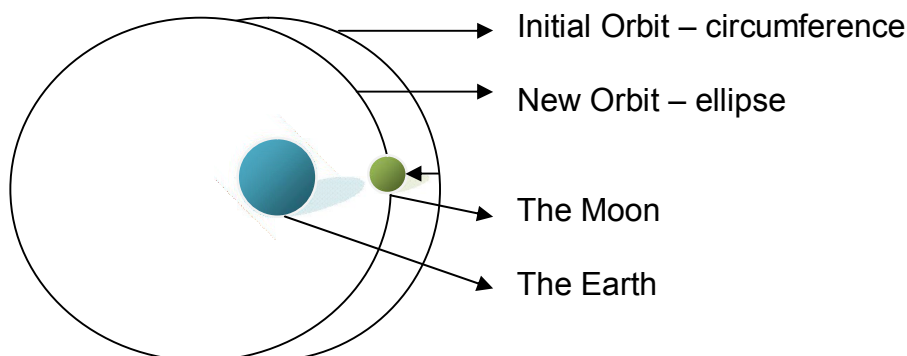


If an artificial satellite goes in orbit and we move it further from the Earth, it will start to go in a new orbit whose circumference will be bigger than the original. But in case of a mistake, it will fly into Space.

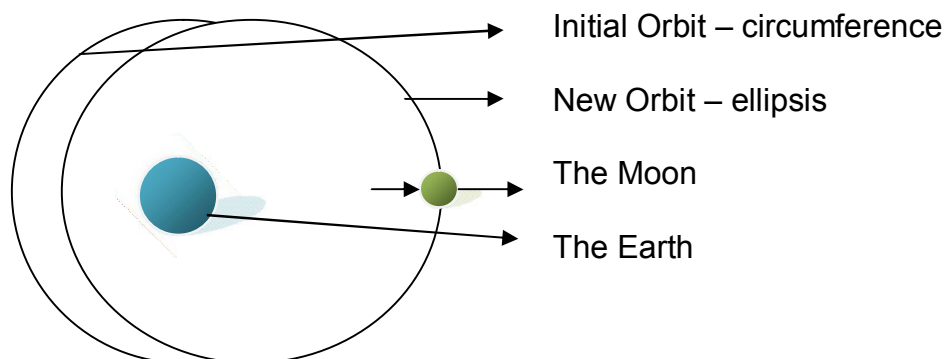


In all three situation, the orbit of the artificial satellite will be a circumference.

If we move the Moon towards the Earth, it will start going round the Earth in a new elliptical orbit, whose closest point to Earth will be the distance from the initial orbit, with which we have moved it, but the farthest one will be far beyond the initial orbit, at the same distance. Moving the Moon, it cannot fall on Earth, even in case of a mistake.



If we move the Moon far away from the Earth, it will begin to go round the Earth in a new elliptical orbit, whose most distant point from Earth will be the distance from the initial orbit, with which we have moved it, but the closest one will be inside the initial orbit, at the same distance. In moving the Moon farther from Earth, even if a mistake is made, it cannot fly into Space.



In a long time, the elliptical orbit of the Moon, in both cases will change and it will again start going round the circle of its equilibrium position towards the Earth.

**The length of the orbit of a physical system is equal to the length of the circumference of its equilibrium position.**

The examples with the artificial satellites have occurred and have been verified, and the examples with the Moon are fictitious. But if we cannot move the Moon, the examples may become true if we look at comets in the Solar System with their elliptical orbits.

The second example of "obvious truth" is the duality of light wave – particle.

The explanation of scientists that light can be seen both as a wave and as a particle is correct but it is not explained **why that is so**.

Here it is necessary to recall the construction of a physical system.

**A physical system consists of nucleus and field and the duality of light is determined by the two parts of the physical system.**

**Particle is the physical nucleus and the wave is the field of the nucleus in its third motion.**

**The speed of core movement determines the wave length, and the speed of field rotation in the third move determines its frequency.**

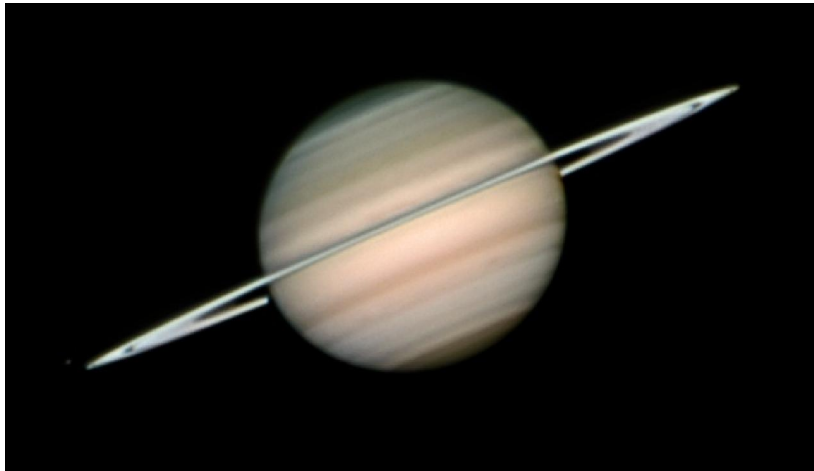
Today it is known that celestial bodies make two major moves – diurnal rotation round their own axis and annum circling round the central celestial body. But physical systems make also a third motion – they go round their own axis which coincides with the orbit.

The third move is a reason for what the axes of diurnal rotation of the planets in our Solar system to have a different incidence towards their orbital planes, and Venus and Uranus have even rotated themselves 180 and 270 degrees towards the ecliptic. Because

of the third motion, the Earth has changed its magnetic poles several times and today they do not coincide with the axis of its diurnal rotation. The third motion is the reason for climate changing, now and before.

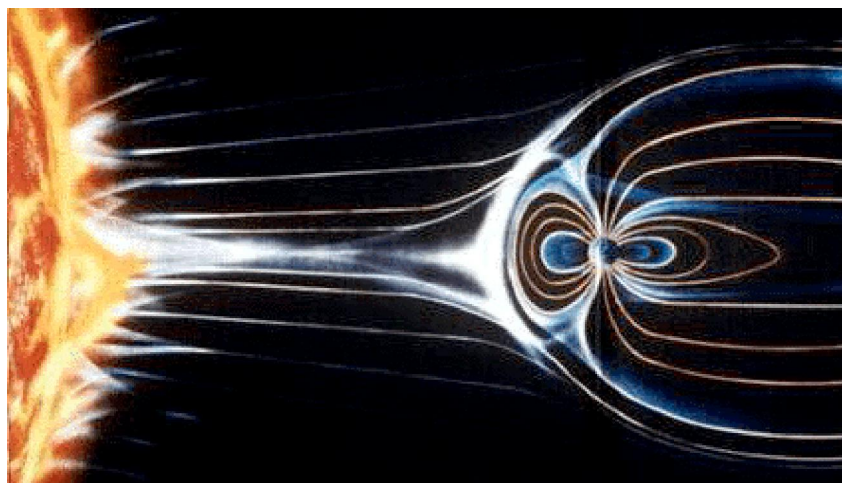
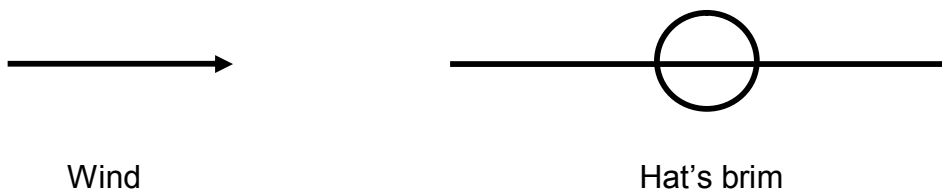
What is the third motion?

We know from astronomy that almost all the planets in the Solar system have rings. Most clearly, they can be seen in Saturn. This shows that their planet equators have their own continuation in the shape of their fields.



<http://antwrp.gsfc.nasa.gov/apod/image/0903/saturnepicdumidicouleurbis.jpg>

I will express my arguments in symbols. The nucleus will be a human head, the field – a squash-hat and the tension between the two fields – headwind.



<http://sept.hit.bg/windsun.gif>

If the wind is not very strong and the hat's brim is parallel to the direction of the wind, the hat will stay on your head. But if the wind is strong, or if the man raises his head, the

wind will hit the front edge of the brim upward and will blow the hat off from the man's head.

The same thing will happen to the earth's field, if for some reason solar activity increases significantly. The earth's field will rotate itself with its pole towards the Sun and it will be blown out with everything located on earth's surface and it will turn into a white sheet of paper, on which a new chapter of the evolution of matter will be written down.

If the Earth's equator is in a plane with the orbital plane, there will not be any seasons on Earth. The Green belt will be meeting the polar caps of the widths of southern Europe. That was the situation during the last glacial period.

If the equator is inclined to the Earth's orbit from 20 to 25 degrees, as it is now, three green poles are formed, an equatorial one and two temperate ones, separated by two desert belts.

If the incidence starts to increase, climate will be getting warmer and deserts will be expanding to the equator and mostly toward the temperate zones, and the temperate belts will be moving towards the polar circles. Polar caps will get contracted and a considerable part of their ice will melt. The duration of winter and summer will increase at the expense of spring and autumn, and temperatures will become higher in the summer and lower in the winter.

If the incidence keeps its increase, because of the third motion, it will come the moment when the Earth will rotate at 90 degrees and stand with the pole to the Sun. After some time it will rotate at 180 degrees and the equator will coincide with the orbital plane, but the Earth will be rotating conversely, and the Sun will be rising from the west and will be setting in the east. Magnetic poles will have changed their places. The Earth's magnetosphere will change. Today Venus is in this position.

After a while the third motion will rotate The Earth at 270 degrees, with the opposite pole to the Sun. Today in this position is Uranus.

And when the Earth describes a complete circle along the meridian and rotates at 360 degrees, the equator will again coincide with its orbital plane, and the Sun will again be rising from the east.

But then significant changes would have been on the Earth. Gravity will be reduced. So, will be the value of magnetosphere. The conditions on the Earth's surface will be different from these at the present time. It follows as a logical consequence, that both animal and plant life on Earth will be new and modified.

Fortunately, solar activity is still getting higher at „normal” range and only causes disruption in transport, power supply, communications and human health. But with the powerful stars that have no chemical matter, things are different.

When there is concentration of stars and several go round a central one, those that circle about, constantly change their position to each other. Thus, their influence on each other changes too, as a consequence of permanent juxtaposing of their fields and changing the tension.

As they are highly tense physical systems and their radiation is powerful, symbolically, this means that hat is firmly attached to a person's head and the wind from



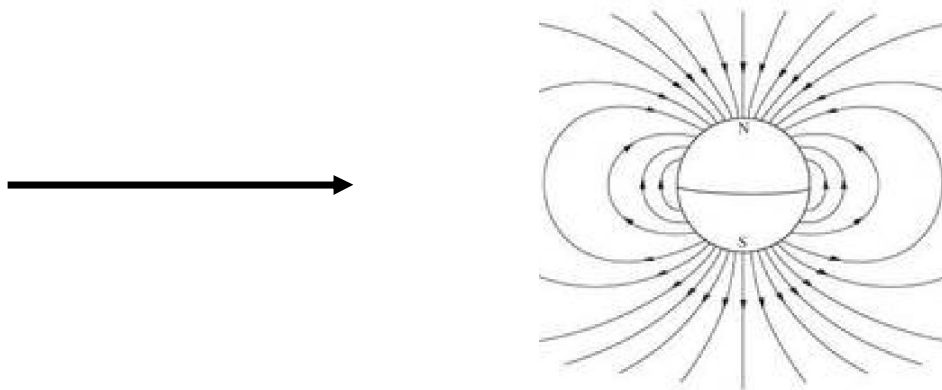
the central star cannot blow it out. But if behind any of the stars passes another one, then the brim of the hat will be put to double pressure. In front, from the central star upwards, and at the back, from the third star downwards.

In the Universe everything is in fine disequilibrium and any abrupt change leads to serious consequences. In our case, it is sufficient only a slight change of the incidence of the hat`s brim and an action with geometric progression will supervene on. The incidence of the field of the affected star will change with increasing speed, and that will provoke a corresponding enhancement of its radiation. In fact, it will be a supernova explosion.

With planets, the third motion is made slowly and smoothly, imperceptibly for us. With stars, it is made quickly and sharply, visibly to us but only once. In micro world, the third motion is made sharply, quickly and repeatedly. Therefore, there can be reported its frequency, i.e. how fast the field of the nucleus will rotate towards the “wind direction”, consecutively in positions: a right rotation equator, north pole, reverse rotation equator, south pole and all over again.

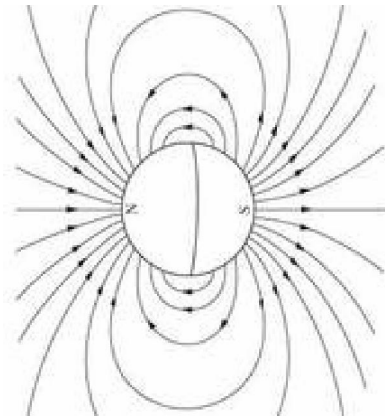
- In position of equator with right rotation to “wind from the left”, the physical system will not radiate.

Expressed by the sine wave graph, it will be a zero point of intersection.



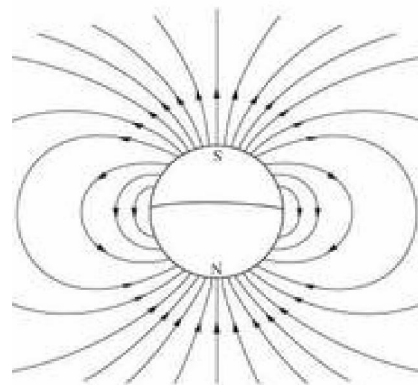
- In position north pole to “wind from the left”, the physical system, besides its own radiation, will let the solar wind go through it, because magnetic-force lines of the field coincide at its poles coincide with the direction of the solar wind, and the radiation will be from the right, from the south pole.

Expressed by the sine wave graph, it will be its highest point, plus.



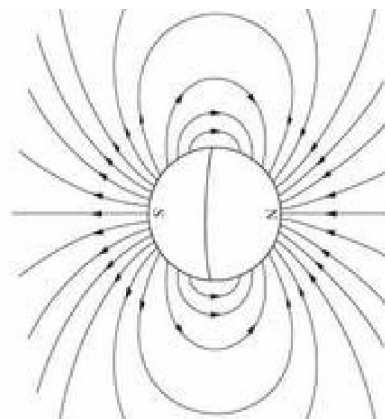
- In position equator with reverse rotation to “wind from the left”, the physical system will not radiate.

Expressed by the sine wave graph, it will be zero point of intersection.

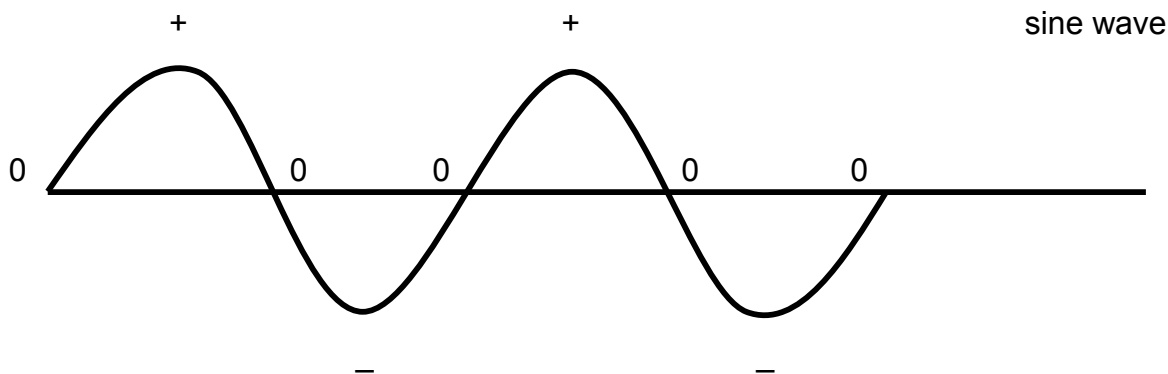


- In position south pole to “wind from the left”, the physical system will radiate through the south pole and it will be “blocked” for the solar wind, because the fields’ s magnetic lines of force at its poles are directed against the direction of the solar wind.

Expressed by the sine wave graph, it will be the lower point of the sine wave, minus.



The constant rotation and multiple repetition of the above four positions of physical systems, are their third motion.



As the physical system consists of nucleus and field, **the concomitant radial motion of the nucleus of the photon to its equilibrium position and the third motion made by its field, are the reasons for the duality of light wave-particle in modern physics.**

The speed of the third movement is the wave frequency, and the speed of radial motion of the nucleus toward its equilibrium position determines the wave's length.

**Conformity to the simultaneous implementation of these two motions, in modern physics is the electromagnetism, the energy.** Electricity is in solid matter and magnetism – in the air. The direction of nucleus' motion determines the type of energy:

- positive – disintegration
- negative – synthesis.

The “third obvious truth” is the Big Bang.

As I wrote at the beginning, today, the leading principle of the world's science is “*Seeing is believing*”, but some scholars opined that in order to overcome serious problems in modern science, especially cosmology, new physics is required. This is because over the years in science are admitted by four interrelated fundamental errors.

The first one is incorrectly formulated Doppler effect, which now reads:

*"When the spectral lines of light are shifted to the violet end of the spectrum, the light source and observer are approaching each other.*

*When the spectral lines of light are shifted toward the red end of the spectrum, the light source and the observer are moving away from each other. "*

This is the first – the fatal error.

The second error that "legalized" first and "ban" on the next generations of scientists to revise and reformulate the Doppler effect is unfounded assertion of Einstein that light in vacuum is absolute and is not influenced by anything but speed is a constant value and is limit in the universe.

These two errors, forced next generations of scientists to do and they their predetermined mistakes.

In the early twenties of the 20th century, Edwin Hubble, based on scientific fact violet and red shift of spectral lines of light and the Doppler effect "found" that the galaxies are moving away from each other and the universe is expanding. As a consequence, later George Gamow developed the idea for the Big Bang, which is now the leading theory in science.

In the experiment, made to establish the Doppler effect, as in many other experiments, the participants are three: contributor, sufferer, and observer. As it can be seen, even a quick grammatical analysis will lead us to the correct deduction that the variable quantity is the sufferer – the sound or light. But Doppler's logic misled him and he came to a wrong conclusion, made an incorrect inference that the effect refers to the contributor – the source of sound or light.

I will give an example with the interaction between two physical systems – a star and a photon, emitted by the star. According to the understanding of modern science, two nuclei repel. In connection with the Big Bang model and the expanding Universe, the question will be: "What will repel another away from itself, the star nucleus – the photon or the photon – the star nucleus?" The answer is known, but unexplainable is the inference that scientists draw when analyze captured light from a star (or galaxy) – that the star (or the galaxy) is moving away.

The Doppler Effect has to be reformulated. About light – this way, as an example:

**Violet displacement of spectral lines of light is a sign and a measure to retard its motion and draw the light closer to its equilibrium position towards the source of its radiation.**

**Red displacement of spectral lines of light is a sign and a measure to retard its motion and move the light away from its equilibrium position towards the source of its radiation.**

In interaction between a star and a photon, the photon, in its effort to counterbalance, will simultaneously make radial motion to establish on equilibrium position and the third motion.

